

# nord electro 7

S E M I   W E I G H T E D   W A T E R F A L L   6 1

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## USER MANUAL

Nord Electro 7 61

*English*

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Edition: D



**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

**ATTENTION:** POUR EVITER LES RISQUES DE CHOC ELECTRIQUE, NE PAS ENLEVER LE COUVERCLE.

AUCUN ENTRETIEN DE PIECES INTERIEURES PAR L'USAGER. CONFIER L'ENTRETIEN AU PERSONNEL QUALIFE.

**AVIS:** POUR EVITER LES RISQUES D'INCIDENTE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU L'HUMIDITET.



The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

*Le symbole éclair avec le point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de "voltage dangereux" non isolé d'ampleur suffisante pour constituer un risque d'électrocution.*



The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

*Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter l'utilisateur de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instructions accompagnant l'appareil.*

Instructions pertaining to a risk of fire, electric shock or injury to persons.

## IMPORTANT SAFETY INSTRUCTIONS

### SAVE THESE INSTRUCTIONS

**Warning** - When using electric products, basic precautions should always be followed, including the following:

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



### Additional Safety Information

No naked flame sources, such as lighted candles, should be placed on the apparatus;

Do not use the apparatus in tropical climates.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

The mains plug is used as the disconnect device and shall remain readily operable.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées;

L'appareil n'est pas destiné à être utilisé sous un climat tropical.

L'appareil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et de plus qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Lorsque la prise du réseau d'alimentation est utilisée comme dispositif de déconnexion, ce dispositif doit demeurer aisément accessible.

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# Congratulations on your purchase!

To get the most out of your new instrument, please take a minute to read about our free sounds and downloads, all of which can be found at [nordkeyboards.com](http://nordkeyboards.com)



## OS Updates

The latest versions of the operating system for your product can always be found on [nordkeyboards.com](http://nordkeyboards.com)



## Nord Sound Libraries

By purchasing a Nord product, you get free access to a large selection of high-quality sounds and samples. The Nord Sound Library consists of the Nord Piano Library and the Nord Sample Library as well as collections and exclusive Signature Sound banks created by renowned Nord artists from around the world.



## Nord Sound Manager

For backup, transferring and organizing new sounds from our Sound Libraries to your Nord you will need to download the Nord Sound Manager.



## Nord Sample Editor

The Nord Sample Editor let's you easily record or drag and drop audio-files and enjoy automatic mapping with pitch detection, simple looping and instant transfer to your Nord instrument.

# TABLE OF CONTENTS

<b>1 INTRODUCTION</b> .....	7	Pipe Organ.....	17
Thank You!.....	7	Pipe Vibrato/Chorus.....	17
Features.....	7	<b>B3 Bass</b> .....	17
Nord Online.....	7	Rotary Speaker.....	17
About The User Manual.....	7	<b>5 PIANO SECTION</b> .....	18
Reading The Manual In PDF Format.....	7	On/Off And KB Zone.....	18
OS Upgrades.....	7	Level And Exp Ped.....	18
Free Sounds.....	7	Octave Shift.....	18
Custom Samples.....	7	Sust Ped.....	18
Restoring The Factory Presets.....	7	About The Piano Sounds.....	18
Disclaimer.....	7	About Piano Size.....	19
<b>2 OVERVIEW</b> .....	8	About String Resonance.....	19
The Nord Electro 7 Panel.....	8	Category And Model.....	19
Master Section.....	8	List View.....	20
Organ Section - page 14.....	8	<b>KB Touch</b> .....	20
Piano Section - page 18.....	8	String Resonance.....	20
Synth Section - page 22.....	8	<b>Unison</b> .....	20
Program Section - page 28.....	8	<b>Dynamic Compression</b> .....	20
Effects Section - page 33.....	8	<b>Nord Triple Pedal</b> .....	20
<b>3 GETTING STARTED</b> .....	10	Sustain And Half Pedaling.....	20
Hooking It Up.....	10	Sostenuto.....	20
Panel Controls.....	10	Soft Pedal.....	20
Push Encoders And Knobs.....	10	<b>Timbre</b> .....	21
Buttons.....	10	Acoustic Piano Timbre Settings.....	21
Button Hold Functions.....	10	Electric Piano Timbre Settings.....	21
The Shift Button.....	10	Clav Timbre Settings.....	21
Master Level.....	10	<b>6 SYNTH SECTION</b> .....	22
The Synth Vibrato Button.....	10	On/Off And Level.....	22
Soft Buttons.....	11	KB Zone.....	22
Programs.....	11	Octave Shift.....	22
Select A Program.....	11	Sust Ped.....	22
Program List View.....	11	Voice Mode.....	22
Edit A Program.....	11	Glide.....	22
Select A New Piano Sound.....	12	Dynamics.....	22
Turn Off Memory Protection.....	12	<b>Vibrato</b> .....	23
Store A Program.....	12	Synth Vibrato Button.....	23
Live Mode.....	12	<b>Sound Library</b> .....	23
Layer With A Synth Preset.....	12	Selecting A Preset.....	23
Focus And Activate Effects.....	13	Wave User (Shift+Sound Library Dial).....	23
Create A Split.....	13	About Presets.....	23
Set Up A Split Cross-Fade (X-Fade).....	13	<b>Samples</b> .....	23
Using The Organ.....	13	<b>Analog</b> .....	23
<b>4 ORGAN SECTION</b> .....	14	Analog Waveforms.....	23
About The Organ Section.....	14	Oscillator B Settings.....	24
On/Off And Kb Zone.....	14	<b>FM</b> .....	24
Level And Exp Ped.....	14	Body And Spectra.....	24
Octave Shift.....	14	Focus And Velocity.....	24
Sustped.....	14	FM Algorithms.....	24
Drawbars and Presets.....	15	Additional FM Parameters.....	25
Preset 1 And 2.....	15	Page 1 - Balance.....	25
Lock.....	15	Page 1 - Feedback.....	25
Drwb Live.....	15	Page 1 - OP1 and OP3.....	25
Swell pedal.....	15	Page 2 - Envelope Keyboard Tracking (KbTrk).....	25
The B3 Model.....	15	Page 3 - Modulation Keyboard Scaling.....	25
B3 Drawbars.....	15	<b>The Envelopes</b> .....	26
Deep Chorus.....	16	Attack.....	26
Percussion.....	16	Decay.....	26
The Vox Model.....	16	Sustain (Shift+Decay).....	26
Vox Drawbars.....	16	Release.....	26
Vibrato.....	16	Envelope Amount (Env Amt).....	26
The Farf Model.....	17	<b>Filter</b> .....	26
Farf Registers.....	17	Key Tracking (KbTrk).....	26
Vibrato.....	17	Key Tracking Settings.....	27
Soft B3.....	17	Filter Resonance.....	27
		Filter Drive.....	27
		<b>7 PROGRAM</b> .....	28

Transpose On/Set .....	28	Local Control On/Off.....	39
KB Split .....	28	<b>10 NORD SOUND MANAGER</b> .....	40
Keyboard Split Settings .....	28	About Nord Sound Manager .....	40
Choosing A Split Position.....	28	System Requirements.....	40
Split X-Fade Settings .....	28	<b>11 NORD SAMPLE EDITOR 4</b> .....	41
Store .....	29	About Nord Sample Editor 4 .....	41
Storing A Program .....	29	System Requirements.....	41
Naming A Program (Store As..) .....	29	<b>12 MENUS</b> .....	42
Shift/Exit Button .....	29	System Menu .....	42
Expression Pedal Assign .....	29	1 - Program Memory (Memory Protect).....	42
Live Mode .....	30	2 - Global Pitch .....	42
Num Pad (Numeric Pad).....	30	Transpose.....	42
Program Buttons .....	30	Fine Tune .....	42
What Is A Program? .....	30	3 - Brightness.....	42
Program .....	30	Display.....	42
Program List, Abc And Cat.....	30	LEDs .....	42
Page/Cat And Bank.....	31	4 - Audio L/R Output .....	42
Aux KB.....	31	5 - Version And Model Info .....	42
About Pedals And Other Devices In Aux KB Mode.....	31	Sound Menu .....	42
Organize Mode.....	31	1 - Program Level.....	42
Enter The Organize View .....	31	2 - Rotary Movement.....	42
Swap Two Programs .....	31	Horn Speed .....	42
Move A Program .....	31	Horn Acceleration .....	42
MIDI LED Indicator.....	32	Rotor Speed.....	42
<b>8 EFFECTS</b> .....	33	Rotor Acceleration .....	42
Overview .....	33	3 - Rotary Horn/Rotor Level.....	43
Activating Effects And Global Mode.....	33	Balance .....	43
FX Focus And FX Bypass .....	33	4 - Organ Keyboard Trigger Point .....	43
Expression Pedal Control.....	33	5 - Organ B3 Settings.....	43
Mod 1 .....	33	Tone-Wheel .....	43
Pan 1 & 2 .....	33	Key Click .....	43
Trem (Tremolo).....	34	Key Bounce.....	43
RM (Ring Modulation) .....	34	6 - Organ B3 Percussion .....	43
Mod 2 .....	34	Normal Volume .....	43
Wide.....	34	Soft Volume .....	43
Phaser.....	34	Slow Decay .....	43
Flanger .....	34	Fast Decay .....	43
Chorus .....	34	7 - Piano String Resonance Level.....	43
Vibe.....	34	8 - Piano Pedal Noise.....	43
Ensemble .....	34	Enable .....	43
Equalizer/Amp Sim.....	34	Level.....	43
Equalizer .....	34	9 - Piano And Sample Info.....	43
Amp Sim .....	35	Piano .....	43
Amp Models.....	35	Sample.....	43
Compressor .....	35	MIDI Menu .....	43
Delay .....	35	1 - MIDI Channels.....	43
Ping Pong .....	35	Local Control .....	43
FB Filter .....	35	Global Channel .....	44
Analog Mode.....	36	Aux KB Channel .....	44
Global Reverb .....	36	2 - MIDI Send/Receive Mode.....	44
Reverb Types.....	36	Program Change .....	44
Bright/Dark And Chorale.....	36	Control Change .....	44
Layer Send.....	36	Device Change .....	44
Rotary Speaker .....	36	Type.....	44
Rotary Speed Control.....	36	3 - MIDI Settings .....	44
Fixed Angle.....	36	Transpose At .....	44
Microphone Positions.....	37	Output Velocity .....	44
Drive.....	37	Pedal Menu .....	44
Rotary Speaker And Reverb .....	37	1 - Expression Pedal .....	44
Rotary Menu Settings.....	37	Type.....	44
<b>9 MIDI</b> .....	38	Gain.....	44
MIDI Functions.....	38	2 - Sustain Pedal .....	44
Global Channel.....	38	Type.....	44
Recording A Nord Electro 7 Performance To A MIDI Sequencer Or DAW.....	38	Single/Right .....	44
MIDI Messages.....	38	Middle .....	44
Note On/Off.....	38	Left.....	44
Controllers.....	38	3 - Rotary Ctrl/Foot Switch.....	45
Aux KB MIDI Channel .....	38	Type.....	45
Program Change .....	39	Switch A .....	45
		Switch B.....	45
		<b>I CONNECTIONS</b> .....	46
		Audio Connections.....	46
		Headphones.....	46

Left Out/Mono & Right Out.....	46
Monitor In.....	46
MIDI Connections.....	46
MIDI In.....	46
MIDI Out.....	46
USB Connection.....	46
Pedal Connections.....	46
Sustain Pedal.....	46
Expression Pedal.....	46
Rotary Ctrl/Foot Switch.....	46
II APPENDIX: MIDI CONTROLLER LIST.....	47
III INDEX.....	49

# 1 INTRODUCTION

## THANK YOU!

Thank you for choosing the Nord Electro 7! This instrument combines our acclaimed *Organ* and *Rotary Speaker* models with a versatile *Piano* section and a powerful *Synth* featuring both Virtual Analog and FM synthesis as well as Samples from the Nord Sample Library.

With an intuitive layout, extensive yet easy-to-use features and state of the art sounds, the Nord Electro 7 has been designed to cover all needs for the modern keyboard player or producer. We hope it will keep your music inspired for years to come!

## FEATURES

The Nord Electro 7 has the following main features:

- Organ section based on the Nord Organ 3 with B3, Soft B3, Vx, Farf and Pipe models.
- Piano section with *Acoustic Grand* and *Upright* pianos, *Electric* pianos, *Clavinet* and *Harpichord* sounds and a *Digital* category including rich sounding piano layers. The *Misc* category provides a selection of expressive mallet sounds.
- Synth section with Samples, Virtual Analog and FM synthesis, dual envelopes and a resonant low-pass filter.
- Extensive Preset Library for Synth sounds.
- Comprehensive and independent Effects per section.
- Expression Pedal assign feature for pedal control over levels and effect parameters.
- Seamless Transitions: Sustaining notes are not cut off when changing programs.
- Keyboard split functionality with optional split cross-fade settings.

## NORD ONLINE

On the website [nordkeyboards.com](http://nordkeyboards.com) you will find:

- » Information about the Nord Electro 7 and other Nord instruments
- » Latest Operating Systems for download
- » Free software: Nord Sound Manager and Nord Sample Editor 4
- » Nord Piano and Sample Library sounds for free download
- » Nord Newsletter: Get updates about OS releases, new sounds and software
- » Nord Live sessions and other videos
- » User Manuals for download

Follow Nord Keyboards on Facebook, Instagram, X and YouTube. Feel free to tag your content with our official hashtag #iseenord.

## ABOUT THE USER MANUAL

This manual is organized primarily as a reference guide detailing all of the available features of the instrument. You will also find practical examples of how to use these features in a musical context.

## READING THE MANUAL IN PDF FORMAT

This manual is available as a digital PDF file. It can be downloaded from the Nord Electro 7 section on our website.

## OS UPGRADES

The latest OS (Operating System) version for the Nord Electro 7 is always available for download from our website. Please visit our website from time to time or subscribe to the Nord Newsletter, to make sure you have the latest version in your unit.

## FREE SOUNDS

Since the Nord Electro 7 is designed as an open system, each and every piano and sample in the Nord Electro 7 can be replaced. This is done using the *Nord Sound Manager* application which is available as a free download from our website.

The Nord Electro 7 is compatible with the continuously expanding Nord Piano Library and the Nord Sample Library. When new sounds become available, these can be download for free from the Sound Libraries section of our website or from within the Nord Sound Manager.

## CUSTOM SAMPLES

Use the *Nord Sample Editor 4* – available as a free download from our website – for quick and easy creation of custom sample instruments. Whether creating a fully mapped instrument, a simple FX sound or assigning a sampled intro for a song to a single key, the Nord Sample Editor 4 opens up many possibilities together with the Nord Electro 7.

## RESTORING THE FACTORY PRESETS

Factory programs, samples and pianos are available as individual Nord Sound Manager backup files for download from our website. There is also a complete backup of the entire instrument and its factory content, if it needs to be restored to its original state at some point.

## DISCLAIMER

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# 2 OVERVIEW



## THE NORD ELECTRO 7 PANEL

The Nord Electro 7 front panel is laid out with all related features and controls logically grouped in individual *sections*. Let's have a quick look, from left to right:

### MASTER SECTION

At the far left is the Master Level control for setting the overall volume level, as well as a Synth Vibrato button for controlling the Synth section Vibrato in real time. Read more about this feature on page 23.

### ORGAN SECTION - PAGE 14

The dedicated *Organ* section, with its nine LED equipped drawbars for real-time adjustments to the Organ sound, uses our latest B3 tonewheel Organ model, as found in the acclaimed Nord Organ 3.

The B3 model is based on the analysis of the signals generated by each of the 91 spinning discs inside several original instruments, and its virtual circuitry reacts not only to the panel settings but also to the real time performance, simulating important foldback, compression and energy robbing characteristics.

The Rotary Speaker simulation, also derived from the Nord Organ 3, brings Organ sounds to life with remarkable realism, and comes with 3 distinct Microphone Positions for variations in tonal character and stereo movement.

Two carefully modelled emulations of famous transistor organs from the 1960's – the *Vox* and the *Farf* – are also included. Finally, there is a "Principal" Pipe model that delivers a wide range of versatile pipe/church organ sounds, as well as a Soft B3 model which provides the sound of the B3 organ without key click and other artifacts.

The Organ section comes with two distinct drawbar Presets, as well as a drawbar Live button for instant use of the physical drawbar positions.

### PIANO SECTION – PAGE 18

The Nord Electro 7 includes a wide range of piano and keyboard sounds from the ever-growing Nord Piano Library right out of the box, and new sounds are regularly made available free of charge on [www.nordkeyboards.com](http://www.nordkeyboards.com).

The Piano section has controls for adjusting the keyboard velocity response or quickly altering the character of a piano sound using the dedicated Timbre, Dynamic Compression and Unison settings.

### SYNTH SECTION – PAGE 22

The Nord Electro 7 Synth section delivers a vast range of sounds, thanks to its dedicated Virtual Analog (VA), FM (Frequency Modulation) and Sample engines.

The Virtual Analog Synth features dual oscillators, dual envelopes and a resonant filter, and the FM Synth comes with a selection of different Algorithms and creative controls for fine tuning the sound. A large library of Presets provides ready-to-go sounds from a wide range of categories.

The Nord Sample Library gives Electro 7 owners access to a huge, free library of world-class sounds, including the famous vintage Mellotron and Chamberlin sounds, the acclaimed Spitfire String Quintet samples and much more. A large selection of samples are included from the factory, and their character and response can be adjusted in a variety of ways, directly from the panel.

In addition, the Mono and Legato options, with adjustable Glide (portamento) amount allows for a variety of classic monophonic synth sounds to be recreated.

### PROGRAM SECTION – PAGE 28

A *program* on the Nord Electro 7 contains settings for the Organ, Piano and Synth sections, as well as for effects and any split or transpose configurations. The middle area of the instrument – the *Program* section – is where programs are navigated and stored, and various performance features and settings menus are accessed. All this is aided by the color display, which also shows details about the selected sound for each section.

### EFFECTS SECTION – PAGE 33

The *Effects* section puts a wide selection of classic effects at your fingertips. Each section – Organ, Piano and Synth – on the Nord Electro 7 has its own, dedicated effects chain, giving full freedom to creative sound design when combining multiple sounds. Most of the effect parameter controls can be controlled by an attached Expression Pedal, allowing for extensive real-time control during a performance.

The *Mod 1* and *2* units provide essential modulation effects such as Tremolo, Chorus and Phaser – modelled after legendary stomp boxes and effects units. The Mod 2 effects all come with a Wide (stereo) option, significantly expanding the range of available sounds.

The *Delay* effect can be used for anything from subtle ambience or slap-back effects to almost endless soundscapes. The three different feedback filters, multiple Ping-Pong options and an Analog mode provide a wide range of tools for sonic variation.

Classic amplifier simulations, including “British” and Suitcase models, as well as tube-like overdrive which ranges from subtle crunch to all-out distortion are found in the *Amp* section.

A versatile *Equalizer* with a sweepable middle band can be applied to any of the Nord Electro 7 sections.

The *Compressor* effect allows for both subtle adjustments of dynamic response as well as more extreme and obviously compressed sounds.

Finally, the *Reverb* effect provides a wide range of small and large room simulations, as well as the new *Spring* reverb type, for instant atmosphere. Each Reverb type comes with optional Bright or Dark modes as well as a lush Chorus mode for additional modulation.

# 3 GETTING STARTED

Let's spend a few minutes getting acquainted with the most fundamental features of the Nord Electro 7, and go through some common tasks and scenarios in a stepwise fashion.

