

Operating Manual

idmix-vu



NUENDO₄



WK III AUDIO

Welcome

Thank you for choosing the WK-AUDIO ID-MIX!

The ID-MIX Controller by WK AUDIO is one of the most advanced software controller available today. Developed in tandem with Steinberg's Media Production software NUENDO 4, ID-MIX ensures unprecedented levels of integration. The unique versatility and advanced usability concept make ID-MIX suitable for any audio work, including post production, music tracking, broadcast and sound design.

ID-MIX is strongly leant to the "flagship" ID and such complement the product line of the ID family. The emphasis here, however, is the mixing operation.

Dedicated buttons for direct access to the new groundbreaking NUENDO 4 automation system as well as user-definable layouts and function keys give access to just about any parameter within seconds. ID-MIX will help you focus your attention where it belongs: on the audio you are recording or mixing.

The base here is the same fader module that is being used as well in the ID-Controller: 12 motorized, touch-sensitive faders are each equipped with a double spaced LCD display in which the name of a track is indicated as well as the module status. 12 additional encoders, each with a double spaced LCD and field display can be operated here as additional channel level controllers and be swapped per FLIP with the faders positioned underneath (24 level controllers with direct access!) But these encoders also serve to edit the equalizer, aux and studio buses as well as the plug-ins; such up to 1188 parameters can be controlled by the page encoder. Using the optionally available Fader Modules, you can extend your direct control and access up to 96 channels at once.

ID-MIX offers a range of innovative functions not found in other products of its type. The dual-purpose, touch sensitive function system allows keys such as the Solo and Mute/CUT buttons to function either as buttons or switches. If a key is pressed longer than 250ms, the key is engaged as a button that activates the function only as long as the key pressed; pressing the key for less than this time interval uses the key as a switch, toggling its state.

Functions like "Expand" or the "Global Mode" set new standards in terms of workflow and usability. The stunningly effective Expand function instantly lays all channels belonging to a group on consecutive faders on the mixing surface, regardless of where they are located in the NUENDO 4 project itself. The "Global Mode" provides the option to apply the gain, pan or an aux/studio bus for all channels together.

The integration of the control room section is also exemplary, with an input and output matrix as well as reduction keys for Mono/Stereo, Front/Rear, LFE and L-R, meaning that the corresponding features in the NUENDO master section are addressed directly. An optional tool is the motorized joystick.

The ID-MIX is made of premium hardware components you can also find in the "Half Million Class." Precision engineered and hand-built in Germany, ID has been designed with absolute attention to detail, to give you not only full control but also absolute transparency in your project. The perfectly structured layout concept makes your project not only clearly visible, but touchable.

Based on our more than 30 years experience (we started 1978 with custom made analogue mixing desks for studio, theatre and live performance), we also create custom made solutions: please feel free to inform us about your needs.

We are sure that, once you have quickly mastered its handling, it will greatly enhance your workflow, helping you to reduce cost and gain flexibility.

We are sure you will have fun using the WK-AUDIO ID-MIX!