## HOOKING IT UP

- ① Connect the power cord to the Nord Electro 7 and a mains power supply, connect the sustain pedal and a set of headphones or a sound system.
- ② Make sure to turn on the Nord Electro 7 first, *before* the sound system. Please be careful with the output volume!

For more information on all the connections of the Nord Electro 7, see the Connections section on page 46.

## PANEL CONTROLS

### PUSH ENCODERS AND KNOBS



The *push encoders* on the Nord Electro 7 are knobs without fixed start and stop positions, that can also be *pressed* to access alternate views or functionality. The large **PROGRAM** encoder is one such example. In this user manual, push encoders are also referred to as *dials*.



Potentiometer-type *knobs* are used for most panel settings on the Nord Electro 7. When a program is loaded the physical positions of these knobs will in most cases not correspond to the stored values. As soon as a knob is turned however, its associated parameter value will "snap" to the knob's position.

💡 To monitor the current value of any knob parameter, press and hold the **SHIFT** button while turning that knob.

### BUTTONS



*Selector buttons* are used for selecting one setting from a group of available options. They have a set of two or three LEDs which indicate the current setting. Press the button several times to cycle through the possible settings.



**ON/OFF** buttons are used for activating a function or a group of functions such as effects and have a LED close to them to indicate the on/off status.

### BUTTON HOLD FUNCTIONS



Some buttons, such as that for the Transpose, can be *held down* in order to access a function or make additional settings, indicated by the text being accompanied by a down arrow (▼).

### THE SHIFT BUTTON



Many panel controls on the Nord Electro 7 have a *secondary* function, which is printed immediately below it. These additional functions are accessed by pressing and holding **SHIFT** while operating the control.

💡 Most Shift functions can also be activated by keeping their associated button pressed for a short period of time.

The Shift button is also used to **EXIT** a menu or to cancel an ongoing Store operation.

### MASTER LEVEL



The Master Level knob sets the overall output level of the instrument, both for the Left/Right outputs and for any connected headphones. Unlike most other panel controls, its value is *not* stored with individual programs but will always have the level to which it is physically set.

### THE SYNTH VIBRATO BUTTON

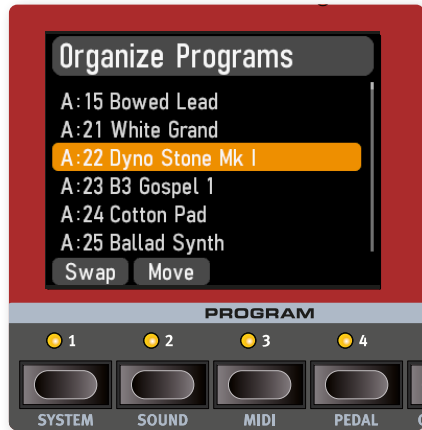


The **SYNTH VIBRATO** button is a real-time, momentary control which activates the Synth section Vibrato when pressed down and deactivates it when released, unless a permanent or delayed setting has been made for the Vibrato function in the Synth section.

Pressing **SHIFT** and **SYNTH VIBRATO** opens the vibrato **SETTINGS**, where the Rate and Amount of the vibrato can be adjusted.

## SOFT BUTTONS

Menu and settings pages – as well as the Organize view, shown below – may contain several related options in which case “soft buttons” are used for focusing a setting or performing a task. Soft buttons are placed at the bottom of the display and are controlled with the **PROGRAM 1-4** buttons. For example, pressing Program button 1 in the example below will select Program A:22 for a Swap operation.



## PROGRAMS

The *Program* area is located at the center of the panel, with the color display in the middle. One program contains complete settings of every parameter on the panel and is stored in the program memory of the Nord Electro 7, with enough room for 500 programs.

Programs are organized into 20 banks, labeled A-T. All programs can be edited and replaced as desired.

**i** A complete set of the factory programs is available from [nordkeyboards.com](http://nordkeyboards.com). This means that the program memory can always be restored to its original state.

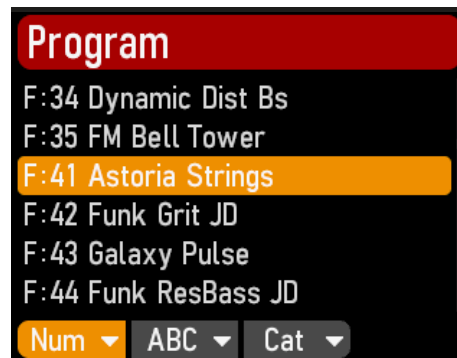
### SELECT A PROGRAM

Programs are selected by pressing any of the five **PROGRAM** buttons located below the display, or by turning the **PROGRAM** dial.

The **PAGE** ◀ / ▶ buttons are used to navigate program *pages* – a page being a group of 5 programs. A Program **BANK** (Shift+Page) on the Nord Electro 7 contains 25 program locations divided into 5 program pages.

## PROGRAM LIST VIEW

Pressing the Program dial opens the list view:



- ① Press the **PROGRAM** dial to enter a list view of all the Programs.
- ② Browse to any program, using the **PROGRAM** dial. All 20 program banks can be accessed when in List mode.
- ③ Try out the **Abc** and **Cat** soft buttons respectively. Note that in Abc mode, all programs are shown in a list sorted by name and in Cat mode as a list sorted by Category. Pressing down on the ABC or Cat soft buttons displays a list of alphanumeric characters or categories, respectively.
- ④ Press **SHIFT** again to **EXIT** the List view.

## EDIT A PROGRAM

Editing a program is as easy as turning a knob or pressing a button, to change an existing setting. Let's give it a quick try:

- ① Dial up program A:21 (or any piano based program) for this exercise.

## SELECT A NEW PIANO SOUND

- ② On the Nord Electro 7, piano sounds are grouped according to their *Category* (for instance Grand or Upright). Press the **PIANO LIBRARY** dial and select the desired category from the list.
  - ③ Press the dial again and use the dial to select a specific sound
  - ④ Press the dial again, or Shift/Exit, to exit the piano selection, and return to the Program view.
- i** Note that changing any parameter on the panel causes an “E” to appear next to the program number in the display. This indicates that the program has been edited but not yet saved. If another program is loaded before a Store operation is performed, any edits are lost and the program will have its original settings the next time it is loaded.

## TURN OFF MEMORY PROTECTION

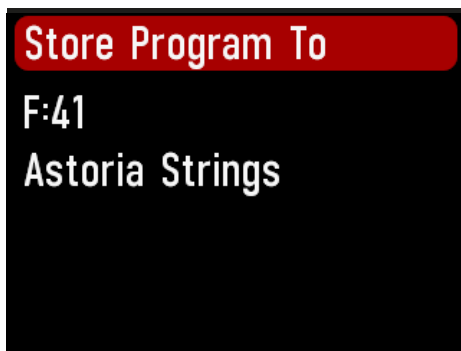
When the Nord Electro 7 is shipped from the factory, its memory is protected to prevent accidental overwriting of original programs. Memory protection can be turned off from the System menu:

- ① Hold **SHIFT** and press the **SYSTEM** (Program 1) button below the display.
  - ② Memory Protect is the first setting of the *System* menu. If the display shows a different setting, use the **PAGE** ◀ / ▶ buttons to navigate to the Memory Protect setting.
  - ③ Change this setting to *Off* by turning the **PROGRAM** dial.
  - ④ Press **EXIT** (Shift button) to exit the *System* menu.
- i** This setting, like most other *System* settings, will be permanently stored until it is changed again.

Read more about menus and their settings on page 42.

## STORE A PROGRAM

- ① Press the **STORE** button above the display once, to begin the process of storing the current program.
- ② The **STORE** LED will begin to flash and the display will ask for the location to which the program should be stored.



- ③ If you want to store the edited version to the current location, replacing the original, simply press **STORE** again. If not, use the dial and/or **PROGRAM** and **PAGE/BANK** ◀ / ▶ buttons to select a different location..

**i** As you scroll through the program locations, each program becomes active on the keyboard. This allows for auditioning any program before it is replaced with the program being stored.

- ④ When you have found a suitable location for your program, press **STORE** again to confirm the store operation.

**i** Press Shift/Exit once to cancel an ongoing Store process.

Read more about Store and how to *name* a program in the Program chapter, on page 29.

## LIVE MODE

The five Live programs differ from other programs in that all edits made to them are saved automatically, without the need for a manual Store operation.

- ① Press **LIVE MODE** and use the **PROGRAM** buttons to navigate the five Live programs.
- ② Make an edit, such as activating one of the effects units, to one of the programs.
- ③ Select a different Live program and then return to the one that was edited. Note that the edit was automatically stored.
- ④ Press the Live Mode button again to exit Live Mode and return to the Program banks.

If Live Mode is active and you wish to store the settings permanently as a program in one of the Program banks, you can do so using the Store methods described above. Conversely, programs can also be stored *into* any of the Live Mode memory locations by pressing **LIVE MODE** and selecting one of the Live program locations at the “Store Program To” step.

## LAYER WITH A SYNTH PRESET

- ⑤ Turn on the Synth section.
  - ⑥ Press the **SOUND LIBRARY** dial and press the **Analog** soft button (Program 3 button).
  - ⑦ select the Analog Pad category (the categories are alphabetically sorted).
  - ⑧ Press the **SOUND LIBRARY** dial again and select a sound from the chosen category. Press the dial again confirm the choice and exit the list.
- i** The name of the synth preset is shown at the bottom of the display.
- ⑨ Use the Synth **LEVEL** knob to set an appropriate sound level for the pad sound.

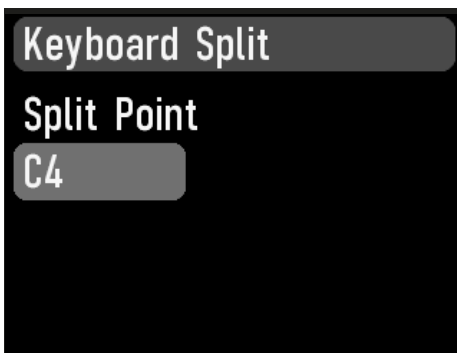
When a preset or sample is selected, *preset* settings for the Synth envelopes (Attack, Decay/Sustain, Release) and Dynamics settings are also loaded. These parameters can be further adjusted manually as desired. Descriptions of these controls are found in the Synth reference chapter, starting on page 22.

## FOCUS AND ACTIVATE EFFECTS

- ① Continuing on the previous example, press **FX FOCUS** in the Effects section until the **PIANO** section is focused for effects editing.
- ② Turn **ON** the Reverb and press **LAYER SEND** (Shift+On) which allows for different Reverb levels for each section (Organ, Piano and Synth).
- ③ Select the **HALL** Reverb mode and set the Reverb Dry/Wet control to a low amount for the current sound.
- ④ Use **FX FOCUS** to focus the **SYNTH** section effects, and set the Reverb Dry/Wet level to a higher amount here. Note that the Piano sound is now quite dry, whereas the Synth has much more ambience.
- ⑤ Feel free to continue focusing the Piano and Synth respectively, trying out further effect types and settings for each section as desired.

## CREATE A SPLIT

- ① Make sure that both the Piano and a Synth sections are turned on.
- ② Press the **SPLIT ON/SET** button to turn the Split function on.
- ③ To adjust the *position* of the Split point hold down the **SPLIT ON/SET** button and select the desired location using the Program dial. The keyboard is now divided into two zones, the split point being indicated with a LED above the keyboard.



- ④ Press **KB ZONE** (Shift+On) for the Piano and set it to **LO**. Press KB Zone for the Synth section and set it to **UP**. The Piano sound is now active to the left of the split point and the Synth to the right.

Feel free to use the **OCTAVE UP/DOWN** controls in the Piano and Synth sections for accessing different ranges of the respective sounds. Also try keeping one of the sections set to *both* **LO** and **UP** using the KB Zone control, letting you play that sound from the entire keyboard, layering it with a split sound.

### SET UP A SPLIT CROSS-FADE (X-FADE)

As a final step, let's adjust the split point so that the split Piano and Synth sounds transition gradually between one another:

- ⑤ Press **X-FADE** (Shift+Split On/Set) twice to select the 2 option.

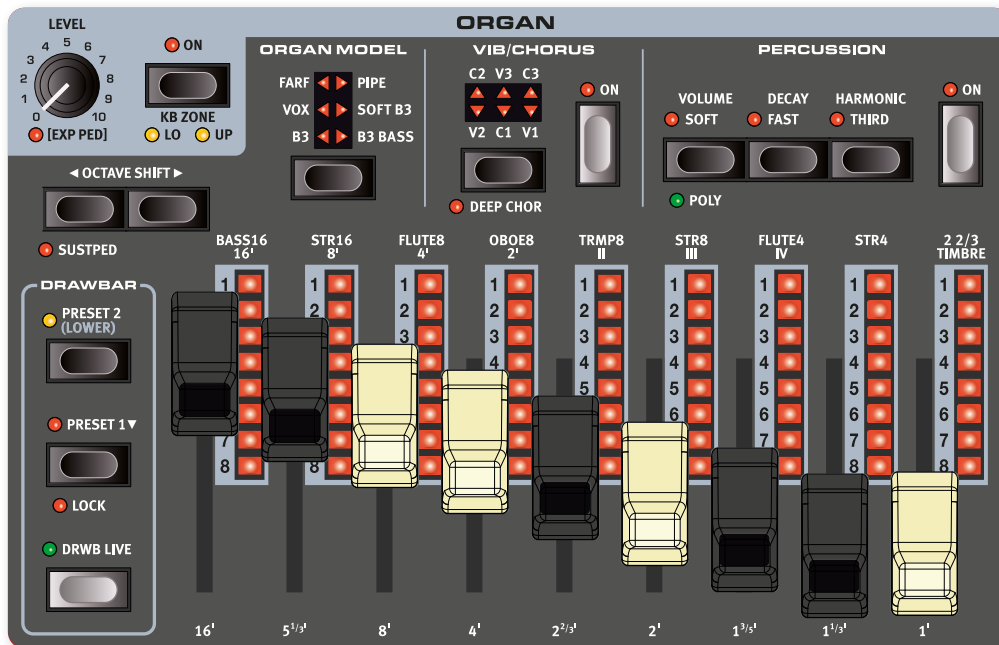
Playing across the Split point will now "cross-fade" between the lower and the upper sounds. With the 2 setting, the split LED above the keyboard is lit with a *red* light and the X-Fade reaches 12 semitones above and below the split point. When width is set to 1 the LED is

*yellow*, giving an X-Fade zone of 6 semitones above and below the split point. When X-Fade is Off, the LED is *green*.

## USING THE ORGAN

- ① Turn On the Organ section and turn Off the Piano and/or Synth sections if active.
  - ② Using the **ORGAN MODEL** selector, choose the Organ Model to use. Let's go for the B3 in this example.
  - ③ Turn on the **ROTARY SPEAKER** and make sure it is set to Organ (**ORG**) by pressing **SHIFT+ON**.
  - ④ The Organ section has three sets of drawbars available, **PRESET I**, **PRESET II** and the **LIVE** drawbars. The Live drawbars differ from the presets in that the *physical* positions of the drawbars are always used in this mode. Try out each drawbar set - perhaps setting up a softer sound, using fewer drawbars on Preset II and a sound using a fuller registration on Preset I.
  - ⑤ Try out the Rotary Speaker **SLOW**, **STOP** and **FAST** speed controls, placed at the bottom of the Rotary Speaker section. Note that the Rotary Speaker speed can also be changed using a switch pedal attached to the **ROTARY CTRL/FOOT SWITCH** jack, or by the optional Half Moon Switch accessory which replicates how the rotor speed is normally adjusted on the original instrument.
- i** *Additional settings for the Rotary Speaker behaviour and sound are found in the Sound menu, see page 42. Settings for attached pedals are found in the Pedal menu, further described on page 44.*

# 4 ORGAN SECTION



## ABOUT THE ORGAN SECTION

The Nord Electro 7 features six organ models, all digitally modeled; a tonewheel/B3 organ with a separate B3 Bass mode, two transistor organs (Vox and Farfisa), Soft B3 and Pipe Organ models.

**i** The Rotary Speaker effect is covered in the Effects chapter, see page 36.

### ON/OFF AND KB ZONE

The Organ Section is turned On or Off by pressing its **ON** button.

Press **KB ZONE** (Shift+On), to assign the Organ to the Lower (**LO**), Upper (**UP**) or Lower *and* Upper keyboard zones. When assigned to both keyboard zones, **PRESET 2** is assigned to Lo while **PRESET 1** and the **DRWB LIVE** drawbars are assigned to Up, allowing for dual manual Split setups.

With the **B3 BASS** Organ Model selected, the two bass drawbars are assigned to the Lower zone/Presets, with a standard B3 manual being available on the Upper zone, corresponding to Preset 1 and Drwb Live.

The Program section **KB SPLIT** function is turned on automatically when operating the KB Zone settings. Read more about KB Split, split points and keyboard zones on page 28.

**📍** A secondary keyboard can be attached to the Nord Electro 7 using MIDI and set to control one of the Organ manuals using the **AUX KB** functionality. Read more about this on page 31.

### LEVEL AND EXP PED

The **LEVEL** control determines the output level of the Organ section.

The **[EXP PED]** LED indicates whether an attached Expression Pedal controls the Organ *Swell* or not. To turn this On or Off, press **EXP PEDAL ASSIGN** in the Program Section, or **SHIFT**, and turn the Organ **LEVEL** control clockwise or anti-clockwise.

### OCTAVE SHIFT

Use **OCTAVE SHIFT** **◀ / ▶** to transpose the Organ up or down by octaves (+/- 12 semitones). When assigned to the entire keyboard it can be transposed one octave up or down. With a keyboard split being active, each keyboard zone can be transposed individually, always giving access to the entire range of the organ regardless of the size of the keyboard zone.

### SUSTPED

**SUSTPED** (Shift+Octave Shift Down) activates any attached sustain pedal for the selected Organ Layer. Read more on how to configure an attached pedal in the Menu chapter, on page 44.

### SELECTING AN ORGAN MODEL

Use the **ORGAN MODEL** selector button to select an Organ Model to use. Read more about each Organ Model further down.

## DRAWBARS AND PRESETS



The mechanical drawbars are accompanied by LED graphs, showing the settings for a focused **PRESET**.

### PRESET 1 AND 2

**PRESET 1** and **PRESET 2** provide two independent drawbar settings, useful for switching between two distinct sounds during a performance.

When a KB Split is active and the Organ is assigned to both the Lower and Upper sides of the split, Preset 2 is assigned to Lower and Preset 1 (and Drwb Live) to Upper.

### LOCK

Preset 1 can be locked, by pressing Shift+Preset 1, which activates the **LOCK** LED. This is useful for scenarios where you want to be able to *prepare* drawbar settings *before* switching to Drwb Live from a preset.

### DRWB LIVE

With **DRWB LIVE** selected, the LED graphs are unlit and the physical positions of the drawbars are used. A program can be stored with Drwb Live active, allowing for that program to be loaded with the physical drawbar positions being instantly used.

## SWELL PEDAL

Swell is a characteristic organ feature, controlled from a continuous pedal. Swell is not only a volume control – for the B3 model it also makes the sound softer, by reducing the mid range presence, at low swell levels.

To use Swell control on the Nord Electro 7, make sure the **[EXP PED]** LED next to the **LEVEL** control is lit, activated by pressing **SHIFT** or **EXP PEDAL ASSIGN** in the Program Section and turning the Organ **LEVEL** control.

An attached Expression Pedal can be configured in the Pedal Menu (see page 44).

**i** Like on the original instrument, the Swell pedal does not lower the volume all the way to zero when in B3 or B3 Bass mode.

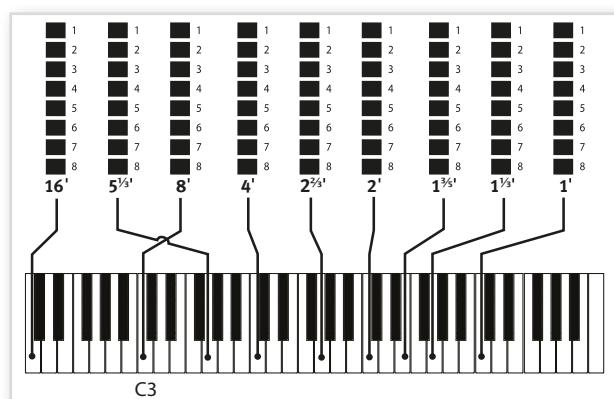
## THE B3 MODEL

The **B3** model is based on the classic electro-mechanical tonewheel organ. This simulation utilizes innovative and advanced methods to capture every nuance of the original sound. Here are some examples:

- An extremely accurate capture of the original chorus and vibrato scanner.
- Modeling of the individual contact bounces for each harmonic.
- Modeling of the unique frequency characteristics of the built-in pre-amplifier, which forms the “body” of the sound.
- Simulation of the energy robbing on the tone wheels that results in the typical “compressed” sound.
- Authentic tuning of the tonewheels according to the original design.
- Extremely fast keyboard response.
- Full polyphony.

### B3 DRAWBARS

The harmonic intervals for the tonewheel organ are printed on the panel below the drawbars. Each drawbar represents a partial with a fixed harmonic interval in relationship with the played note. The illustration below shows the pitch interval among the nine drawbars when the key of C3 is played. Note that the  $5\frac{1}{2}'$  drawbar actually is a 5th *above* the fundamental harmonic (8') but in most situations is perceived as sounding below it.



## VIBRATO & CHORUS



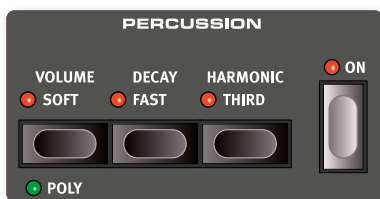
The original vibrato and chorus scanner in a tonewheel organ consists of a modulated delay line in combination with a rotating scanner. For the Vibrato effect, phase shift is applied to the signal. For the Chorus effect, the phase-modulated signal is added to the original signal.

Three different types of choruses (C1-C3) and three different types of vibratos (V1-V3) are available. Select one of these types by pressing the Vibrato/Chorus selector button.

### DEEP CHORUS

he **DEEP CHOR** (Deep Chorus, Shift+Vibrato/Chorus) setting increases the modulation amount of the Chorus effect. The non-Deep and Deep Chorus settings correspond to early and late eras of the original design.

## PERCUSSION



Press the **PERCUSSION ON** button to add an extra attack to the B3 sound by having a single envelope generator controlling either the 2nd or 3rd harmonic.

The envelope “opens up” for a short moment at the beginning of the sound when you press the key(s). Normally, the percussion is a single-triggered non-legato effect. By “single-triggered” we mean that the percussion is only present when you hit the keys when no other note is sounding. In other words, if you play a note or a chord and then add more notes without releasing the previously pressed keys, there will be no percussion effect in the new notes. You have to release all keys to be able to play new notes with the percussion effect.

In **POLY** mode (Shift+Volume), the Percussion is *polyphonic*, producing the percussive attack on each new stroke, regardless of how many keys are already pressed down.

The **VOLUME SOFT** button toggles between Normal and Soft percussion level. The **DECAY FAST** button toggles between Slow and Fast decay times.

The **HARMONIC THIRD** button toggles between using the 2nd or 3rd partial as the source for the percussion effect.

**i** The Percussion effect is only available for the B3 organ model.

## THE VOX MODEL

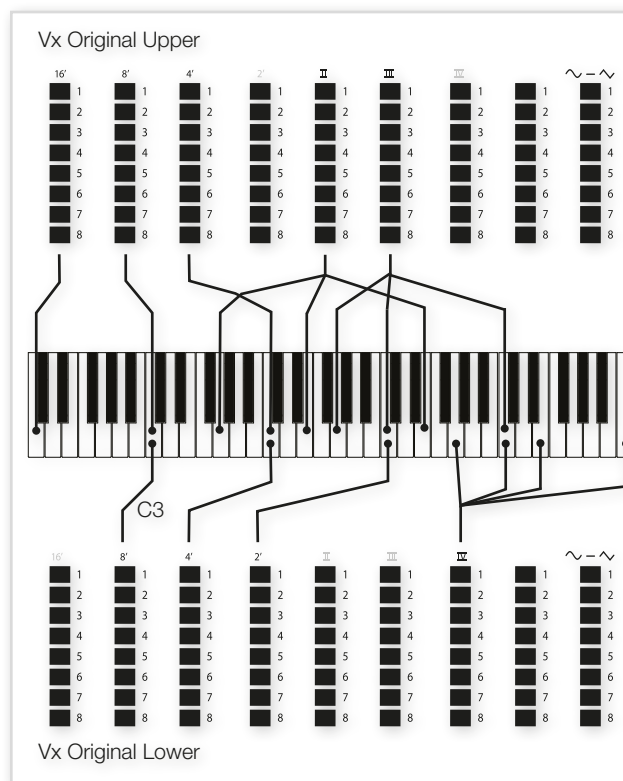
The original Vox™ organ is probably the most famous of all the transistor based combo organs that emerged in the early 60’s. Transistor technology made it possible to manufacture compact and portable organ instruments. Compared to the mighty sound of tonewheel based organs, transistor organs generally sounded reedier and weaker, but this one had a distinctive sound character which together with the portability made the instrument massively popular at the time.

### VOX DRAWBARS

The labels used for the Vox drawbars are printed on the row directly above the drawbar LEDs.

For basic drawbar operation, please refer to “Drawbars and LED Graphs” on page 15. The seven drawbars to the left control the level of each partial. Each partial has a fixed harmonic interval relating to the played note. The illustration below shows the pitch interval of the drawbars when the key of C3 is played.

The rightmost drawbar controls the mix between a filtered signal sounding soft and dark, and an unfiltered signal sounding bright and intense.



### VIBRATO

There are several types of vibrato and choruses available for the Vox model, which is activated using the **ON** button in the Vibrato section. The **V3** setting is the one that is modeled after the original instrument.

## THE FARF MODEL

The typical “buzzy” sound of this vintage instrument is one of the most distinct and easily recognizable organ sounds ever created; yet it is actually possible to get quite a wide range of sounds out of the instrument. Note that the voices aren’t supposed to replicate the instruments they are named after, but rather to describe the basic tonal characteristic of the voice: Flute = soft, Oboe = reedy, Trumpet = brassy etc.

### FARF REGISTERS

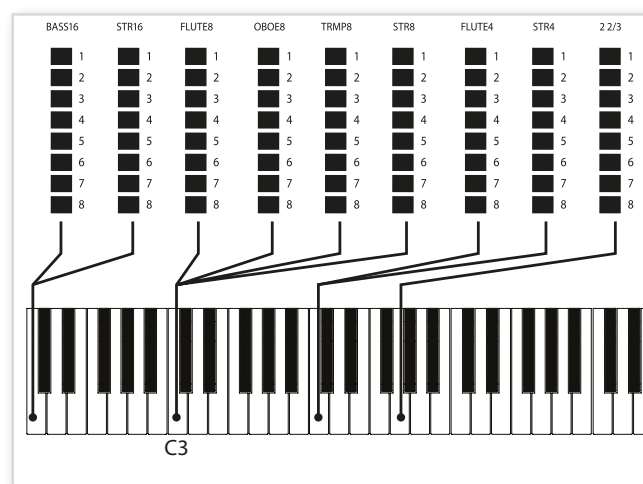
The labels used for the **FARF** drawbars/registers are printed on the upper row, above the drawbar LEDs or drawbars.

The drawbars act as on/off switches, or “register selectors” when the Farf model is selected. Instead of drawbars, the original instrument used rocker switches for selecting instrument voices (in reality different filter settings) in various footage (octave) ranges. Drawbar LEDs 5-8 are lit up for an activated voice, and drawbar LEDs 1-4 are lit up for a deactivated voice. Pulling a drawbar more than half way out will activate that register.

The table below shows the original register name.

Drawbar	Voice	Panel Name
1	Bass 16	BASS16
2	Strings 16	STR16
3	Flute 8	FLUTE8
4	Oboe 8	OBOE8
5	Trumpet 8	TRMP8
6	Strings 8	STR8
7	Flute 4	FLUTE4
8	Strings 4	STR4
9	A bright voice, an octave and a fifth above the fundamental	2 2/3

The illustration below shows the pitch interval between each voice when the key of C3 is played. Though some voices have the same pitch, they differ in tonal character.



## VIBRATO

The original instrument has two basic vibrato modes; “Light” and “Heavy”, with different rates for each mode. There are several types of vibrato and choruses available for the Farf model on the Nord Electro 7, which are activated using the **ON** button in the Vibrato section.

The **V1**, **V2** and the **C3** settings are the ones that are modeled after the original instrument’s.

## SOFT B3

For scenarios where a B3-like sound is desired, but without the keyboard click and other artifacts, the **SOFT B3** is an appropriate choice. The drawbars correspond exactly to those of the B3 model.

With the Soft B3 selected the B3 Percussion has no effect on the sound.

## PIPE ORGAN

The **PIPE** organ model faithfully recreates a *principal* pipe section – the sets of metal pipes, or ranks, that commonly make up the backbone of a pipe or church organ. While other ranks may attempt to recreate the sounds of other instruments (flutes, trumpets, strings etc.) the principal sound is non-imitative and unique to the pipe organ.

The pipe lengths available for the Pipe models correspond to those of the B3 model, ranging from 16 feet to 1 foot.

### PIPE VIBRATO/CHORUS

Activating **VIBRATO/CHORUS** for the Pipe organ switches to a model which is tuned with less precision. This produces chorus-like effects, slight dissonances and adds realism when combining registers.

## B3 BASS

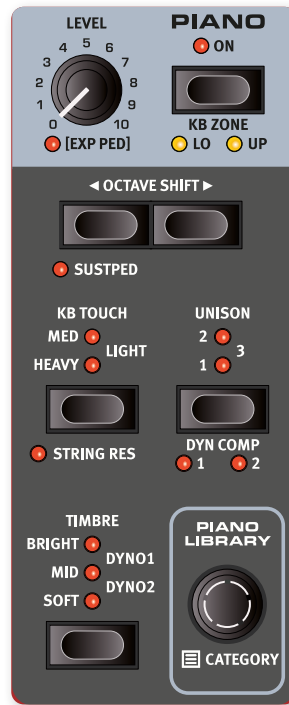
The **B3 BASS** model provides the two traditional B3 Bass 16’ and 8’ drawbars. Apart from using them on their own they could be used on the left side of a keyboard split, or be controlled from an external keyboard or pedal keys over MIDI, using the Aux KB feature.

Read more about splits on page 28 and about Aux KB on page 31.

## ROTARY SPEAKER

The Rotary Speaker settings are described in detail in the Effects chapter on page 36.

# 5 PIANO SECTION



## ON/OFF AND KB ZONE

The Piano Section is turned On or Off by pressing its **ON** button.

The KB Zone Lo and Up LEDs indicate whether the Piano is assigned to either or both sides of the split point, in a keyboard split scenario. Press **KB ZONE** (Shift+On), to assign the Piano to the Lower (**LO**), Upper (**UP**) or Lower *and* Upper keyboard zones.

Read more about how to set up keyboard splits in the Program chapter, on page 28.

## LEVEL AND EXP PED

The **LEVEL** control determines the output level of the Piano section.

The Piano Level can be controlled by an attached Expression Pedal, indicated by the **[EXP PED]** being lit. Read more about how to set up Expression Pedal assignments on page 29.

## OCTAVE SHIFT

Use **OCTAVE SHIFT** ◀ / ▶ to transpose the Piano up or down by octaves (+/- 12 semitones). When assigned to the entire keyboard it can be transposed one octave up or down. When assigned to a smaller zone the available transpose values will vary, but always provide access to the entire range of the Piano.

## SUST PED

**SUST PED** (Shift+Octave Shift Down) activates any attached sustain pedal for the selected Piano Layer. Read more on how to configure attached pedals in the Menu chapter, on page 44

## ABOUT THE PIANO SOUNDS

The Pianos in the Nord Electro 7 are organized into *categories*. Each Category can contain several instrument *models*. New piano sounds can be downloaded from the [www.nordkeyboards.com](http://www.nordkeyboards.com) website and added to the Nord Electro 7 by using the Nord Sound Manager.

The Nord Electro 7 has 1 GB of memory for Piano sounds and provides an extensive collection of carefully selected pianos of all categories, right out of the box. Much effort was made to ensure a nuanced response and sound, matching the original models as closely as possible. Each piano has been sampled with a vast amount of velocity levels, which is one reason why they all sound and feel so authentic.

**i** *When you download piano sounds with the Nord Sound Manager, these are automatically placed into their corresponding Category.*

If a Program references a piano that is currently not downloaded onto the Nord Electro 7, the display will read “Piano not found”. If this happens, you can either navigate to another instrument model of the selected (or any other) category and select to use this piano instead, or use the Nord Sound Manager application to download the missing instrument.

## ABOUT PIANO SIZE

Nord Piano Library sounds come in up to four different sizes. Below is an overview of how Grand and Upright piano sounds differ in functionality depending on size:

	Sml	Med	Lrg	XL
Detailed velocity mapping	✓	✓	✓	✓
String resonance for middle range		✓		
String resonance for entire range			✓	✓
Fully mapped keyboard				✓

*Small (Sml)* piano files use the least amount of space in the piano memory as they do not contain any pedal-down String Resonance samples at all.

The *Medium (Med)* versions include pedal-down String Resonance samples for the important middle region of the range.

The *Large (Lrg)* versions have the pedal-down String Resonance samples all across the keyboard.

Most pianos are also available in an *Extra Large (XL)* version. These are “fully mapped” across the keyboard, meaning that each key on the Nord matches its exact equivalent on the original instrument. This naturally results in a significant increase in size.

## ABOUT STRING RESONANCE

For Piano Sizes that support it (see table above), the String Resonance feature can be activated by pressing **STRING RES** (Shift+KB Touch). The String Resonance effect is achieved by a combination of two distinct components:

- ① The dedicated *pedal down samples*, activated when pressing the sustain pedal, included in the Med, Lrg and XL sizes of Grand and Upright piano sounds. These were sampled with the sustain pedal pressed down, capturing the natural ambience and acoustics of the original instrument.
  - ② The simulated “sympathetic” String Resonance which occurs when strings of held notes are caused to vibrate at their fundamental or harmonic frequencies as other notes are being played.
- i** *The level of sympathetic String Resonance can be adjusted in the Sound menu, see page 43.*

## PIANO LIBRARY

### CATEGORY AND MODEL

To select a Piano sound, *press* the **PIANO LIBRARY** dial. This displays a list of categories. Select the desired Category and press the dial again, displaying the available Models for that Category. Select the desired Model and press the dial again, which closes the Piano Library view.

CATEGORY	DESCRIPTION
Grand	Acoustic and electric grand pianos
Upright	Upright pianos
Electric	Electric Pianos (tine and reed based)
Clav	Clavinet and Harpsichords
Digital	Digital and Layer piano sounds
Misc	Miscellaneous sounds



The *name* of the selected model is also shown in the Program area display.

It is also possible to select Piano sounds without entering the Category view, by simply turning the Piano Library dial. This browses through all available Piano sounds linearly.

### ABOUT THE CLAVINET

On the original Clavinet D6, different pick-up combinations were selected by pressing a number of rocker switches. This functionality is faithfully simulated by the Nord Electro 7, which means that all original Clavinet D6 pickup selections are available.

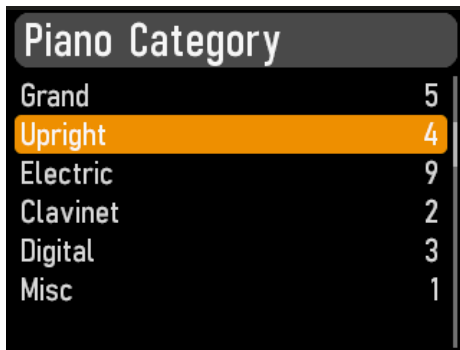
#### PICK-UP TYPE DESCRIPTION

*Clav Model A:* Only the “neck” pick-up; a warmer, less bright sound.  
*Clav Model B:* Only the “bridge” pick-up; a bright sound.  
*Clav Model C:* Both pick-ups on and in phase; a very full sound.  
*Clav Model D:* Both pick-ups 180 degrees out of phase; the fundamental is almost cancelled out and the sound becomes thin.

**i** *The Clavinet also has its unique set of Piano Timbre settings, corresponding to EQ options of the original instrument. Read more on this on page 21.*

## LIST VIEW

Pressing the the **PIANO LIBRARY** dial activates the **CATEGORY** list view for piano sounds:

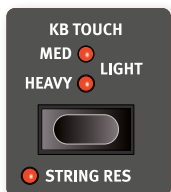


Use the dial to select the desired Category, and press the dial again to view a list of all Models within that Category:



Press the dial again, or Shift/Exit to confirm the choice.

## KB TOUCH



Pianos from the Nord Piano Library typically have a very wide dynamic range, and their dynamic response can be adjusted according to what fits your preferences or the context of your performance.

The **HEAVY** setting represents a heavy piano action, which facilitates playing softly yet expressively. With each increment of the KB Touch setting (**MED** and **LIGHT**) less effort is required to play loudly.

## STRING RESONANCE

Pressing **STRING RES** (String Resonance, Shift+KB Touch) activates or deactivates the String Resonance feature for the selected Piano sound. Note that String Resonance is only available for acoustic piano sounds (Grand and Upright) and is never active for other categories.

**i** Read more about String Resonance on the previous page.

## UNISON



The **UNISON** feature uses transposed voices from neighbouring keys to create a stereo Unison effect. This can be used for stereo widening of mono sources such as electric pianos or for adding width and chorus-like shimmer to acoustic pianos. At the highest setting larger degrees of detune is applied. There are three different degrees of Unison, **1**, **2** and **3**, ranging from a subtle stereo effect to more obvious detuning.

## DYNAMIC COMPRESSION

**DYN COMP** (Dynamic Compression, Shift+Unison) reduces the dynamic range of a piano sound by raising its minimum sound level, while retaining differences in *timbre*. Choose between the **1**, **2** and **3** settings, where 3 provides the most compression. This feature is useful for maintaining an audible performance and even sound level, even when playing very softly or dynamically.

**⚡** Unlike the Compressor (Comp) effect in the Effects section, which affects the attack and contour of the sound (often desired traits when using compression as an effect) the Dyn Comp feature does not alter the character of the selected piano.

## NORD TRIPLE PEDAL

The Nord Electro 7 is compatible with the Nord Triple Pedal 1 (Nord TP-1).

The Nord Triple Pedal 1 is comprised of three pedals in one unit and unlocks additional features both within the Piano section of the Nord Electro 7 as well as a number of useful options that are not specifically related to Piano playing. Settings for these options are found in the Pedal menu, see page 44 for more details.

## SUSTAIN AND HALF PEDALING

The right pedal always functions as sustain pedal. With the Nord Triple Pedal as well as the Nord Single Pedal 2 (Nord SP-2) this can be used with half pedaling techniques, achieved by pressing the pedal half way down. In this case the (virtual) dampers are only half-raised, for a partially dampened sound.