Your WK-AUDIO Team

**This hardware is developed
and manufactured by**



This hardware is developed
and manufactured by

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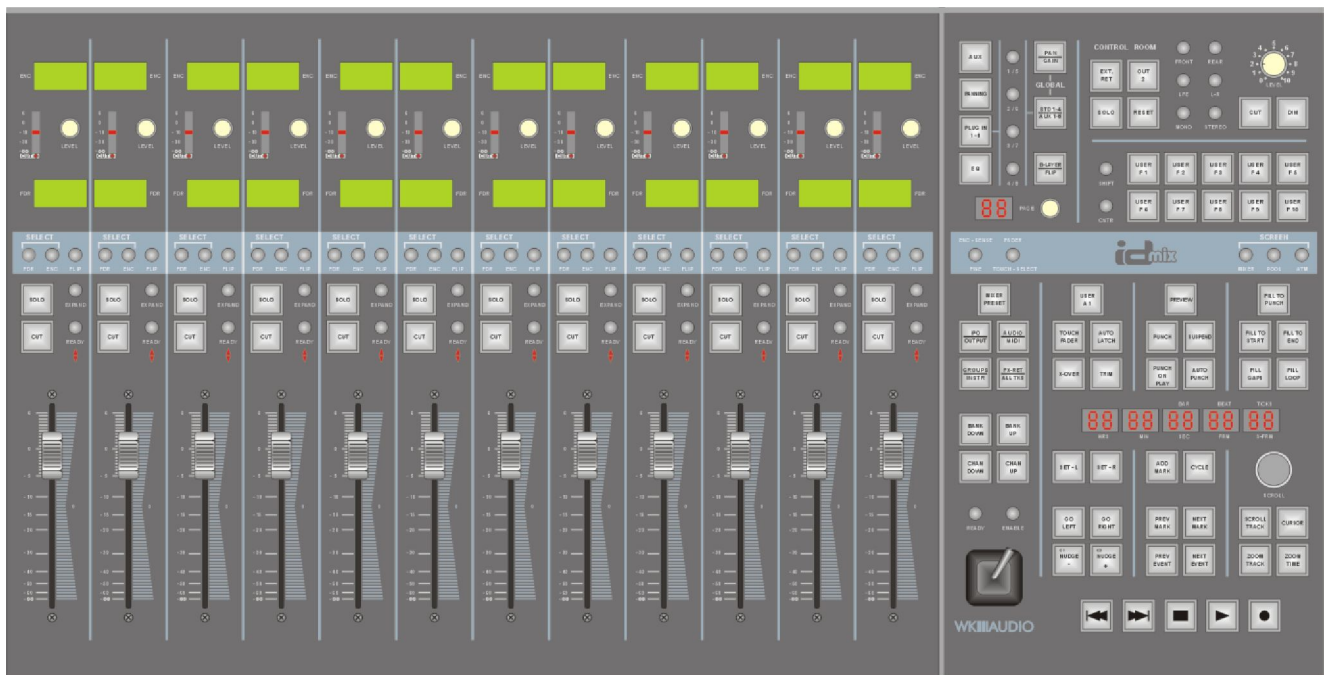
WK-AUDIO ID-MIX Operation Manual

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**Please also read the NUENDO 4 manual. It's important to
understand the complete system, and will inform you about a lot
of details and practical tips.
We are sure you will love your ID-MIX!**



Packing List

WK-AUDIO ID-MIX base unit:

- USB standard cable, 1,8m or longer
- Installer CD-ROM, contents:
- Driver installation software
- WK-AUDIO ID-MIX Operation manual

WK-AUDIO ID-MIX extension fader pack:

- USB standard cable, 1,8m or longer

Minimum System Requirements

The minimum system requirements state the minimal specification your computer must have to be able to use the software. A more powerful system may be required for certain tasks or larger projects.

To be able to use your WK-AUDIO ID-MIX with a PC computer, you will need the following:

- Windows Vista, Windows XP Home and Professional with SP 2
- Intel / AMD Prozessor 2 GHz minimum
- 1 GB RAM
- DVD drive required for installation
- Windows DirectX compatible audio hardware; ASIO compatible audio hardware recommended for low latency performance
- 1 USB port required for Steinberg Key (copy protection device)
- Internet connection required for license activation
- 1-4 USB ports for the controller (depends on additional fader packs)
- NUENDO 4.xx
- WK-AUDIO ID driver software.

To be able to use your WK-AUDIO ID-MIX with a MAC computer, you will need the following:

- Mac OS X v10.4
- Power Mac G4 1 GHz or Core Solo 1.5 GHz
- 1 GB RAM
- DVD drive required for installation
- Core Audio compatible audio hardware is required
- 1 USB port required for Steinberg Key (copy protection device)
- Internet connection required for license activation
- 1-4 USB ports for the controller (depends on additional fader packs)
- NUENDO 4.xx
- WK-AUDIO ID driver software.

Safety Warning

Note: Mains electricity is dangerous and can kill! Within the WK-AUDIO ID-MIX, mains voltage is present. Do not remove any ID-MIX cover with mains connected! Check your mains wiring and earthing before you switch on the ID-MIX! The ID-MIX chassis is always connected to mains earth to ensure your safety. Do not remove the mains earth connection!