## SOSTENUTO

The middle pedal of the Nord Triple Pedal 1 is by default the *Sostenuto* pedal. Using this, selected notes can be sustained while other notes remain unaffected. Notes that are already held down when the pedal is operated will sustain while subsequent notes, played while the pedal down is, will not be sustained.

**⚡** There are a number of optional functions for the middle pedal, see page 44 for further details.

## SOFT PEDAL

The left pedal on the Nord Triple Pedal is by default the *soft pedal*, also known as the *Una Corda*. When it is pressed down, all played notes will

be slightly lower in volume and also have a slightly more subdued tone quality.

💡 *There are a number of optional functions for the left pedal, see page 44 for further details.*

## TIMBRE



Use the Piano **TIMBRE** settings to quickly alter the frequency response and character of the selected piano sound. The available options and the actual effect of each setting varies with the selected Piano Category, as outlined below.

### ACOUSTIC PIANO TIMBRE SETTINGS

The **SOFT** setting gives the sound a subdued and intimate quality by dampening high frequency content and emphasizing the low end

The **MID** mode de-emphasizes both high and low frequency ranges, making for a focused and cutting sound with a prominent mid-range.

The **BRIGHT** mode emphasizes the high frequency range, producing a very bright and brilliant sound.

### ELECTRIC PIANO TIMBRE SETTINGS

When an Electric Piano is selected, the Timbre settings are tailored specifically to suit these sounds.

The **SOFT** setting reduces the treble and bell sound, while retaining a focused and punchy sound.

The **MID** setting boosts the upper mid-range, adding "presence" and cut to the sound.

The **BRIGHT** setting boosts the upper mid-range and adds brilliance/treble, giving both presence and clarity to the selected piano sound.

The **DYNO 1** and **DYNO 2** settings are both based on sounds produced by a custom preamp and EQ, which was a common addition to tube based electric pianos in the 70's and early 80's. Both settings greatly enhance the inherent "bell" sound of the electric piano sound. The Dyno 2 setting also boosts the bass register, resulting in a distinctly "mid scooped" sound.

### CLAV TIMBRE SETTINGS

An original Clavinet is equipped with 4 rocker switches which control the onboard EQ. Most of the combinations produced by these switches are available on the Nord Electro 7.

*Available settings are: Soft, Treble, Soft+Treble, Brilliant, Soft+Brilliant, Treble+Brilliant, Soft+Treble+Brilliant.*

### PIANO INFO

More detailed information about the selected Piano sound is available on the last page of the Sound menu, see page 43.

# 6 SYNTH SECTION



## ON/OFF AND LEVEL

The Synth section is turned On or Off by pressing its **ON** button and its output volume level is controlled by the **LEVEL** knob.

The Level can be controlled by an attached expression pedal, such as the Nord EP15 or EP30, in which case the **[EXP PED]** LED will be lit. See page 29 for details on how to set this up.

## KB ZONE

Press **KB ZONE** (Shift+On), to assign the Synth section to any of the active keyboard zones. The green LEDs indicate whether the Layer is assigned to the **LO** (lower), **UP** (upper) or both keyboard zones. Read more about Split setups and keyboard zones on page 28.

## OCTAVE SHIFT

Use **OCTAVE SHIFT** ◀ / ▶ to transpose the Synth section up or down by octaves (+/- 12 semitones). When assigned to the entire keyboard it can be transposed two octaves up or down. When assigned to a smaller zone the available transpose values will vary, but always provide access to the entire range of the Synth.

## SUST PED

**SUST PED** (Shift+Octave Shift Down) activates any attached sustain pedal for the Synth section. Read more on how to configure attached pedals in the Menu chapter, on page 44.

## VOICE MODE

With the **MONO** or **LEGATO** voice mode active, only one note is played at a time, like on a traditional monophonic synthesizer. In Mono mode the envelopes are retriggered with each stroke whereas they are only retriggered with detached (“non-legato”) strokes in Legato mode.

When none of the Mono and Legato LEDs are lit, the Synth section is in its default polyphonic mode.

## GLIDE

The **GLIDE** function makes the pitch “glide” from one note to the next when playing (traditionally referred to as *portamento*) and is available in Legato and Mono voice mode only. The **1**, **2** and **3** (both LEDs being lit) settings provide three different Glide times to choose from.

## UNISON

The **UNISON** feature creates an ensemble-like sound by combining multiple, slightly detuned and stereo panned, voices. For samples, notes are borrowed from neighbouring keys in order to achieve a natural and rich sound.

There are three different degrees of Unison, **1**, **2** and **3**, each providing an increasing degree of detune and stereo spread.

## DYNAMICS

For *Samples*, each **DYNAMICS** setting; **1**, **2** and **3**, gives the sample instrument an increased dynamic range. When Dynamics is turned off,

most velocity controlled parameters, including preset filter settings are deactivated.

For *Analog* and *FM* sounds, the Dynamics control determines the amplitude velocity sensitivity.

## VIBRATO

Press **VIBRATO** (Shift+Octave Up) to activate the Synth vibrato, using the settings made in the Vibrato menu – accessed by *holding down* Vibrato:

**Rate:** The Rate (speed) of the vibrato can be set to values between 2 and 8 Hz.

**Amount:** The Amount parameter determines the strength of the vibrato and can be set to values between 0 and 10.

**Delay:** When set to *Off*, the vibrato takes effect instantly as a note is played. With a Delay time set, the Vibrato is introduced 0.1-3.0 seconds after a note is played.

**i** When a Sample or Preset is loaded, settings for Vibrato Rate and Amount are loaded as part of the Preset.

### SYNTH VIBRATO BUTTON



The **SYNTH VIBRATO** button at the far left of the panel can be used for applying Vibrato in real time. Pressing **SETTINGS** (Shift+Synth Vibrato) provides a shortcut to the Rate/Amount settings page.

## SOUND LIBRARY



The **SOUND LIBRARY** area allows for selecting *Preset* sounds using Samples, Analog and FM respectively. The Sound Library dial also gives access to detailed settings for a selected Analog or FM sound, allowing for creating sounds from scratch or fine tuning a preset sound as desired.

### SELECTING A PRESET

- 1 With the Synth section turned On, press the **SOUND LIBRARY** dial once to display a list of available Preset categories.
- 2 Use the display *soft buttons* to select between **SAMPLES**, **ANALOG** and **FM** respectively, with the category list adapting to the selected type.
- 3 Select the desired category using the dial and press again to display the available Presets within that category.
- 4 Once a preset has been selected, press the dial again to confirm the selection and exit the list, or **SHIFT/EXIT** to return to the category list for further browsing.

### WAVE|USER (SHIFT+SOUND LIBRARY DIAL)

With an **ANALOG** or **FM** sound selected, pressing **WAVE|USER** (Sound Select dial in combination with Shift) enters the manual **Analog** and **FM** views respectively. See the Analog and FM sections further below for details on settings within these views.

With a **SAMPLE** selected, pressing **WAVE|USER** allows for changing Sample while keeping all Synth section settings (Envelopes, Filter, Dynamics and more) intact.

In Waveform view, pressing Shift and the Sound Library dial again switches between Samples, Analog and FM, giving direct access to each type without having to select a Preset first. This is useful for quickly setting up a sound from scratch.

### ABOUT PRESETS

A selected Preset, of any type, comes with preset settings for all Synth section features, including both envelopes, the Filter, Dynamics, Vibrato and more. These settings can be adjusted as desired, and the adjusted sound can be stored as part of a Program.

**i** The Preset banks within the Synth section are “read-only” and are not possible to store to directly.

## SAMPLES

The Nord Electro 7 comes with a wide range of samples from the Nord Sample Library. Additional samples can be downloaded using the Sound Library feature of the Nord Sound Manager (see page 40), and custom user samples can be created and downloaded using the Nord Sample Editor 4 (see page 41).

**i** In order to download new samples, it may eventually become necessary to free up space in the instrument’s sample memory. This can be done from the Nord Sound Manager, either by removing unused samples – that are not part of any stored programs – or by using the *Relink* or *Substitute* function which keeps programs intact while replacing samples.

Like other Synth Presets, Samples are loaded with preset settings for the Amp Envelope, Dynamics and Vibrato. The Filter is automatically turned Off when a Sample preset is loaded, but can be turned on and used if desired.

## ANALOG












The Nord Electro 7 features a powerful yet compact Virtual Analog synth, based on a dual oscillator and dual ADSR envelope architecture with the addition of a resonant low-pass filter with adjustable keyboard tracking and filter Drive. Read more about all of these functions below.

### ANALOG WAVEFORMS

To access the edit view for an **ANALOG** synth sound, press **WAVE|USER** (Shift+Sound Library dial).

The two available oscillators are referred to as **A** and **B**. The A waveform is selected using the **SOUND LIBRARY** dial, and the B waveform is selected using the **PROGRAM** dial, with the **Osc B** soft button selected.

For both oscillators, there are five available waveforms. Oscillator B also has White Noise option.

Oscillator A		Oscillator B	
Triangle		Triangle	
Saw		Saw	
Square		Square	
Pulse 33		Pulse 33	
Pulse 10		Pulse 10	
		White Noise	

## OSCILLATOR B SETTINGS

The Oscillator B has a number of settings that make a wide range of dual oscillator sounds and configurations possible. Use the display soft buttons to focus each setting:

**Semi:** Sets the pitch of Oscillator B, in semitone steps. Use -12 or -24 for a classic *sub* setup, +7 for a *fifth* tuning, or any other desired interval.

**Detune:** Detunes the two oscillators relative to each other within a range of 0 to 10. Use lower settings for subtle vintage sounds, and higher settings for severely detuned effects.

*To achieve a phase locked, dual oscillator setup, make sure that Detune is set to 0, and select one of the following pitch options for the Semi parameter -24, -12, -5, 0, +7, +12, +19, +24*

**Mix:** Sets the level balance of Oscillators A and B, from Oscillator A only at -10 to Oscillator B only at +10. With Mix set to 0, there is a 50/50 mix of both oscillators.

Range: -10 to +10

## FM

The basic principle behind *frequency modulation* (FM) synthesis is that one sine oscillator (the modulator) modulates the frequency of another (the carrier). The carrier can in turn modulate the frequency of yet another oscillator, etc. The resulting waveform is far more rich in harmonics than the original waveform, and drastic changes in tonal character are possible by altering the amount of modulation.

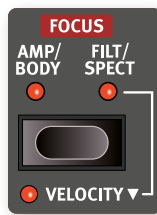
Traditionally, FM oscillators are referred to as *operators*, and the FM categories of the Nord Electro 7 provide algorithms with 2, 3 and 4 operators.

## BODY AND SPECTRA

For all algorithms with more than two operators, the terms *Body* and *Spectra* are used for referring to the two adjustable modulators. In very general terms, this reflects how each modulator is commonly used in sound design, where the *Body* parameter determines the strength and character of the fundamental and lower harmonics and the *Spectra* parameter determines the amount and character of upper harmonics.

All parameters governing the *Body* and *Spectra* operators are further described below.

## FOCUS AND VELOCITY



The **FOCUS** button toggles the edit focus for the *Body* and *Spectra* operators, with these panel controls following the current focus:

- Envelope **ATTACK, DECAY/SUSTAIN, RELEASE**
- Envelope Amount (**ENV AMT**)
- **FM PARTIAL**

**i** The *Body* envelope doubles as *Amp Envelope* for FM sounds.

Pressing Shift+Focus turns on **VELOCITY** control for both FM envelopes. There are three Velocity amounts to choose from – 1, 2 and 3 (both LEDs being lit).

## FM ALGORITHMS

To access the edit view for an **FM** synth sound, press **WAVE|USER** (Shift+Sound Select dial). There are ten distinct FM algorithms to choose from, using the **WAVE|USER** dial.

Algorithm	Description
1	A single operator pair with feedback on the modulator (Spectra).
2	Three operators in series, with feedback on the first (Spectra) operator.
3	Two modulators (Body with feedback and Spectra) operating on the carrier in parallel.
4	Two modulators (Body and Spectra with feedback) operating on the carrier in parallel.
5	A single Body operator with feedback and a Spectra operator pair converge into the carrier.
6	A single Body operator and a Spectra operator pair, with feedback on the modulator, converge into the carrier.
7	A single Spectra operator and a Body operator pair, with feedback on the modulator, converge into the carrier.
8	A single Spectra operator with feedback and a Body operator pair converge into the carrier.
9	Two parallel operator pairs added together, with feedback on the Body operator
10	Two parallel operator pairs added together, with feedback on the Spectra modulator

## FM AMOUNT AND FM PARTIAL



The **FM AMT** (FM Amount) knob controls the amount of static modulation applied by the *Spectra* and *Body* operators, in a given algorithm.

Using the 2-Op algorithm, with FM Amount at zero, FM Envelope Amount at zero and no feedback a pure sine wave is produced. Increasing the FM Amount increases harmonics.

**FM PART** (FM Partial) determines the partial as a multiple of the fundamental (**1.00**) for the *Spectra* and *Body* operators respectively, as determined by the current **FOCUS**. In addition to the partial settings, a range of *fixed frequencies* are available, after the final partial option (**24.00**).

Range, partials: 0.25, 0.50, 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.25, 2.50, 2.75, 3.00, 3.50, 4.00, 4.50, 5.00, 5.50, 6.00, 7.00, 7.50, 8.00, 8.50, 9.00, 10.00, 11.00, 12.00, 14.00, 16.00, 20.00, 24.00

Range, fixed frequencies: 35 Hz to 950 Hz

📍 The fixed frequencies are useful for adding a non-keyboard tracking element to the FM sound, for instance when replicating the mechanical component of an electric piano sound, or for inharmonic, metallic sounds.

## ADDITIONAL FM PARAMETERS

Depending on selected algorithm, a set of additional parameters are available from the FM edit view (Shift+press on Sound Library dial). These parameters are adjusted by focusing their respective *soft button* and turning the **PROGRAM** dial. The options are divided into three pages, navigated with the **PAGE** ◀ / ▶ buttons.



### PAGE 1 - BALANCE

The **Balance** parameter determines the relative levels of the Body and Spectra sides of the algorithm respectively.

Range: -10.0 to +10.0

### PAGE 1 - FEEDBACK

All algorithms come with a **Feedback** parameter, which introduces self-modulation – *feedback* – for one of the operators.

In general, using feedback is a way of increasing the amount and complexity of harmonics.

Range: 0.0 to 10.0

### PAGE 1 - OP1 AND OP3

The partial or frequency of operators 1 and 3 can be set to values other than the fundamental (**1.00**) setting, by focusing OP1 or OP3 respectively and turning the Program dial.

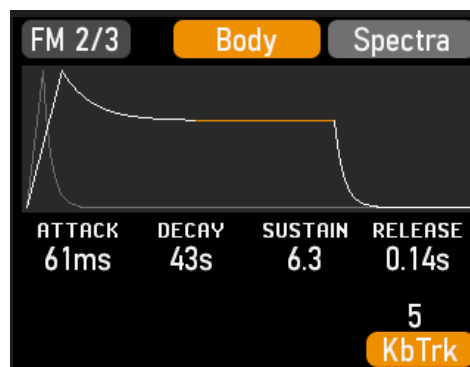
The fixed frequencies for OP1 and OP3 have been chosen from a lower frequency range than those for OP2 and OP4, appropriate for slowly fluctuating sounds.

Range: 0.50, 1.00 to 15.00, 0.30 Hz to 5.55 Hz

## PAGE 2 - ENVELOPE KEYBOARD TRACKING (KBTRK)

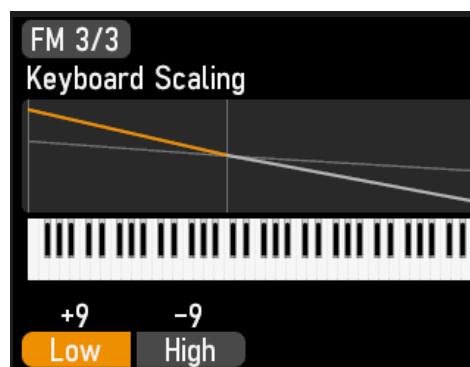
The second FM edit page provides an overview of the current envelope settings for the Amp/Body and Spectra envelopes respectively - focused by pressing the **FOCUS** button.

Raising the **KbTrk** (Envelope Tracking) parameter introduces a difference in envelope *Decay* and *Release* times from low to high notes on the keyboard.



At zero, all envelope times are static regardless of played note, while at higher settings the Decay and Release times for lower notes are *increased* and the times for higher notes are proportionally *decreased*.

Range: 0-10



## PAGE 3 - MODULATION KEYBOARD SCALING

The third FM edit page contains settings for adjusting the amount of modulation scaled across the keyboard, useful for maintaining the desired timbre across registers when creating or adjusting sounds.

The **Low** parameter controls the amount of modulation scaling for the range below middle C and can be set from 0 (no modulation scaling) to *positive* values up to 10, which increases the amount of modulation (and therefore often the brightness) for lower notes.

Range: 0 to 10

The **High** parameter controls the modulation scaling for the range above middle C, from 0 (no scaling) to *negative* values down to -10, gradually decreasing the amount of modulation for notes in the upper range

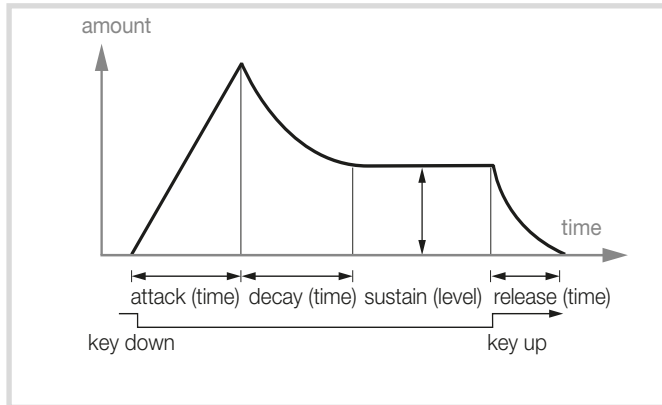
Range: 0 to -10

With both parameters at zero, the modulation index is the same regardless of register.

📍 The fixed gray line in the display indicates what are considered the "default" values: +3 for Low and -3 for High.

## THE ENVELOPES

The envelopes are used for shaping the sound *over time*, from when a key is played to after it has been released. The diagram below illustrates the role of each parameter - attack, decay, sustain and release - throughout the course of the total envelope time.



The Synth section has two separate envelopes, the **AMP/BODY** envelope and the **FILTER/SPECTRA** envelope. Use the **FOCUS** button to toggle the edit focus between them.

The **AMP** envelope controls the sound level or *amplitude* of the Synth sound over time.

⚡ For most FM algorithms, the Amp envelope doubles as an additional FM envelope, used for the modulation applied by the Body operator within that algorithm. See the previous “Body And Spectra” section for further details.

With a Sample or Analog sound, the **FILTER** envelope modulates the *filter cutoff frequency* over time.

With an FM sound, the **SPECTRA** envelope controls the amount of *modulation applied by the Spectra operator*.

The envelopes are visualized by the display when edited, with the focused envelope overlaid on top of the non-focused one. This makes it easy to sync or compare settings for one envelope in relation to the other.

### ATTACK, DECAY, SUSTAIN AND RELEASE TIMES

Both envelopes have their distinct settings for Attack, Decay, Sustain and Release times, and the principles for how they work is the same for both.

#### ATTACK

Attack sets the time it takes for the envelope to reach maximum level after a key has been pressed. Turning the **ATTACK** knob clockwise increases the Attack time.

#### DECAY

When the attack phase is over, and the key is still held down, the envelope amount begins dropping down to the Sustain level. Use the **DECAY** knob to set the time this should take. If the Decay time is set to maximum, the envelope will be in *Sustain* mode, meaning that it stays on a constant value until the key is released.