Safety Precautions

- Make sure that the 230/115V switch on the ID rear panel is set correctly before you attach the power cable to an AC outlet!
- Be sure that the ID-MIX mains connection cable is only routed in a way that nobody can walk on or trip over it, thereby accidentally cutting mains supply.
- If you use a mains extension cable, make sure that the overall power consumption of all connected devices does not exceed its maximum capacity.
- Before cleaning the ID-MIX, disconnect the mains connection. Do not use chemicals, solvents and abrasives for cleaning. Use a lint-free cloth and a soft brush.
- Prevent damage by avoiding exposure to fluids, dirt, dust heat and smoke.
- Prevent external objects from falling onto, and liquids from spilling into the appliance. Objects could fall on parts that carry voltage (live parts) or cause a short circuit, which could lead to fire or electric shock. Liquids could lead to electric shock and damage the appliance.
- Do not open the appliance as this will expose parts that carry voltage. Do not attempt to service the appliance beyond what's described in the operation manual. All other servicing should be referred to qualified service personnel.
- The appliance should never be used near water or in very humid locations.
- The appliance should only be used with a stand that is recommended by the supplier.
- The appliance should not be exposed to room temperatures of less than 5°Celsius (41° Fahrenheit) or more than 40° Celsius (104° Fahrenheit). Avoid large variations in temperature and humidity to prevent condensation which may short circuit the appliance. All electromechanical parts must be used in a proper fashion to ensure long-term trouble-free operation.

Getting Started

This chapter contains a description of the ID driver software installation process as well as a description of the necessary settings that you must make in NUENDO.

Connecting the ID-MIX

Connecting the ID-MIX is a simple and straightforward process. Do this:

1. Use a mains cable to connect the ID-MIX to a suitable and working mains socket.
2. Switch off your computer.
3. Using the included standard USB cable, connect the USB bus on the ID-MIX to a USB bus on your computer.
4. Next, you must install the driver software.

The ID Driver Software

The ID driver software that you have received with ID-MIX must be installed on the computer that you use to run NUENDO.

It is the link that interconnects the NUENDO software and the ID-MIX hardware.

The driver software is compatible with Windows Xp® (Home and Professional with SP 2), Windows Vista® as well as with Mac OS X v10.4

We recommend that you always use the latest ID software driver version. This is available on the WK-AUDIO web sites. (www.wk-audio.de)

ID Driver Installation

To install the driver software on a PC running Windows, proceed as follows:

1. Make sure the ID-MIX is properly connected to the USB bus on your computer.
2. Switch on the ID-MIX, then switch on your computer and let it boot up.
The automatic hardware recognition of your computer's operating system will detect the ID as a new USB device and ask you for the driver software.
3. Insert the Driver CD into your CD-ROM drive and follow the instructions displayed on your computer screen.
The necessary driver software - a Firmware Loader and the actual driver - will now be installed during two separate installation processes.
4. Restart your computer after installation.

To install the driver software on a MAC running OS X, proceed as follows:

1. Make sure the ID-MIX is properly connected to the USB bus on your computer.
2. Switch on the ID-MIX, then switch on your computer and let it boot up.
3. Insert the Driver CD into your CD-ROM drive and locate the driver installer.
4. Double-Click the installer file to start the installation process. Follow the instructions displayed on your computer screen.

When the installation is finished, you can start using your ID-MIX to control NUENDO.

NUENDO Settings

To allow NUENDO to recognize the ID-MIX and establish communication with it, you must make the following settings in NUENDO:

1. Open the Devices menu and select "Device Setup...". The Device Setup dialog appears.
2. Click the Add Device button (the + button above the Devices list) and select the WK-AUDIO ID from the pop-up menu.
The ID is added to the Devices list on the left side of the dialog.
3. The right side of the dialog now displays settings for the WK-AUDIO ID. Select the MIDI inputs and outputs you want to use from the pop-up menus.
4. If you wish, and if you know what you are doing at this point, you can now assign any NUENDO function to any of the available ID User Function buttons. If you are not sure yet, leave that for now, read on and find the information you need.

Note:

To keep things simple, you may first want to use the NUENDO project template file and the NUENDO Preferences file that come on the ID Driver CD-ROM. You can later always create and save your own changed settings.

ID-MIX Control Types

This section contains basic information about the various types of control available on the ID-MIX.

Motor Faders

Each fader module holds 12 touch-sensitive 100 mm motor faders.

Moving a fader handle upwards increases the audio level of the respective channel, moving it downwards decreases it.

Encoders with Key function

In its Fader section, ID-MIX provides 12 rotary dials called Encoders.

Encoders can be used in several ways: to increase a level or parameter value, turn the Encoder clockwise, to decrease, turn anti-clockwise.

To switch to a parameter or overcome a safety precaution, press the Encoder as if it were a button.



Square Function Buttons

In the Fader Module all square Function buttons will light up when you activate a function by pressing its button.

In the Master Module most of the square Function buttons will light up when you activate a function by pressing its button: it depends on the function. The square Function buttons on the ID-MIX come in two flavours:

Fixed Function buttons

Each of these buttons is used to activate/deactivate one predefined function.

Fixed Function buttons are equipped with three modes:

1. If you press the button very briefly, the corresponding function (e.g. Solo) will be activated. Press it again briefly to deactivate the function.
2. Pressing a Fixed Function button for longer than 250 milliseconds will activate the corresponding function only for as long as you press the button. When you let go of the button, the function will be disabled at once. We call this Push Hold Detection. This is handy in many different mixing situations when trying what it would be like to mute a channel or to activate Solo at a certain point.

3. By an intelligent double configuration of some Fixed Function buttons WK-AUDIO was able to activate more new command into the ID-MIX.



With one click you are able to activate the top function (the LED is shining), with a double click you are able to activate the bottom function (the LED is flashing).

User Function buttons

Single and groups of User Function buttons have been positioned in various places on the ID-MIX user interface. You can freely assign any Nuendo function to any of these buttons.

Note:

Once you have assigned NUENDO functions to these buttons, you can create your own name tags for them. Simply print them on transparent overhead foil using a laser printer.

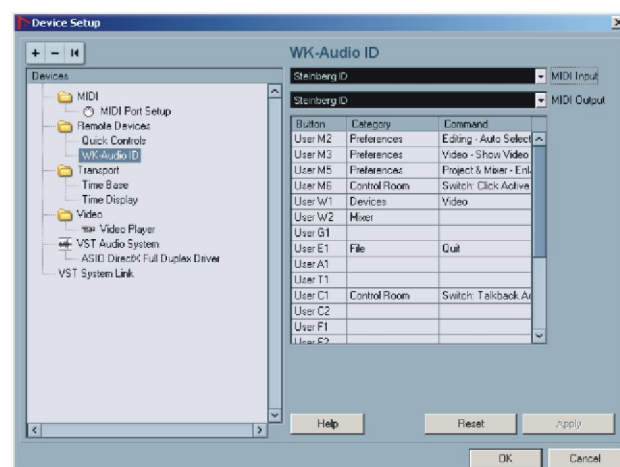
User Function buttons do not provide Push Hold Detection or

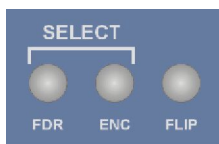
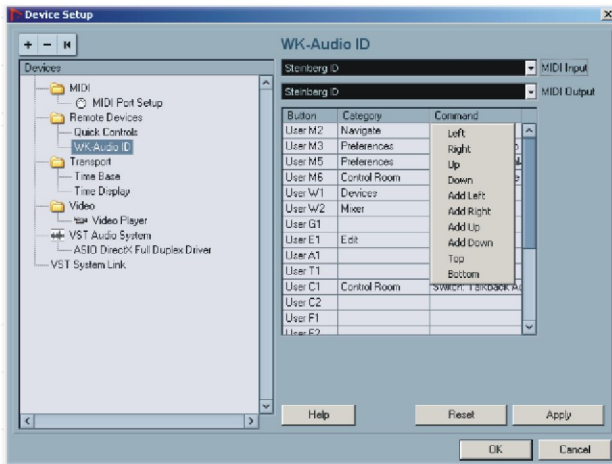
Bounce Repeat, as this may lead to confusing results.

Assigning User Functions

Proceed as follows to assign the desired functions to the ID-MIX User Function buttons:

1. Select "Device Setup..." on NUENDO's Devices menu.
2. In the Device Setup dialog, select the ID. If it's not available, click the Add Device button and select the ID from the pop-up menu.
3. Click in the Category and Command columns for the desired User Function button and select the functions you wish to Assign from the pop-up menus.





Round Function buttons

These can be found all over The ID user interface. Pressing one of these buttons lets you either

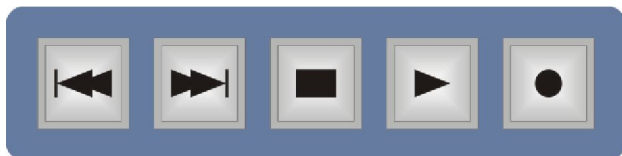
activate/deactivate a Function or toggle between two switch states.

Round function buttons are equipped with Push Hold Detection.

Potentiometers

The potentiometers is located in the Monitoring section. It is rotary dial that have a start and an end point and is used to set the volume level. To increase a level, turn the potentiometer clockwise, to decrease it, turn anticlockwise.