#### SUSTAIN (SHIFT+DECAY)

After the Decay phase, the envelope amount remains at the *level* defined by the **SUSTAIN** (Shift+Decay knob) parameter until the key is released.

⚡ Samples load with the Sustain level set to zero, but with Decay set to its maximum value, which corresponds to a sustaining sound. This allows for quickly creating a decaying sound, by lowering the Decay time, without altering the Sustain level.

#### RELEASE

When the key is released, the envelope enters the release stage. The release time determines how long it takes for the envelope to reach its minimum value and is set with the **RELEASE** knob.

### ENVELOPE AMOUNT (ENV AMT)



For **FM** sounds, the **ENV AMT** control determines the amount of modulation applied by the Body and Spectra envelopes respectively, depending on the Envelope **FOCUS**.

For **ANALOG** sounds, and **SAMPLES** if the Filter has been turned on, Env Amt determines the amount of modulation applied to the Filter by the Filter Envelope.

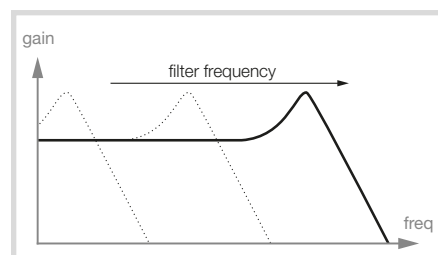
## FILTER

The Nord Electro 7 features a 24 dB per octave, resonant low-pass filter. This is one of the most commonly used filter types in analog synthesis, providing a wide range of classic sounds.

### FILTER FREQUENCY



The filter **FREQ** knob is used for setting the *cut-off frequency point* – that is where in the frequency range the filter begins to process frequencies. The actual result of this processing depends on the type of filter used.



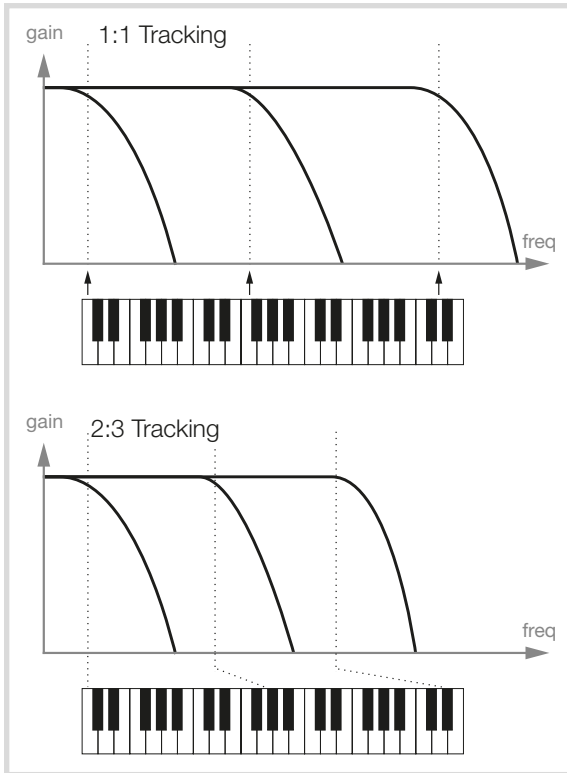
The image above illustrates three different Filter Frequency settings using a low pass filter. The area to the left of the downward slope indicates frequencies that pass through the filter. The area to the right of the slope are those frequencies that are reduced. The “humps” at the top indicate a resonance setting.

### KEY TRACKING (KBTRK)

The Key Tracking (**KbTrk**) parameter is found on the second page of the **WAVE|USER** view for Analog and Sample sounds.

The reason for controlling *key*, or *keyboard tracking* is related to basic acoustics. If the pitch of a waveform is raised, the harmonics naturally raise in frequency as well. If the cutoff frequency is constant, the sound will be perceived as getting “muddier” the higher up the keyboard you play. To avoid this effect, use Key Tracking.

## KEY TRACKING SETTINGS



**Off:** The filter frequency cut-off point is not altered by the note played.

**1/3:** The cut-off frequency tracks the keyboard in a 1:3 relationship. Play one octave higher and the cutoff frequency will move by 1/3 of an octave.

**2/3:** The cut-off frequency tracks the keyboard in a 2:3 relationship, play one octave higher and the cutoff frequency will move by 2/3 of an octave.

**3/3:** The cut-off frequency tracks the keyboard at a 1:1 ratio.

## FILTER RESONANCE



The Resonance (**RES**) parameter is used to further adjust the characteristics of the filter. Increasing the Resonance will emphasize frequencies around the cutoff frequency, making the sound thinner.

Further raising the Resonance will make the sound resonant to a point where the filter starts to self-oscillate and produce a ringing pitch. Exactly where in the frequency spectrum this “ringing” occurs, depends on the Frequency value.

## FILTER DRIVE

Activating Filter Drive (Shift+Resonance knob) adds distortion to the Filter stage.

# 7 PROGRAM



The centrally located Program section provides access to performance functions such as loading and storing programs, access to Live programs, keyboard split functionality and more. This is also where menus containing *System*, *Sound*, *MIDI* and *Pedal* settings are found as well as the Organize mode, used for rearranging Programs. The menus and their settings are covered in a separate chapter, starting on page 42.

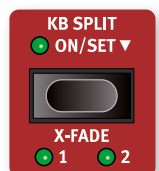
## TRANSPOSE ON/SET



The Nord Electro 7 can be transposed in +6/-6 semitone steps on a per-program basis. To set the transpose value, press and *hold down* **ON/SET** and then use the dial to choose a setting. Pressing **ON/SET** turns the function On or Off. Transpose settings are saved and recalled as part of a program.

*To set up a transpose that affects **all** programs, use the Global Transpose parameter in the System Menu.*

## KB SPLIT



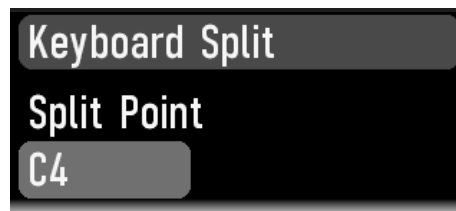
The Nord Electro 7 keyboard can be split into two zones, where each section (Organ, Piano, Synth) can be assigned to either or both of these zones, allowing for many different combinations of layered and split sounds.

## KEYBOARD SPLIT SETTINGS

Press the **ON/SET** button to activate a split and hold it down, as indicated by the arrow symbol, to open up the Keyboard Split page in the display.

### CHOOSING A SPLIT POSITION

Use the dial to choose one of the 9 keyboard split positions, *F2-F6*. LEDs are provided above the keyboard, indicating which split position is active.



### SPLIT X-FADE SETTINGS

Normally the transition between two keyboard zones is immediate, with no overlap between the sounds selected for each zone. By activating *X-Fade* (cross-fade), sounds can instead be mixed or “cross-faded” across the split point, creating a smoother transition between sounds.

There are three different settings, selectable by pressing **X-FADE** (Shift+Split On/Set):

*Off:* When X-Fade is off there is no cross-fade between sounds.

1: The 1 setting represents a cross-fade range of  $\pm 6$  semitones. The sound *below* the split point fades out across 6 notes *above* it and sounds *above* the split point will similarly reach 6 notes *below* it.

2: The 2 setting provides a range of  $\pm 12$  semitones, 12 below the split point and 12 above it.

## STORE



The **STORE** button is used for storing an edited program to a location in the program banks. Storing a program overwrites existing data at the selected memory location.

**i** When the Nord Electro 7 is shipped from the factory its memory is protected. To be able to store Programs the Memory Protect parameter needs to be set to "Off" in the System menu. Read more about this on page 42.

## STORING A PROGRAM

Here is how to store a program *without* changing its name:

1 Press the **STORE** button once. The Store LED will start blinking, and the display will show the name of the program and its location.



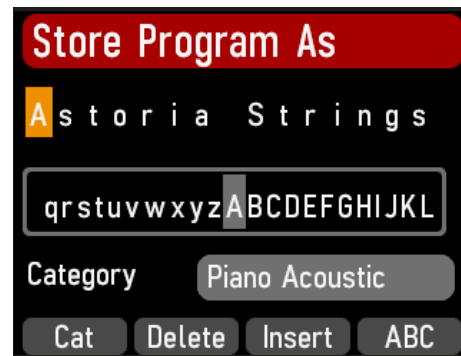
2 To select a different store location use the dial and/or the **PROGRAM 1-5** buttons. A program can also be stored to one of the Live program locations by pressing the **LIVE MODE** button and then selecting the desired Live program. The program at the selected destination can always be auditioned by playing the keyboard.

**i** To cancel an ongoing Store operation, press **EXIT**.

3 When a suitable location has been selected, press **STORE** again to confirm the operation

## NAMING A PROGRAM (STORE AS...)

- 1 To store *and name* your program press **STORE AS...** (Shift + Store).
- 2 Press and hold the **ABC/abc** soft button to bring up a row of alphanumeric characters. Turn the dial to select the character for the current position. The **PROGRAM** dial can be pressed for quickly switching between upper and lower case.
- 3 Release the **ABC/abc** button to advance to the next character. The dial can be used to move the cursor freely. The **Insert** soft button is used for inserting a blank space at the cursor position and the **Delete** soft button is used for deleting the selected character.



- 4 To assign a category to your program, hold down the **Cat** button and select a category using the dial.
  - 5 Press **STORE** to bring up the *Store Program To* screen. Use and/or the Program buttons to select a location. Note that the sound at the selected location can be auditioned by playing the keyboard.
  - 6 When a suitable location has been selected, press **STORE** again.
- Naming programs can also be done with the Nord Sound Manager.*

## SHIFT/EXIT BUTTON



Many controls have a *secondary* function which is accessed by holding **SHIFT** and pressing the button or turning the dial. Shift functions are always printed *below* the corresponding control. For example, holding Shift and pressing the Program 3 button will open up the Sound Menu. The Shift button is also used to **EXIT** menus, or for cancelling Store operations.

## EXPRESSION PEDAL ASSIGN

Organ swell, Piano and Synth Level, Synth Filter cutoff frequency as well as a range of parameters in the Effects section can be controlled by an attached expression pedal.

Parameters that can be set as a target for the Expression Pedal are equipped with a green LED, next to the parameter knob. The Mod 1 effect **RATE/WAH** is one such example.



Here is how to set up and remove an assignment:

- 1 Set the target parameter to the desired value at the maximum level of the Expression Pedal.
- 2 Press and hold the **EXP PEDAL ASSIGN** button.

- ③ Turn the knob corresponding to the desired target parameter *clockwise*.
- ④ The pedal will now control the parameter, from zero at the bottom position of the pedal to the value defined by the knob at the maximum position.
- ⑤ To remove the assignment, press and hold the **EXP PEDAL ASSIGN** button and turn the parameter knob *anti-clockwise*.

To remove all Expression Pedal assignments from a program. Press **CLEAR** (Shift+Exp Pedal Assign).

The following parameters are available as Expression Pedal assignments:

Organ	Piano	Synth	Effects
Swell	Level	Level	Mod 1 Rate/Wah
		Filter Freq	Mod 1 Amt
			Mod 2 Rate
			Mod 2 Amt
			Delay Tempo
			Delay Feedback
			Delay Dry/Wet
			Drive Amount
			Reverb Dry/Wet

## LIVE MODE



The Nord Electro 7 has five easy-to-access Live programs. These programs are special in that edits to them are *automatically stored*. When exiting a Live Program or powering off the machine all edits are saved, without the need for a manual Store operation. To select a Live Program, press **LIVE**

**MODE** and then any of the 1-5 buttons in the Program area.

A Live program can be stored to a location in the program banks using the standard Store methods (see above). Conversely, a regular program can also be stored into a Live program location.

## NUM PAD (NUMERIC PAD)

There are two distinct options for how programs and banks are navigated: The default “page based” mode and the *Numeric Pad* mode, activated by pressing **NUM PAD** (Shift+Live Mode).

In Numeric Pad mode the Program 1-5 buttons are used for entering any program number (11-55) within the current bank, rather than directly switching between the 5 programs on a page.

As an example, to select program 12 within the current bank, first press Program button 1 (to select page 1) and then Program button 2 (to select program 2 within that page). Here are some additional points:

- The **PAGE/BANK** buttons and the Program dial work the same regardless of mode.
- **LIVE MODE** programs are always directly selected using the 1-5 Program buttons.

## PROGRAM BUTTONS

The **PROGRAM 1-5** buttons give you immediate access to a range of five programs – a *Page* – within the current program bank. Buttons 1-4 are also used as *soft buttons* when operating menu settings. Read more about soft button functionality on page 11.

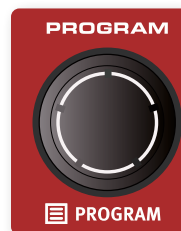
## WHAT IS A PROGRAM?

A *Program* contains references to the selected piano and/or sample sounds, Organ, Synth and effects settings as well as all other settings made on the panel except for Master Level. A program does *not* store settings made in the System, Sound, MIDI and Pedal menus.

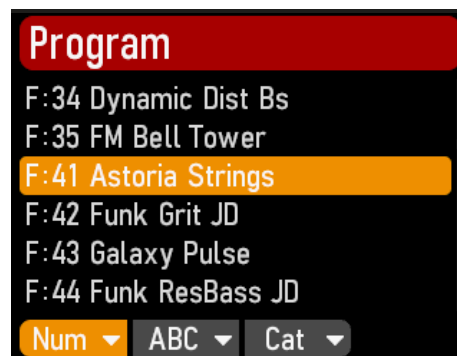
## SYSTEM, SOUND, MIDI AND PEDAL MENUS

Press **SYSTEM** (Shift+Program 1), **SOUND** (Shift+Program 2), **MIDI** (Shift+Program 3) or **PEDAL** (Shift+Program 4) to enter the System, Sound, MIDI or Pedal menu. To read more about the menus and all available settings, turn to page 42.

## PROGRAM



The **PROGRAM** push encoder to the right of the display is used for selecting programs, as well as for other tasks such as setting parameter values and for entering characters in program names. Pressing the dial activates the list function, which displays all programs in a list.



## PROGRAM LIST, ABC AND CAT

The **LIST** (press Program dial) view provides a good overview when browsing programs linearly (**Num** selected in the display) but also presents two additional sort modes: **Abc** (Program 2) and **Cat** (Program 3).

*Abc* sorts the list alphabetically while *Cat* displays all programs of the selected category. To select a specific character or category, hold down the **Abc** or **Cat** soft button respectively (as indicated by the “▼” symbols) and use the dial.

**i** The chosen sort mode is remembered when List view is entered again.

## PAGE/CAT AND BANK

The **PAGE** ◀ / ▶ buttons are used to navigate program *pages* – a page being a group of 6 programs. A Program **BANK** (Shift+Page) on the Nord Electro 7 contains 36 program locations divided into 6 program pages.

When in Program List view (see above) the Page buttons can be used for switching between Pages, alphanumeric characters or categories depending on which sort mode has been selected.

## AUX KB

The **AUX KB** (Auxilliary Keyboard) feature allows for playing and controlling individual sections on the Nord Electro 7 from an external keyboard connected to the MIDI input. This can be handy in live situations where a secondary keyboard can be used as a controller for parts of the Nord Electro 7, on a per-program basis.

**i** *The Electro 7 keyboard is not connected to, and has no effect on the section being assigned to the Aux KB function.*

### SETTING UP AUX KB

Here is how to use the Aux KB functionality within a Program:

① Open the **AUX KB** menu by pressing down Shift+Transpose and select an option for what to destination to control from the external unit:

- **Organ** – The entire Organ is played from the external keyboard.
- **Dual Organ: Lower** – The external keyboard controls the Lower Electro 7 manual, corresponding to **PRESET 2**. The Electro 7 keyboard plays the Upper manual, corresponding to **PRESET 1** and **DRWB LIVE**.
- **Dual Organ: Upper** – The opposite of above, i.e. the external keyboard plays the Upper manual and the Electro 7 keyboard the Lower.
- **Piano** – The Piano section is played from the external keyboard.
- **Synth** – The Synth section is played from the external keyboard.

② Make sure that the **AUX KB** function is turned on, by a single press on Shift+Transpose.

When a section is in Aux KB mode its KB Zone LEDs are lit with a red color.

**i** *The MIDI Channel for the Aux KB feature is set in the MIDI Menu on the Nord Electro 7. Read more on this on page 43.*

### ABOUT PEDALS AND OTHER DEVICES IN AUX KB MODE

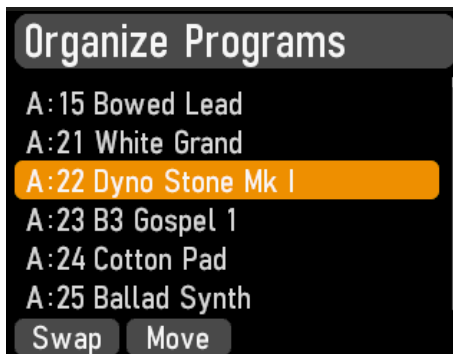
The Nord Electro 7 sustain pedal and Organ section swell/expression pedal will affect the selected sound engine *according to how the respective panel controls are set*. If **SUSTPED** is turned off on the panel, and if **[EXP PED]** has been turned off for the Organ section, these are only controlled by incoming MIDI on the Aux KB channel.

## ORGANIZE MODE

The **ORGANIZE** (Shift+Program 5) mode allows for moving or "swapping" programs within the program banks.

### ENTER THE ORGANIZE VIEW

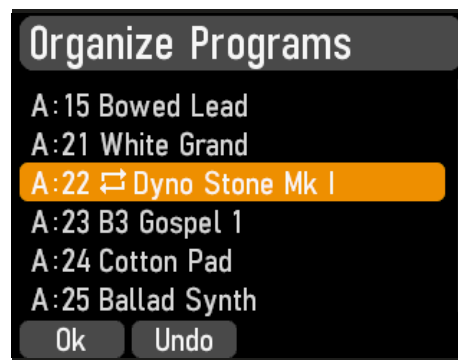
① Press **ORGANIZE** (Shift + Program 6)



### SWAP TWO PROGRAMS

A Swap operation interchanges the positions of two programs.

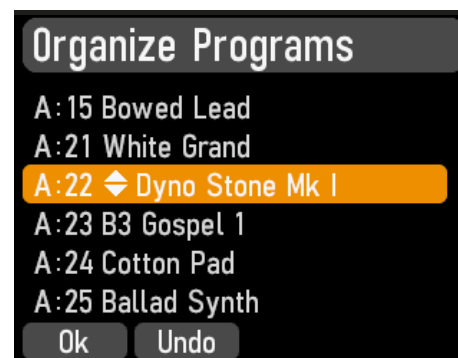
② Use the dial to select the program location which should be swapped with another and press **Swap**.



③ Use the dial to select the destination and press **Ok** to complete the Swap operation. Pressing **Undo** will instead cancel the operation.

### MOVE A PROGRAM

④ Use the dial to select a program which should be moved to another location and press **Move**



⑤ Select the *destination* location for the operation, using the dial, and press **Ok**. Pressing **Undo** will instead cancel the operation.

⚠ *Note that programs between the source and destination locations are shifted one step up or down, changing which programs are part of each page within the affected range.*

**i** *Programs can also be organized using the Nord Sound Manager.*

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## MIDI LED INDICATOR

 The **MIDI** LED, located below the Program dial, blinks as incoming MIDI messages are received by the MIDI In port, or over the USB connection.