Transport Controls

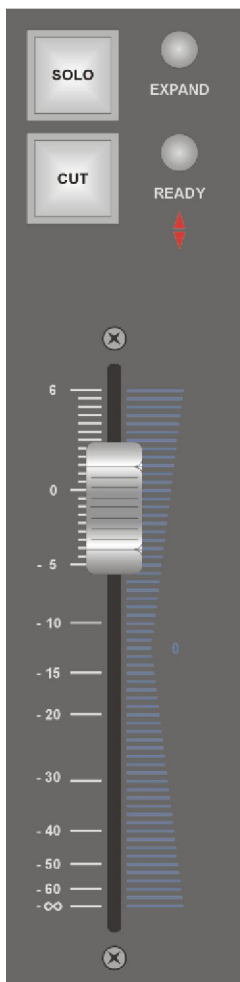
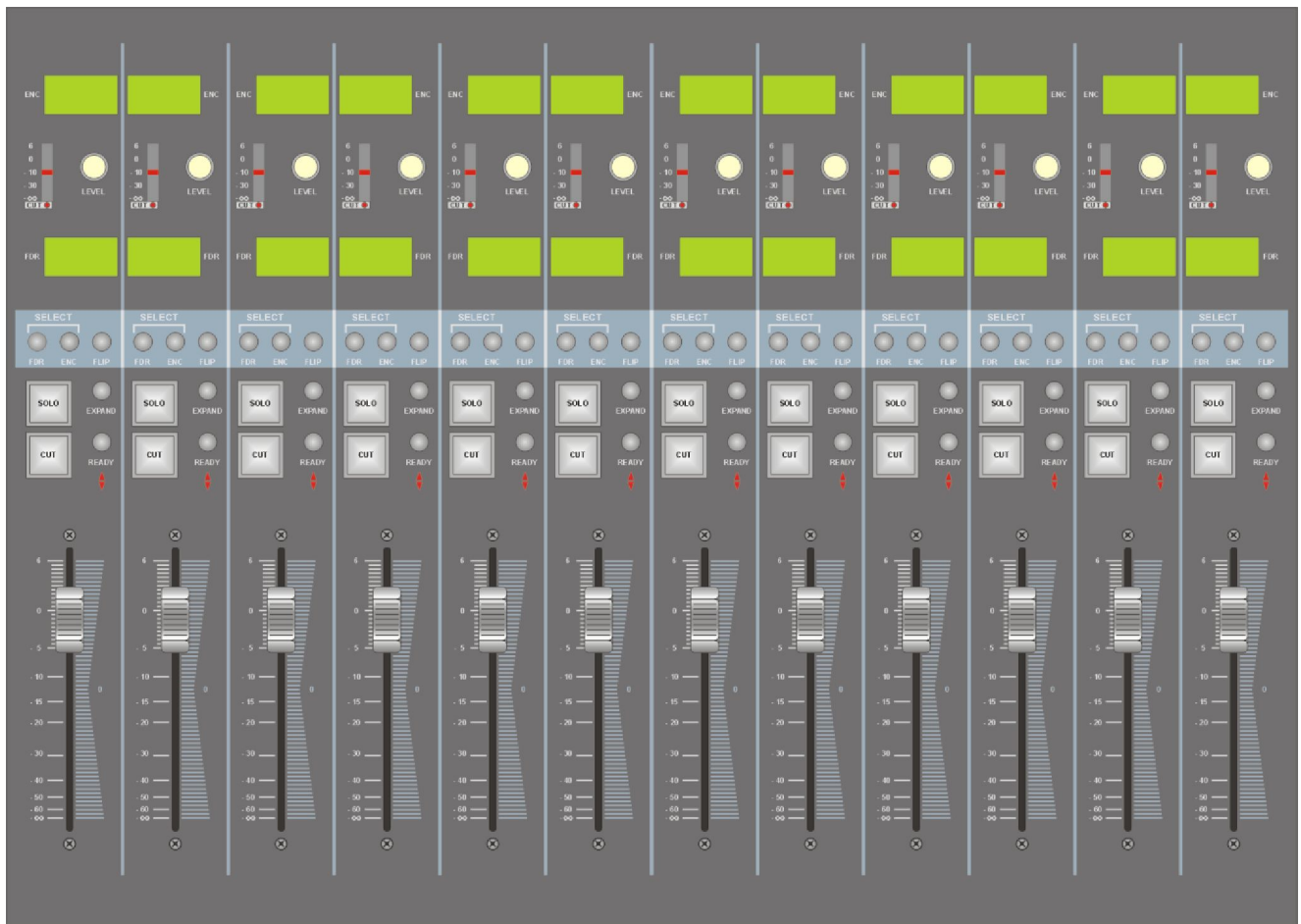


These buttons let you remote control the NUENDO transport controls. The transport controls do not provide Push Hold Detection.