# 8 EFFECTS



## OVERVIEW

Each section on the Nord Electro 7 has its own, independent, effects chain, enabling different effects and settings to be used for each sound source on the Nord Electro 7. The one exception is the **GLOBAL REVERB** effect which, as the name indicates, is globally shared by all sections in a Program. With the Reverb set to the **LAYER SEND** mode however, its Dry/Wet level can be set individually per Layer – all other Reverb settings still being shared.

## ACTIVATING EFFECTS AND GLOBAL MODE



To enable an effect, press its **ON** button.

The Compressor and Delay effects can be set to **GLOBAL** mode, which applies the effect to active sections. This is done by pressing Shift+On for that effect. When turning Global mode off all sections will share the same settings for that effect, until modified manually.

Each section on the Nord Electro 7 has its own, independent, effects chain, enabling different effects and settings to be used for each sound source on the Nord Electro 7.

## FX FOCUS AND FX BYPASS

Pressing **FX FOCUS** focuses the Organ (**ORG**), Piano (**PNO**) or Synth (**SYN**) effects for editing respectively.

**FX BYPASS** (Shift+FX Focus) can be pressed for instantly turning on or off all effects at once. Useful for monitoring how a Program sounds without active effects.

## EXPRESSION PEDAL CONTROL

Many parameters in the Effects section can be controlled by an attached Expression Pedal. See page 29 for details on how to set up or clear Expression Pedal assignments.

## MOD 1

The **MOD 1** unit offers five different types of modulation effects. Use its Selector button to switch between the available settings, the **RATE/ WAH** knob to set the rate (or sensitivity in case of the **WAH** effect) of the selected effect and the **AMOUNT** knob to set the amount or intensity of the effect.

💡 Both the Rate/Wah and Amount controls can be assigned to an attached Expression Pedal.



## PAN 1 & 2

**PAN 1** is an automatic panning modulation which smoothly moves the signal between the left and right sides of the stereo panorama.

The **PAN 2** setting provides a harder panning option, more in line with the traditional “vibrato” effect often used with electric pianos.

## TREM (TREMOLO)

**TREM** (Tremolo) provides a smooth volume modulation that continuously varies the volume level of the output signal. Tremolo is a very common effect to use with electric pianos.

## WAH

The **WAH** (Wah-Wah) effect gives the sound a characteristic, “Quack”-like character and can be extremely useful on electric pianos and Clavinets. The Wah-Wah modulation is produced by a resonant lowpass filter that can be swept across the frequency range using the Mod 1 **RATE** knob. During the sweep, the filter’s characteristics also changes.

The Wah effect uses the signal’s amplitude to control the filter sweep range, making the effect “velocity sensitive” (technically referred to as an “envelope follower”).

*This effect can also be used as a traditional Pedal Wah with an Expression Pedal connected and assigned to the Rate/Wah parameter. See page 29 for details on how to set this up.*

## RM (RING MODULATION)

Ring Modulation (**RM**) is a type of modulation where two signals are multiplied with each other, resulting in an in-harmonic “bell like” sound. On the Nord Electro 7 the instrument signal is multiplied with a sine wave.

The Rate knob adjusts the frequency of the modulating sine wave.

## MOD 2

**MOD 2** provides a selection of modulation effects, including Phaser, Flanger, Chorus, Vibe and an Ensemble effect. Each effect has its rate controlled by the Mod 2 **RATE** knob while the **AMOUNT** knob controls the intensity of the effect.

*Both the Rate and Amount controls can be assigned to an attached Expression Pedal.*



### WIDE

By default all effects in the Mod 2 unit operate in *mono*. Press **WIDE** (Shift+Mod 2 selector) to change to wide, stereo processing instead.

## PHASER

The **PHASER** effect produces a characteristic “sweep” effect, commonly used with electric piano sounds. The digital model for the phaser of the Nord Electro 7 is inspired by the classic Small Stone unit.

## FLANGER

The **FLANGER** produces a dramatic comb filter effect, giving the sound a “swooshy” and resonant quality.

## CHORUS

The versatile **CHORUS** effect gives the impression of “widening”, or with more extreme settings severely detuning, the sound – achieved by blending a number of modulated copies of the audio signal.

## VIBE

The **VIBE** effect draws its inspiration from a classic foot pedal effect and produces a sound with both pitch-bending and phasing qualities. The effect is created through a digital model of a staggered series of phasing filters, unlike the usually aligned filters of a normal phasing effect.

## ENSEMBLE

The **ENS** (Ensemble) effect is modeled after a vintage Eminent organ effect. The very characteristic sound comes from feeding the audio into three separate, modulated delay lines, that are cross-connected with each other.

## EQUALIZER/AMP SIM



## EQUALIZER

The three band **EQUALIZER** features controls for bass, a sweepable middle band and treble.

The **BASS** frequency is set to 100 Hz, the **TREBLE** frequency is 4 kHz and the sweepable middle band can be set between 200 Hz to 8 kHz, using its **FREQ** knob.

The boost/cut range is +/- 15 dB for all bands.

## AMP SIM

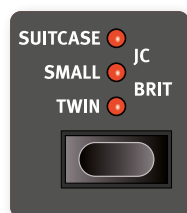
The **AMP** unit includes sophisticated amplifier and speaker cabinet simulations and versatile tube-like distortion. The amount of overdrive is controlled with the **DRIVE** knob. The LED indicates when the overdrive is active.

💡 *The Drive parameter can be controlled by an attached Expression Pedal.*

## TUBE OVERDRIVE

With no Amp Model selected the Amp unit provides a tube style overdrive effect which can be used for anything from subtle saturation to screaming distortion.

## AMP MODELS



There are five different amplifier/speaker simulations, each with its distinct character:

**TWIN:** A simulation of a classic twin speaker tube amplifier and accompanying 2x12 cabinet.

**SMALL:** Simulates the built-in tube amp and small speakers of a reed-based electric piano.

**SUITCASE:** Provides the sound of a Mk II Suitcase cabinet, coupled with a classic “P-style” preamp.

💡 *Use the Suitcase emulation in tandem with the Pan 2 effect of the Mod 1 unit for a traditional suitcase set-up, including the characteristic “vibrato”.*

**JC:** A simulation of a classic solid-state amplifier and 2x12 speaker cabinet, known for its distinctly clean and bright sound.

**BRIT:** A classic, British, plexi-style amplifier head coupled with a vintage 4x12 cabinet.

## COMPRESSOR



The **COMP** (Compressor) effect reduces the dynamic range of the sound, making low level signals louder and high level signals more quiet. This produces a tight, punchy sound and makes the overall level easier to control in a live mix situation.

The **ACTIVE** LED indicates when the Compressor threshold is surpassed and compression is applied to the source sound.

The Compressor effect can be set to **GLOBAL** (Shift+On) mode, which applies the same settings to all sections.

## DELAY

The **DELAY** unit produces echo/repeat effects. The Delay time is set by tapping the **TAP** button, or by pressing down on it and **SET** the tempo using the Program section dial.



The **FEEDBACK** knob controls the number of delay repeats. At the lowest setting only the initial repeat is heard, while the highest produces a very long feedback tail.

The **DRY/WET** knob adjusts the balance between the dry signal and the delay repeats.

💡 *The Delay Feedback, Dry/Wet and Tempo controls can be assigned to an attached Expression Pedal.*

The Delay effect can be set to **GLOBAL** (Shift+On) mode, which applies the current settings to all active sections.

## PING PONG

With **PING PONG** (Shift+Tempo) turned on, the delay repeats alternate between the left and right channels. If short delay times are used, these repeats will be “asymmetrical” and produce delays that are more like early reflections in reverb units.

There are three settings to choose from (**1**, **2** and **3** with both LEDs lit), giving an increasing amount of pan for the delay repeats.

## FB FILTER

The feedback filters, selected with the **FB FILTER** button, are great tools for shaping the delay sound, especially when large feedback amounts are used. Each consecutive Delay repeat is fed through the filter, resulting in a progressively more filtered sound.

With the **LP** setting, all delay repeats are passed through a *Low Pass* filter which reduces high frequency content in the delay feedback signal.

The **HP** setting provides a *High Pass* filter, removing low frequency content. This can be useful for making long delay tails sound less muddy.

The **BP** setting adds a *Band Pass* filter to the delay signal. This will reduce both high and low frequencies, making for a thin and narrow sound.

## TEMPO TAP

Use **TAP** to set a delay time matching the tempo of a song. The tempo is displayed both as a BPM (Beats Per Minute) value as well as in

milliseconds. Simply tap the Tempo button at the tempo you wish the Delay to sync to a number of times, and the Delay time will be adjusted automatically.

🔔 *A minimum of two taps is required for defining a tempo, but the button can be tapped as many times as needed for further fine-tuning of the delay time.*

## ANALOG MODE

There are two different delay modes, the normal (“non-analog”) mode, and the **ANALOG** (Shift+Tap/Set). In Analog Mode the pitch of any sounding repeats is altered if the tempo is changed – much like with a vintage analog delay. What’s more, the exact character of each feedback Filter setting differs slightly from when in “non-analog” mode. In Analog Mode a slight distortion is also introduced into the delay line with each tap – especially noticeable with larger feedback amounts.

## GLOBAL REVERB

The **GLOBAL REVERB** unit simulates the natural sound reflections in various acoustic environments. The Reverb is a “global” effect, which is to say that its settings are shared by *all* active sections, unless Layer Send is active (see below) in which individual Dry/Wet amounts can be set per section.

🔔 *The Reverb Dry/Wet Level can be assigned to an attached Expression Pedal.*



## REVERB TYPES

There are five different Reverb types to choose from:

**SPRING:** The Spring setting reproduces the sound of a traditional spring reverb tank, a common feature on tonewheel organs, in guitar amplifiers and in many other kinds of equipment.

**ROOM:** In Room mode the Reverb has the character of a medium sized room with a relatively short decay time.

**STAGE:** The Stage Reverb has a medium length decay time and a natural sounding room ambience.

**HALL:** The Hall setting has the response and character of a spacious hall, with a long decay.

**CATH:** The Cathedral is a very large and immersive reverb, with a very long decay time.

## BRIGHT/DARK AND CHORALE

The **BRIGHT** or **DARK** mode can be used for all Reverb types to alter the frequency response of the Reverb. Set to Bright, low frequencies are slightly dampened and more high frequency content is preserved in the Reverb signal. The Dark mode instead dampens high frequencies.

The **CHORALE** setting (Shift+Reverb Type) increases the pitch modulation of the Reverb signal for a more lively and effected sound.

## LAYER SEND

Even though the Reverb on the Nord Electro 7 is a global effect – with shared settings for all Layers – individual Dry/Wet amounts can be set per Layer. This is achieved by activating **LAYER SEND** (Shift+On) and then adjusting the Dry/Wet amount manually per Layer.

When Layer Send is turned off, the Dry/Wet amount for the currently focused Layer is applied to all Layers.

## ROTARY SPEAKER

The Rotary Speaker effect accurately reproduces the sound of the rotating horn and bass rotor, as well as the characteristics of the built-in amplifier of the original rotary construction.

The Rotary Speaker is turned On or Off by pressing the **ROTARY On** button.

The source for the Rotary Speaker can be Organ, Piano or Synth, and is changed by pressing Shift+Rotary to select **ORG**, **PNO** or **SYN** respectively.

## ROTARY SPEED CONTROL

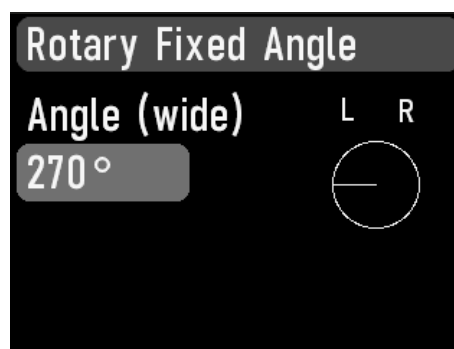
Switch between fast, slow and stopped rotor speeds by pressing the **FAST**, **SLOW** and **STOP** buttons.

A **SUSTAIN** pedal or a foot switch connected to the **ROTARY CTRL/ FOOT SW** input can be used for controlling the rotor speed.

The optional Nord Half Moon Switch can be used for switching Rotary speed in an even more traditional fashion. Read more about rotor control on page 45.

## FIXED ANGLE

To have the speaker sound exactly the same every time the rotors are stopped, activate **FIX ANGLE** by pressing Shift+Stop. To adjust the angle, press and hold Fix Angle to open the **Rotary Fixed Angle** page, where the stop angle can be adjusted freely between 0-360 degrees, by turning the **PROGRAM** dial.



## MICROPHONE POSITIONS

The Nord Electro 7 Rotary Speaker has three distinct microphone positions to choose from, using the **MIC POS** selector. Each position, **CLOSE**, **WIDE** and **XY** provides its own character in terms of frequency response and stereo image.

**i** *Unlike most other panel controls the Microphone Position is system global, meaning that it is not stored per-program.*

**?** *The **XY** microphone position is highly mono compatible and suitable for scenarios where a very centered rotary speaker sound is desired.*

## DRIVE

The **DRIVE** knob controls the amount of overdrive. This simulates the pre-amplifier overdrive of the original rotary speakers.

**?** *In addition to the Rotary Drive, the Equalizer/Amp Sim Drive effect can be used in combination with the rotary speaker sound, if even more grit is desired.*

**i** *The Rotary Drive parameter is dependent on the processed instrument's Level setting. If the instrument being processed by the Rotary is set to a very low level, the amount of available drive will be significantly reduced. Again, this is very much like how it works on the original instruments and amplifiers - when you increase the organ level, e.g. by using a swell pedal, the amount of distortion from the Rotary effect increases.*

## ROTARY SPEAKER AND REVERB

On the Nord Electro 7, the Reverb effect is placed *before* the Rotary Speaker if the Spring Reverb type is being used. With all other Reverb types, the Reverb is placed *after* the Rotary Speaker.

## ROTARY MENU SETTINGS

There are several parameters in the Sound Menu that allow for detailed adjustments of the behaviour and sound of the Rotary Speaker. Read more about on this on page 42.

# 9 MIDI

## MIDI FUNCTIONS

The Nord Electro 7 can be used as a master keyboard to control other hardware units or software sound sources, and it is also possible to control the Nord Electro 7 from a separate keyboard or MIDI device.

### GLOBAL CHANNEL

The Global MIDI channel is used both for transmitting and receiving MIDI information, at the same time. It allows for external control over every aspect of the Nord Electro 7 – much like playing its own keyboard – and is used for sending keyboard, pedal and panel actions to another MIDI device or sequencer.

*MIDI messages are transmitted and received on both the USB and MIDI In/Out connections simultaneously.*

### RECORDING A NORD ELECTRO 7 PERFORMANCE TO A MIDI SEQUENCER OR DAW

Here is how to record a Nord Electro 7 performance including any pedal actions and parameter adjustments to a DAW or MIDI sequencer.

- 1 Set the DAW or sequencer to use the Nord Electro 7 USB MIDI driver, if connected through USB, or the appropriate MIDI interface if connected through the 5-pin MIDI connectors.
- 2 Set the DAW or sequencer track to route back incoming MIDI on the MIDI channel set on the Nord Electro 7.
- 3 Set Local Control to *Off* in the MIDI menu on the Nord Electro 7.
- 4 Select the Program on the Nord Electro 7 that you wish to use.
- 5 Start the recording on the sequencer.

**i** *If a Transpose value is set, either by the panel Transpose function or the Global Transpose setting in the System menu, its effect on MIDI depends on the “Transpose At” setting – see page 44.*

## MIDI MESSAGES

The following MIDI messages can be transmitted and received by the Nord Electro 7:

### NOTE ON/OFF

- Note On and Note Off messages including velocity are transmitted and received.

### CONTROLLERS

- From the System menu it can be determined whether the Nord Electro 7 should transmit and/or receive Control Change messages, see page 44.
- If a pedal is connected to the Expression Pedal Input, this is transmitted and received as Controller 11 (Expression).
- If a sustain pedal is connected to the Sustain Pedal Input, this – as well as the right pedal of a Nord Triple Pedal – is transmitted and received as Controller 64 (Sustain Pedal).
- Pitch Bend is received on both the Global and Aux KB MIDI channels and has effect on any active section with a +/-2 semitone range.
- Modulation is received on both the Global and Aux KB MIDI channels and will address the Synth section Vibrato.
- Almost all other controls (knobs and buttons) on the front panel are also transmitted and received as Control Change messages. This can be used for recording front panel actions into a MIDI sequencer. For a full list of MIDI Control Change messages, refer to page 47.

## AUX KB MIDI CHANNEL

The Aux KB MIDI channel is used for *receiving* incoming MIDI and can be used for addressing individual sections on the Electro 7 from an external MIDI keyboard. A more complete overview of Aux KB is found in the Program chapter, on page 31 but here is a basic example of how to set it up, in this case controlling the upper manual (corresponding to Preset 1 and Drwb Live) of the *Organ* section:

- 1 Connect an external MIDI keyboard to the MIDI In jack of the Nord Electro 7.
- 2 Open the **AUX KB** menu by pressing Shift+Transpose.
- 3 From the list of available Aux KB options, choose *Dual Organ: Upper*.
- 4 Open the **MIDI** menu by pressing Shift+Program 3 and navigate to page 3, “Aux KB MIDI Channel”.
- 5 Set the Aux KB MIDI channel to that of the transmitting MIDI device. The default setting is MIDI channel 2.
- 6 Make sure the **ORGAN** section is turned **ON**. The Preset 1 and Drwb Live drawbar sets are now played from the external MIDI keyboard. Preset 2 (Lower) as well as the Piano and Synth sections are controlled as usual from the Nord Electro 7.

**⚠** *If the Electro 7 is transposed using the Panel Transpose, the incoming MIDI on the Aux KB channel will also be transposed – regardless of how the “Transpose MIDI at” setting is configured in the MIDI menu.*

## PROGRAM CHANGE

Loading a Program or Live Program will send a Program Change message on the Global MIDI channel, each content type identified by its Bank MSB value. Conversely, incoming Program Change messages will select the corresponding content on the Nord Electro 7.

One MIDI program bank encompasses five banks of 25 programs each on the Nord Electro 7, with program numbers 1-125 being used. The message consists of three parts, as defined in the table below.

Synth Presets can also be accessed using Program Change, addressed using the distinct Bank Select MSB number associated with each Preset type.

	Program	Live	Sample	Analog	FM
Bank MSB (CC# 0)	0	1	2	3	4
Bank LSB (CC# 32)	0-5	0	0-x	0-x	0-x
Program Change	1-125	1-5	1-99	1-99	1-99

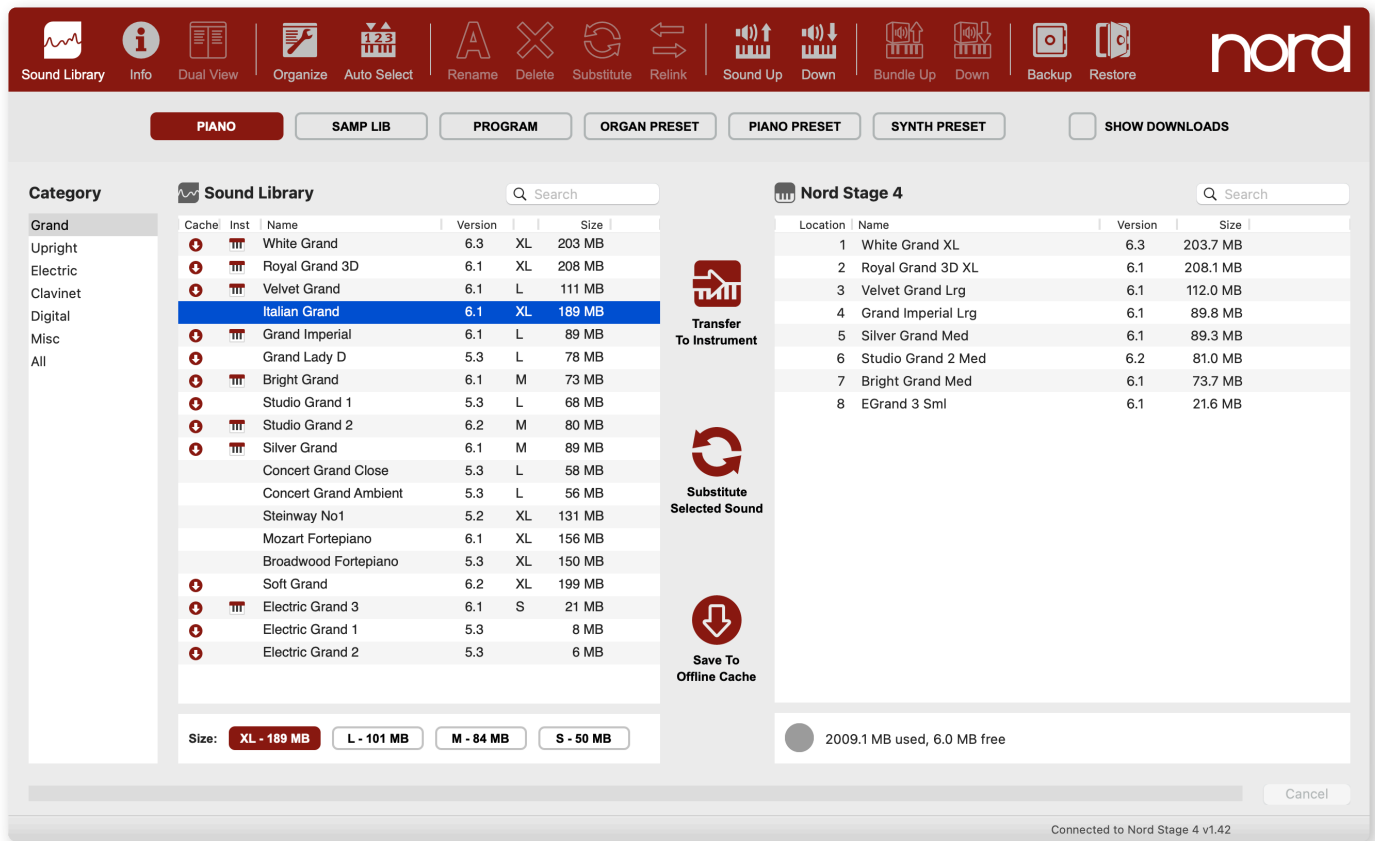
**i** *A Program Change message that reaches the Nord Electro 7 unaccompanied by Bank Select messages will take effect in the currently selected Program or Live bank.*

In the System Menu, you can select if the Nord Electro 7 should send and/or receive Program Change messages on the currently set Global MIDI channel. See page 43 for further details.

## LOCAL CONTROL ON/OFF

If Local Control is set to *Off*, the keyboard and panel on the Nord Electro 7 are “disconnected” from its sound engines. Use the *Off* setting when the instrument is set up in a MIDI loop, for instance when using it in conjunction with a DAW or sequencer. Local Control On/Off is set in the MIDI menu, which is described on page 43.

# 10 NORD SOUND MANAGER



## ABOUT NORD SOUND MANAGER

Nord Sound Manager is an essential application for any Nord Electro 7 owner, which allows for accessing, altering and backing up content within the various memory areas on the Nord Electro 7. The application also provides direct access to the Nord Piano Library and Nord Sample Library, enabling download of sounds directly from the online libraries to the instrument. These are some of the common tasks performed through the Nord Sound Manager:

- Organizing and naming Programs
- Downloading new Piano sounds to the Piano partition
- Downloading new Samples to the Sample partition
- Uploading Programs from the Nord Electro 7 to a computer
- Uploading *bundles* containing programs *and* their associated piano and sample files
- Performing backups of the entire instrument
- Restoring the entire instrument to a previous state

The Nord Sound Manager *and the user manual* for the application can be found at the [www.nordkeyboards.com](http://www.nordkeyboards.com) website, in the *Software* area.

## SYSTEM REQUIREMENTS

Mac OS X 10.13 or later

Windows 7-11

Nord USB Driver version v4.0 or later required for Windows. The driver comes bundled with the Nord Sound Manager installer as well as all OS installers, and can also be downloaded from [www.nordkeyboards.com](http://www.nordkeyboards.com).

# 11 NORD SAMPLE EDITOR 4



## ABOUT NORD SAMPLE EDITOR 4

The Nord Sample Editor 4 is a tool for creating custom sample instruments, playable on your Nord Electro 7. Simply press record or drop audio files (.wav or .aiff) on the desired keys, set Start, Stop and Loop points in the waveform editor and your custom sample is ready to be transferred to your connected Nord Electro 7!

Whether creating a fully mapped instrument, a simple FX sound or assigning a sampled song intro to a single key, the Nord Sample Editor 4 opens up many possibilities together with the Nord Electro 7. Here are some of the key features:

- Intuitive user interface
- Built-in recording functionality
- Drag and drop single or multiple samples
- Automatic and manual import options
- Edit multiple zones at once
- Support for silent zones

The Nord Sample Editor 4 can be downloaded from the *Software* section at [www.nordkeyboards.com](http://www.nordkeyboards.com).

## SYSTEM REQUIREMENTS

Mac OS X 10.13 or later

Windows 7-11.

Nord Keyboards USB Driver version v4.0 or later is required for Windows. The driver comes bundled with the Nord Electro 7 OS updaters, as well as with the installers for both Nord Sound Manager and Nord Sample Editor 4.

# 12 MENUS

Any settings that are made in the *System*, *Sound*, *MIDI* and *Pedal* menus will take immediate effect, and will be stored until they are changed again.

**i** *The Local Control MIDI setting is an exception and will always revert to "On" when the Nord Electro 7 is powered up.*

Enter a menu by holding **SHIFT** and pressing **SYSTEM**, **SOUND**, **MIDI** or **PEDAL** (Program buttons 1, 2, 3 and 4). Menus are navigated with the **PAGE** buttons and settings are changed with the **PROGRAM** dial. The Up (▲) and Down (▼) soft buttons are used for navigating the vertical list, where applicable. Exit a menu by pressing **EXIT** (Shift).

---

## SYSTEM MENU

### 1 - PROGRAM MEMORY (MEMORY PROTECT)

The Protect setting is *On* when a Nord Electro 7 leaves the factory, preventing accidental overwriting of programs. Setting this to *Off* enables Store operations. Menu settings and Live programs are not affected by this setting.

*Range: On (Default), Off*

### 2 - GLOBAL PITCH

#### TRANSCOPE

This setting allows for transposing the entire Nord Electro 7 in semitone steps. This setting will be *added* to any on-panel transpose value stored with a program.

*Range: +/- 6 semitones (Default value is "Off")*

#### FINE TUNE

Fine Tune can be used to fine tune the pitch of the Nord Electro 7 in finer increments.

*Range: +/- 50 Cents (+/- half a semitone). Default value is "0"*

### 3 - BRIGHTNESS

#### DISPLAY

The display brightness can be set to low, mid or high intensity, useful for adapting to different lighting conditions.

*Range: Low, Mid (default), High*

#### LEDS

The panel LEDs can be set to either low or high intensity, useful for adapting to different lighting conditions.

*Range: Low, High (Default)*

### 4 - AUDIO L/R OUTPUT

The Left and Right outputs of the Nord Electro 7 have a sensing mechanism for determining whether only one or both outputs are connected.

With the *Auto* output mode and cables connected to both outputs, a stereo signal is provided on the Left and Right outputs together. With only one cable connected, both outputs will provide identical mono signals.

In *Mono* output mode, identical mono signals are always provided on each output, which may be useful for live monitoring scenarios.

*Range: Auto (Default), Mono*

---

### 5 - VERSION AND MODEL INFO

The Version and model info menu page shows the full version number of the currently installed OS (Operating System). This page also displays a QR code which can be scanned with a mobile device, giving online access to this user manual.

---

## SOUND MENU

### 1 - PROGRAM LEVEL

Adjusts the total output level of the currently loaded Program by adjusting all of its section levels. Note that the Program needs to be stored for the adjustment to stick.

*Range: +/- 12 dB*

### 2 - ROTARY MOVEMENT

#### HORN SPEED

This determines the speed of the Rotary Speaker treble horn.

*Range: Low, Medium (default), High*

#### HORN ACCELERATION

This setting determines the acceleration and retardation time of the Rotary Speaker treble horn.

*Range: Low, Medium (default), High*

#### ROTOR SPEED

This determines the speed of the Rotary Speaker bass rotor.

*Range: Low, Medium (default), High*

#### ROTOR ACCELERATION

This determines the acceleration and retardation time of the Rotary Speaker bass rotor.

Range: Low, Medium (default), High

### 3 - ROTARY HORN/ROTOR LEVEL

#### BALANCE

This parameter sets the balance between the treble horn and the bass rotor, defined as a percentage.

Range: 70/30, 65/35, 60/40, 55/45, 50/50 (default), 45/55, 40/60, 35/65 and 30/70

### 4 - ORGAN KEYBOARD TRIGGER POINT

This setting determines how the Nord Electro 7 keyboard triggers Organ sounds. When "High" is selected, it will be triggered before the key is fully depressed, which is more similar to how a real B3 works.

Range: High, Low (Default)



High trigger point



Low trigger point

### 5 - ORGAN B3 SETTINGS

#### TONE-WHEEL

Sets the level of tonewheel crosstalk and cable leakage artifacts of the B3 organ model.

Range: Clean, Vintage 1 (default), Vintage 2

#### KEY CLICK

This sets the level of the Key Click for the B3 organ model.

Range: Low, Normal (default), High

#### KEY BOUNCE

This controls the Keyboard Bounce feature for the B3 Organ Model. When turned On, the key off click is accentuated on quick key releases.

Range: Off, On (default)

### 6 - ORGAN B3 PERCUSSION

#### NORMAL VOLUME

Sets the level of the B3 Percussion effect in its Normal setting.

Range: Low, Medium (default), High

#### SOFT VOLUME

Sets the level of the B3 Percussion effect in its Soft setting.

Range: Low, Medium (default), High

#### SLOW DECAY

Sets the Slow mode decay time of the B3 Percussion effect.

Range: Long, Medium (default), Short

#### FAST DECAY

Sets the Fast mode decay time of the B3 Percussion effect.

Range: Long, Medium (default), Short

### 7 - PIANO STRING RESONANCE LEVEL

Sets the level of the Piano String Resonance feature, which is available for Acoustic pianos in sizes Med, Lrg and XL.

Range: +/- 6 dB (0 dB Default)

### 8 - PIANO PEDAL NOISE

**i** For access to the Piano Pedal Noise feature, either the Nord Single Pedal 2 (Nord SP-2) or Nord Triple Pedal 1 (Nord TP-1) needs to be used and selected in the Sustain Pedal Type menu.

#### ENABLE

This setting turns the Piano Pedal Noise feature On or Off on a global basis. If turned On, and a Nord SP-2 or TP-1 is used, the Pedal Noise will be present in all instances when an acoustic or electric Piano sound is used.

Range: On, Off (default)

#### LEVEL

This setting determines the level of Pedal Noise present when pressing down on the sustain pedal and an Acoustic or Electric Piano sound is used.

Range: +/- 6 dB (0 dB default)

### 9 - PIANO AND SAMPLE INFO

#### PIANO

Shows the name, size, version number and size in megabytes of the selected Piano sound, along with any additional information.

#### SAMPLE

Shows the name, version number and size in megabytes of a selected Sample sound, along with any additional information.

---

## MIDI MENU

### 1 - MIDI CHANNELS

#### LOCAL CONTROL

MIDI Local Control determines if the Nord Electro 7 keyboard and panel will control internal sound engines and programs or only transmit MIDI. Local Control On is the normal "play mode". When Local Control is in Off mode, front panel and keyboard actions are transmitted via MIDI only.

Range: On (Default), Off

**i** Local Control always defaults back to "On" every time the Nord Electro 7 is powered on

## GLOBAL CHANNEL

This sets the transmitting and receiving MIDI channel for the Nord Electro 7. This MIDI channel transmits all keyboard, pedal and panel actions as MIDI signals. It can also be used as a receiving channel with full control of the entire Nord Electro 7.

*Range: 1-16, Off (Default 1)*

## AUX KB CHANNEL

This sets the receiving MIDI channel for the Nord Electro 7 Aux KB feature, which allows for controlling individual sections from an external MIDI keyboard. Read more about how to set up and use Aux KB on page 31.

*Range: 1-16, Off (Default 1)*

## 2 - MIDI SEND/RECEIVE MODE

### PROGRAM CHANGE

This setting determines whether your Nord Electro 7 transmits and/or receives MIDI program Change Messages, on the MIDI channel.

*Range: Off, Send, Receive, Send & Receive (Default)*

### CONTROL CHANGE

This allows you to set if you want your Nord Electro 7 to transmit and/or receive MIDI Controller Messages or not on the MIDI channel.

*Range: Off, Send, Receive, Send & Receive (Default)*

**i** Use the Type setting below to determine whether both single value CC messages, used for most panel controls, and NRPN messages used for certain panel functions should be sent or received. Read more about NRPN messages on page 47

### DEVICE CHANGE

This allows for setting whether the Nord Electro 7 should transmit and/or receive Device MIDI Messages or not on the Global channel. Devices refer to physical physical controllers, such as pedals, which generate and send MIDI but are excluded from the Control Change filtering.

*Range: Off, Send, Receive, Send & Receive (Default)*

### TYPE

Certain panel controls, especially Synth features that utilize the display, such as Analog waveform settings and FM parameters use NRPN messaging rather than standard Control Change to achieve their functionality. To achieve full functionality when operating the Nord 7 in Local Control Off mode, make sure that this setting is "CC & NRPN".

*Range: CC, CC + NRPN (Default)*

## 3 - MIDI SETTINGS

### TRANSCOPE AT

When set to *In*, active transpose values (global and/or set per program) are *not* applied to outgoing MIDI, but only to incoming MIDI data. In *Out* mode sent MIDI notes are transposed but not incoming ones.

*Range: In (Default), Out*

### OUTPUT VELOCITY

There are three options for how the velocity of outgoing MIDI notes is

scaled. When set to *Heavy*, the generated MIDI corresponds to the dynamic range of the Nord Electro 7 Piano engine, and this setting should be used when playing the Nord Electro 7 in Local Control "Off" mode from the local keyboard. The *Medium* and *Light* curves require increasingly less effort to generate higher velocity values

*Range: Standard (Heavy, Default), Medium, Light*

## PEDAL MENU

### 1 - EXPRESSION PEDAL

#### TYPE

The Nord Electro 7 accepts many of the most commonly available control pedals through its **EXPRESSION PEDAL** input. Choose a setting here that matches the pedal being used.

**i** If a connected pedal is operated while in this menu, a percentage indicating the range of the connected pedal is displayed.

*Range: Nord EP (Nord EP15 or Nord EP30, Default), Nord SP-2, Roland EV7, Yamaha FC-7, Korg, Fatar/Studiologic*

#### GAIN

This setting allows for adding some gain to the pedal signal. This can be useful if an attached pedal does not reach its maximum level or setting.

*Range: 1 - 10*

### 2 - SUSTAIN PEDAL

#### TYPE

This allows you to select the type of pedal connected to the **SUSTAIN PEDAL** jack, in case the functionality of the pedal is reversed (when the pedal is up, sustain is on and vice versa).

*Range: Nord SP-1 (Default), Nord SP-2, Nord TP-1, Normally Open, Normally Closed*

#### SINGLE/RIGHT

This setting determines the functionality of a connected single sustain pedal, or the rightmost pedal if the Nord TP-1 pedal is used.

*Range: Sustain (Default), Sustain+Rotor Toggle, Sustain+Rotor hold*

#### MIDDLE

**i** This option is only present if Sustain Pedal Type has been set to Nord TP-1.

Apart from the default *Una Corda* setting, this pedal can be used for a range of other useful functions.

*Range: Una Corda (Default), Rotor Toggle, Rotor Hold, Synth Vibrato, Program Up, Program Down*

#### LEFT

**i** This option is only present if Sustain Pedal Type has been set to Nord TP-1.

Apart from the default *Sostenuto* setting, this pedal can be used for a range of other useful functions.

*Range: Sostenuto (Default), Rotor Toggle, Rotor Hold, Synth Vibrato, Program Up, Program Down*

### 3 - ROTARY CTRL/FOOT SWITCH

#### TYPE

The **ROTARY CTRL/FOOT SWITCH** jack on the Nord Electro 7 accepts a variety of different pedals, with either one or two buttons/switches. The optional *Half Moon Switch* is also connected to this jack. Set the Type parameter according to the connected model.

If you are unsure of the polarity of the pedal, simply check whether the chosen functionality works as expected, if not select the other polarity (Open or Closed).

**i** *The Nord SP-2 pedal, and other continuous type pedals, are not compatible with the Foot Switch jack.*

*Range: Single Open (Default), Single Closed, Dual Open, Dual Closed, Half Moon*

#### SWITCH A

The Switch A parameter determines the function of an attached single pedal, or the first switch of a dual pedal.

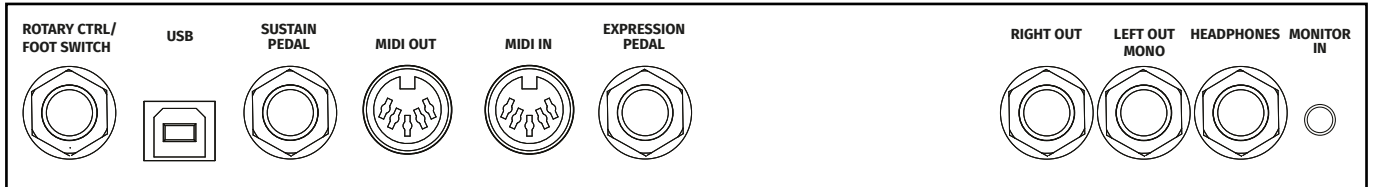
*Range: Rotor Toggle (Default), Rotor Hold, Synth Vibrato, Program Up, Program Down*

#### SWITCH B

The Switch B parameter determines the function of the second switch of a dual pedal and has no effect when a single pedal is connected.

*Range: Rotor Toggle (Default), Rotor Hold, Synth Vibrato, Program Up, Program Down*

# CONNECTIONS



## AUDIO CONNECTIONS

General guide on audio connections: Before turning on your amplifier, make all audio connections. Always turn on the amplifier last, and when shutting down, always turn off your amplifier or active speakers first.

**⚠** Using your Nord Electro 7 at high volumes can damage your hearing.

### HEADPHONES

1/4 inch stereo headphone jack. Audio is always output through the Headphones output, regardless of Audio Output settings.

### LEFT OUT/MONO & RIGHT OUT

1/4 inch unbalanced line level outputs for amplifier or recording equipment. The Nord Electro 7 is a stereo instrument with separate signal paths for left and right audio channels.

**i** If only the Left output is connected, the output signal is automatically summed to mono, when the Audio Output setting is set to "Auto" in the System menu, see page 42.

### MONITOR IN

1/8 inch jack for connecting devices such as smartphones, tablets or computers to the Nord Electro 7. This is useful for playing and rehearsing to pre-recorded music or a metronome, or to use an additional sound source on stage. The Monitor In signal is routed to the Headphones and Left & Right outputs.

**⚠** The Nord Electro 7 Master Level control does not affect the level of the Monitor In signal.

## MIDI CONNECTIONS

### MIDI IN

The 5 pin MIDI In connection is used for receiving MIDI data sent from external devices such as controller keyboards, sequencers and computers.

### MIDI OUT

The 5 pin MIDI Out connection will send MIDI data to devices such as external sound modules and computers.

## USB CONNECTION

The USB port is used for connecting the Nord Electro 7 to a computer. The connection can be used for transferring MIDI, for OS updates and for connecting to applications such as the Nord Sound Manager or Nord Sample Editor. These applications, and the latest OS version can always be found for download at [www.nordkeyboards.com](http://www.nordkeyboards.com).

**i** MIDI over USB and standard 5 pin MIDI connectors are both always active at the same time.

## PEDAL CONNECTIONS

### SUSTAIN PEDAL

1/4 inch connector for all common types of sustain pedals, as well as for the Nord Triple Pedal 1. Sustain pedal type and polarity is set in the Pedal menu, see page 44.

### EXPRESSION PEDAL

1/4 inch connector for an expression pedal of continuous type, such as the Nord EP15 or EP30, used for controlling section levels, organ swell or assigned to effect or Synth parameters. Most of the common expression pedal makes and models are supported, and can be selected in the Pedal menu, see page 45.

### ROTARY CTRL/FOOT SWITCH

1/4 inch connector for a one or two button, momentary pedal or the optional Half Moon Switch. The connected device can be used for changing Rotary Speaker speed, or by assigned as foot switch for other functionality. See the Pedal menu on page 45 for available options and details on how to set this up.



# APPENDIX: MIDI CONTROLLER LIST

The Nord Electro 7 implements both MIDI CC messages using only one controller per parameter, as well as messages using multiple controllers per parameter based on the NRPN (Non-Registered Parameter Number) standard.

In the table below, parameters written using one or more colons utilize NRPN for MIDI data transfer. The first number corresponds to CC#99 (NRPN MSB) and the second to CC#98 (NRPN LSB). The parameter *value* is defined by CC#38 (Data Entry LSB). Unless otherwise is specified, Data Entry MSB (CC#6) is expected to be 0.

A complete NRPN package consists of four messages: CC#99, CC#98, CC#6 and CC#38.

Nord Electro 7 Parameter	MIDI CC #	Nord Electro 7 Parameter	MIDI CC #	Nord Electro 7 Parameter	MIDI CC #
Volume	7	Piano Sustain Pedal Enable	36	Synth Analog B Waveform	3:56
Pan	10	Piano String Res Enable	41	Synth Analog B Semi	3:72
Sustain	64	Piano Timbre	27	Synth Analog B Detune	3:74
Soft Pedal	67	Piano KB Touch	49	Synth Analog B Level	3:75
Sostenuto	66	Piano Unison	25	Synth FM Algorithm	3:81
Ctrl Pedal (Expression)	11	Piano Dyn Comp	26	Synth FM Amount	3:20
Swell	4	Piano Select	2:32-34	Synth FM Body Env Amt	3:19
FX Focus	31			Synth FM Spectra Env Amt	3:20
FX Bypass	2:25	Synth Enable	61	Synth FM Body Partial	3:33
		Synth Level	43	Synth FM Spectra Partial	3:34
Organ Enable	9	Synth Octave Shift	57	Synth FM Feedback	3:32
Organ Level	13	Synth Sustain Pedal	42	Synth FM Balance	3:80
Organ Octave Shift	12	Synth Vibrato Enable	50	Synth Mode Select	3:18
Organ Sustain Pedal Enable	47	Synth Vibrato Rate	3:17	Synth Sample Select	3:4
Organ Swell Enable	48	Synth Vibrato Amount	3:16		
Organ Preset Select	59, 65	Synth Vibrato Delay	51	Mod 1 Enable	79
Organ Drawbar 1	16	Synth Vib Btn Activate	15	Mod 1 Type	80
Organ Drawbar 2	17	Synth Voice Mode	52	Mod 1 Amount	85
Organ Drawbar 3	18	Synth Glide Rate	108	Mod 1 Rate	86
Organ Drawbar 4	19	Synth Unison	53		
Organ Drawbar 5	20	Synth Dynamics	58	Mod 2 Enable	118
Organ Drawbar 6	21	Synth Envelope Focus	73	Mod 2 Type	83
Organ Drawbar 7	22	Synth Filt/FM Env Velocity	119	Mod 2 Amount	89
Organ Drawbar 8	23	Synth Amp Envelope Attack	68	Mod 2 Rate	90
Organ Drawbar 9	24	Synth Amp Envelope Decay	71	Mod 2 Wide	84
Organ Model	14	Synth Amp Envelope Sustain	69		
Organ Vibrato/Chorus Enable	44	Synth Amp Envelope Release	82	Amp/EQ Enable	105
Organ Vibrato/Chorus Type	60	Synth Filt/FM Env Attack	78	Amp/EQ Bass Gain	102
Organ Vibrato/Chorus Deep	62	Synth Filt/FM Env Decay	45	Amp/EQ Mid Gain	103
Organ Percussion Enable	87	Synth Filt/FM Env Sustain	109	Amp/EQ Mid Frequency	107
Organ Percussion Volume	34	Synth Filt/FM Env Release	46	Amp/EQ Treble	104
Organ Percussion Decay	33	Synth Filter Env Amount	39	Amp/EQ AmpType	110
Organ Percussion Harmonic	95	Synth Filter Enable	75	Amp/EQ Drive	106
Organ Percussion Poly	54	Synth KB Track	3:50		
		Synth Filter Frequency	76	Compressor Enable	116
Piano Enable	72	Synth Filter Resonance	77	Compressor Amount	117
Piano Level	56	Synth Filter Drive	3:49	Compressor Global	28
Piano Octave Shift	35	Synth Analog A Waveform	3:55		

Nord Electro 7 Parameter	MIDI CC #
Delay Enable	92
Delay Dry/Wet	93
Delay Rate	94
Delay Feedback	63
Delay Ping Pong	91
Delay Filter Type	88
Delay Analog	81
Delay Global	29
Reverb Enable	37
Reverb Type	3
Reverb Dry/Wet	113
Reverb Bright/Dark	30
Reverb Chorale	40
Reverb Layer Send Enable	112
Rotary Speaker Enable	111
Rotary Speaker Source	74
Rotary Speaker Drive	115
Rotary Speaker Speed	55
Rotary Speaker Fix Angle	2:24



# INDEX

## A

Acceleration (Rotary) 42  
 Alt Tone (Amp) 35  
 Amount (Vibrato) 23  
 Amp Sim 35  
 Analog (Delay) 36  
 Analog (Synth) 23  
 Arrows 10  
 Attack (Envelope) 26  
 Audio Connections 46  
 Aux KB 31  
 Aux KB MIDI Channel 38

## B

B3 15  
 B3 Bass 17  
 Balance (FM) 25  
 Bank 31  
 Bass (Equalizer) 34  
 Body 24  
 Brightness (Display, LEDs) 42  
 Bright (Reverb) 36  
 Brit 35

## C

Cat (Category) 29  
 Cath (Reverb) 36  
 Chorale (Reverb) 36  
 Chorus 1 & 2 34  
 Chorus (Organ) 16  
 Clavinet 19  
 Comp (Compressor) 35  
 Connections 46

## D

Dark (Reverb) 36  
 Decay (Envelope) 26  
 Delay (Effect) 34, 35  
 Delay (Vibrato) 23  
 Detune (Analog) 24  
 Digital (Piano) 19  
 Drawbars 15  
 Drive (Filter) 27  
 Drive (Rotary Speaker) 37  
 Drwb Live 15  
 Dynamics 22  
 Dyn Comp 20  
 Dyno 1 21  
 Dyno 2 21

## E

Effects Section 33  
 Electric (Piano) 19  
 Ens (Ensemble) 34  
 Envelopes (Synth) 26  
 Equalizer 34  
 Exit (button) 29  
 Expression Pedal Assign 29

## F

Factory presets 7  
 Farf (Farfisa) 17  
 Feedback 35  
 Feedback (FM) 25  
 Filters (Delay) 35  
 Filter (Synth) 26  
 Fine Tune (Global) 42  
 Fixed Angle 36  
 Flanger 34  
 FM 24  
 FM Algorithms 24  
 FM Amount 24  
 Foot Switch 46  
 Freq (Synth) 26

## G

Gain (Ctrl Pedal) 44  
 Getting Started 10  
 Glide 22  
 Global (Effects) 33  
 Global Reverb 36  
 Grand 19

## H

Hall (Reverb) 36  
 Headphones 46

## J

JC (Amp) 35

## K

KBD Touch 20  
 KB Split 28  
 KbTrk (FM) 25  
 KB Zone 22  
 Keyboard Scaling (FM) 25  
 Key Tracking (Filter) 26

## L

Layer Send (Reverb) 33, 36  
 Left Mono 46  
 Left & Right Out 46  
 Legato 22  
 Legato (Voice Mode) 22  
 List 11  
 List View (Piano) 20  
 Live Mode 30  
 Local Control (MIDI) 39, 43

## M

Master Level 10  
 Memory Protection 42  
 Menus 42  
 Mic Pos (Rotary Speaker) 37

MIDI 38  
 MIDI Controller List 47  
 MIDI In 46  
 MIDI LED indicator 32  
 MIDI messages 38  
 MIDI Out 46  
 Misc (Piano Type) 19  
 Mix (Analog) 24  
 Mod 1 (Effects) 33  
 Mod 2 (Effects) 34  
 Model (Piano) 19  
 Monitor In 46  
 Mono 22  
 Mono (Voice Mode) 22

## N

Nord Piano Library 19  
 Nord Sample Editor 4 7, 41  
 Nord Sound Manager 7, 40  
 Nord Triple Pedal 20  
 Nord Triple Pedal 1 20  
 NRPN (MIDI) 47

## O

Octave Shift 18, 22  
 OP1 (FM) 25  
 OP3 (FM) 25  
 Organ 14  
 Organ Model 14  
 oscillator B (Synth) 24  
 OS (Operating System) 7, 42  
 Overview 8

## P

Page 11, 31  
 Pan (Effect) 33  
 Partial (FM) 24  
 Percussion 43  
 Percussion (B3) 16  
 Phaser 1 & 2 34  
 Piano 18  
 Piano Info 21  
 Piano Select 19  
 Piano size 19  
 Ping Pong 35  
 Pipe Organ 17  
 Poly (Percussion) 16  
 Preset (Organ) 15  
 Preset (Synth) 23  
 Prog Init 31  
 Program 11, 30  
 Program (buttons) 30  
 Program Change 39  
 Program (dial) 30  
 Program dial 30  
 Push Encoder 10

## R

Rate (Vibrato) 23

Release (Envelope) 26  
 Res (Resonance) 27  
 Reverb 34, 36  
 RM (Ring Modulation) 34  
 Room (Reverb) 36  
 Rotary Speaker 36  
 Rotary Speaker (Sound Menu) 42, 43

## S

Samples (Synth) 23  
 Seamless Transitions 7  
 Semi (Oscillator B) 24  
 Shift (button) 10, 29  
 Small (Amp) 35  
 Soft B3 17  
 Soft buttons 11, 42  
 Soft Pedal 20  
 Sostenuato 20  
 Sound Library 23  
 Sound Menu 42  
 Spectra 24  
 Split Position 28  
 Spring (Reverb) 36  
 Stage (Reverb) 36  
 Store 29  
 Store As 29  
 String Resonance 19  
 Suitcase 35  
 Sustain Pedal 44, 46  
 Sustped 14, 18, 22  
 Swell (Organ) 15  
 Switch A 45  
 Switch B 45  
 Synth 22

## T

Tap Tempo (Delay) 35  
 Timbre (Clavinet) 21  
 Timbre (Piano) 21  
 Transpose 28, 30  
 Transpose (Global) 42  
 Treble (Equalizer) 34  
 Trem (Tremolo) 34  
 Triple Pedal 46  
 Tube Overdrive 35  
 Twin (Amp) 35  
 Type (Ctrl Pedal) 44

## U

Una Corda 20  
 Unison 22  
 Upright 19  
 USB connection 46

## V

Version and model info 42  
 Vibe 34  
 Vibrato Button 23

Vibrato (Organ) 16  
Vibrato (Synth) 23  
Voice Mode 22  
Vol/Ctrl Pedal 46  
Vox 16

---

## W

Wah (Wah-Wah) 34  
Waveforms (Analog) 23  
[www.nordkeyboards.com](http://www.nordkeyboards.com) 7

---

## X

X-Fade (KB Split) 28





## INFORMATION ON DISPOSAL FOR USERS



EN

This electronic device must be recycled or discarded according to applicable local and national regulations.

The symbol shown, applied to the product or on its packing, indicates that, at end of life, the product is not to be thrown away, or disposed as unsorted municipal waste, but separately collected.

Clavia DMI AB encourages owners of Nord musical instruments to responsibly recycle their equipments when they are no longer needed.

Disposing of this product correctly will prevent potential negative effects on the environment and human health which could arise due to inappropriate waste handling.

## INFORMATIONS SUR L'ÉLIMINATION POUR LES UTILISATEURS



FR

Cet appareil électronique doit être recyclé ou jeté selon les lois en vigueur dans votre pays.

Ce symbole appliqué sur le produit ou sur son emballage, indique qu'à la fin de la vie de ce produit, il ne doit pas être jeté avec les déchets ménagers mais qu'il doit être déposé dans un point de collecte.

Clavia DMI AB encourage les possesseurs d'instruments de musique Nord à recycler de façon responsable quand les appareils ne sont plus utilisés.

L'élimination correcte de ce produit permettra d'éviter les effets négatifs potentiels sur l'environnement et la santé humaine qui pourraient résulter d'une manipulation inappropriée des déchets.

## INFORMATIONEN ZUR ENTSORGUNG FÜR BENUTZER



DE

Dieses elektronische Gerät muss gemäß den geltenden lokalen und nationalen Vorschriften recycelt oder entsorgt werden.

Das abgebildete Symbol auf dem Produkt oder auf der Verpackung weist darauf hin, dass das Produkt am Ende seiner Lebensdauer nicht weggeworfen oder im Hausmüll entsorgt werden darf, sondern separat gesammelt werden muss.

Clavia DMI AB ermutigt die Besitzer von Nord Musikinstrumenten, ihre Geräte verantwortungsbewusst zu recyceln, wenn sie nicht mehr benötigt werden.

Die ordnungsgemäße Entsorgung dieses Produkts verhindert mögliche negative Auswirkungen auf die Umwelt und die menschliche Gesundheit, die durch eine unsachgemäße Abfallbehandlung entstehen könnten.

## INFORMACIÓN SOBRE LA GESTIÓN DE RESIDUOS PARA LOS USUARIOS



ES

Este dispositivo electrónico debe reciclarse o desecharse de acuerdo con la normativa local y nacional aplicable.

El símbolo que se muestra, aplicado al producto o a su embalaje, indica que, al final de su vida útil, el producto no debe tirarse a la basura, ni eliminarse como residuo municipal sin clasificar, sino recogerse por separado.

Clavia DMI AB anima a los propietarios de instrumentos musicales Nord a reciclar responsablemente sus equipos cuando ya no los necesitan.

La eliminación correcta de este producto evitará los posibles efectos negativos sobre el medio ambiente y la salud humana que podrían surgir debido a una manipulación inadecuada de los residuos.

## INFORMAÇÃO SOBRE GESTÃO DE RESÍDUOS PARA OS UTILIZADORES



PT

Este dispositivo electrónico deve ser reciclado ou eliminado de acordo com os regulamentos locais e nacionais aplicáveis.

O símbolo mostrado, aplicado ao produto ou à sua embalagem, indica que no fim da sua vida útil o produto não deve ser deitado fora ou eliminado como lixo municipal não separado, mas sim recolhido separadamente.

Clavia DMI AB encoraja os proprietários de instrumentos musicais Nord a reciclar responsabilmente o seu equipamento quando este já não é necessário.

A eliminação correcta deste produto evitará potenciais efeitos negativos sobre o ambiente e a saúde humana que possam surgir devido a um manuseamento inadequado dos resíduos.

## INFORMAZIONI PER GLI UTENTI RELATIVE ALLO SMALTIMENTO



IT

Questo dispositivo elettronico deve essere riciclato o smaltito secondo le normative locali e nazionali vigenti.

Il simbolo raffigurato, applicato sul prodotto o sul suo imballaggio, indica che, a fine vita, il prodotto non deve essere gettato o smaltito come rifiuto urbano indifferenziato, ma raccolto separatamente.

Clavia DMI AB incoraggia i proprietari di strumenti musicali Nord a riciclare responsabilmente le loro apparecchiature quando non sono più necessarie.

Lo smaltimento corretto di questo prodotto eviterà potenziali effetti negativi sull'ambiente e sulla salute umana che potrebbero derivare da una gestione inappropriata dei rifiuti.



### INFORMATION ON RECYCLING OF PACKAGING MATERIALS

EN

Outer box and internal cardboard protection should be recycled as paper.  
Internal plastic foam protection and plastic bags should be recycled as plastics.

### INFORMATIONS SUR LE RECYCLAGE DES MATÉRIAUX D'EMBALLAGE

FR

La boîte extérieure et la protection interne en carton doivent être recyclées comme du papier.  
La protection interne en mousse plastique et les sacs en plastique doivent être recyclés en tant que plastiques.

### INFORMATIONEN ZUM RECYCLING VON VERPACKUNGSMATERIALIEN

DE

Der äußere Karton und der innere Kartonschutz sollten als Papier recycelt werden.  
Interner Kunststoffschamschutz und Plastiktüten sollten als Kunststoffe recycelt werden.

### INFORMACIÓN SOBRE RECICLAJE DE MATERIALES DE EMBALAJE

ES

La caja exterior y la protección interna de cartón deben reciclarse como papel.  
La protección interna de espuma de plástico y las bolsas de plástico deben reciclarse como plásticos.

### INFORMAÇÕES SOBRE A RECICLAGEM DE MATERIAIS DE EMBALAGEM

PT

A caixa externa e a proteção interna de papelão devem ser recicladas como papel.  
A proteção interna de espuma plástica e os sacos plásticos devem ser reciclados como plásticos.

### INFORMAZIONI SUL RICICLAGGIO DEI MATERIALI DI IMBALLAGGIO

IT

La scatola esterna e la protezione interna in cartone devono essere riciclate come carta.  
La protezione interna in schiuma di plastica e i sacchetti di plastica devono essere riciclati come plastica.



FR

Ce produit  
NORD et ses  
cordons se  
recyclent

À DÉPOSER  
EN MAGASIN



OU

À DÉPOSER  
EN DÉCHÈTERIE



Points de collecte sur [www.quefairedemesdechets.fr](http://www.quefairedemesdechets.fr)  
Privilégiez la réparation ou le don de votre appareil !

# FCC Information (U.S.A.)

## 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Clavia may void your authority, granted by the FCC, to use the product.

**2. IMPORTANT:** When connecting this product to accessories and/ or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

**3. Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment is found to be the source of interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.

This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

## NOTICE

This Class B - digital apparatus complies with Canadian ICES-003.

## AVIS

Cet appareil numérique de la classe B - est conforme à la norme NMB-003 du Canada.

## DECLARATION OF CONFORMITY Compliance Information Statement

**Model Name:** Nord Electro 7 61

**Type of Equipment:** Digital Organ and piano

**Responsible Party:** Clavia DMI AB

**Address:** P.O. BOX 4214. SE-102 65 Stockholm Sweden

**Telephone:** +46-8-442 73 60