Jog Wheel

This Jog wheel with additional function keys is used to move the cursor, scroll tracks or zoom Functions.



Fader Section

Each Fader Module has twelve 100 mm touch-sensitive motor faders, each with a number of function buttons, a Fader Deviation Indicator LED and a backlit LCD display. The faders always reflect the current settings.

The Expand function

The Expand function is a very useful tool during the mixing process. Pressing the GROUPS button, you have layered all Group Tracks across the faders; now you want to know which channels are routed to a specific group. If you press the EXPAND button, all incoming connections to tracks are analyzed and immediately lined up on

adjacent faders so that you can edit them directly. Expand thus arranges all sending channels next to an Effect return channel or all feeding channels next to a Group channel. Note: Expand is not available for the Track classes MIDI, VST Instruments and Input.

SOLO

Pressing this button will mute all tracks that are not soloed. This is a Solo-in-Place function.

CUT

If you press CUT, the corresponding track will be muted.

EXPAND

If you press EXPAND on a Fader strip, all incoming connections to the corresponding channel are analyzed automatically and lined up on the faders for editing.

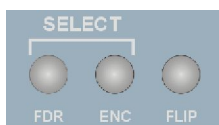
READY

This lets you activate or deactivate record-ready status for the respective track.

Fader Deviation Indicators

These two LEDs indicate whether the Fader has been moved from its original position as

well as the direction into which it has been moved. If you let go of the fader handle, the new fader position becomes the new starting point. With an automation mode active, this will only work as expected, if an automation break-point is available in the following timecode. It may therefore happen that one of the two LEDs is still lit, although you have let go of the fader after writing automation data with it. You can change this by simply touching the fader again.



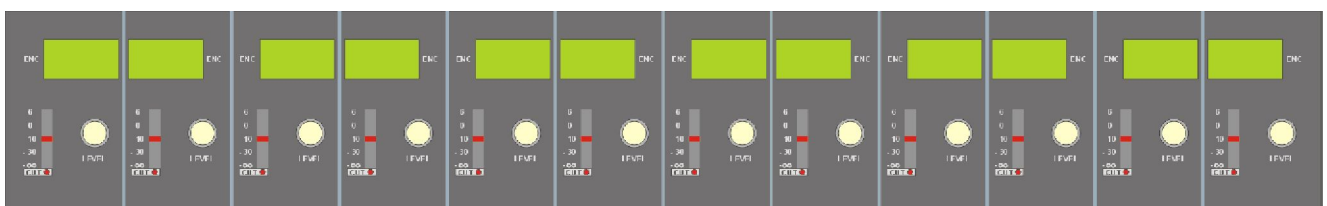
Select & Flip buttons

The FDR and ENC buttons let you select the channels (Tracks) assigned to the Fader or Encoder layer.

Using the FLIP button, you can individually swap a channel (track) between fader and Level Encoder. You can also flip the complete fader bank via FLIP, or reset it, pressing the FLIP button once more.

Double line LCD displays

Above the Select buttons, there is one double line LCD display for each fader and Level Encoder. In the default mode, one line reflects the channel's (track's) status (module number, module class and destination), the other line reflects the name in NUENDO - just to warrant the best possible overview! If you are working in the Local or Global mode, there is only one display which reflects the names of both layers.



The Level Encoders

In the default mode, each Fader Module has 12 Level Encoders (like the small fader in Inline mixing desks), with CUT function that you can activate by pressing the Encoder, a CUT status LED, a 10-segment indicator that reflects the Encoder Level setting and a backlit LCD display which informs you about the channel

(track) status and name.

Everything that was said about the Select and Flip buttons on the previous page applies here, too.

If you are working in the Local or Global mode, these 12 Encoders are used for editing Aux and Studio, EQ, Plug-In, Gain and Pan parameters.

The Master Section



The horizontal blue Strip provides you with a lot of functions to enhance the complete system

ENC SENSE FINE

Let's you step through the available value range in smaller steps. You must turn the dial several times to reach the other end of the range.

TOUCH SELECT

When you activate the TOUCH SELECT function, and touch/-move a Fader, the corresponding channel is automatically selected

MIXER

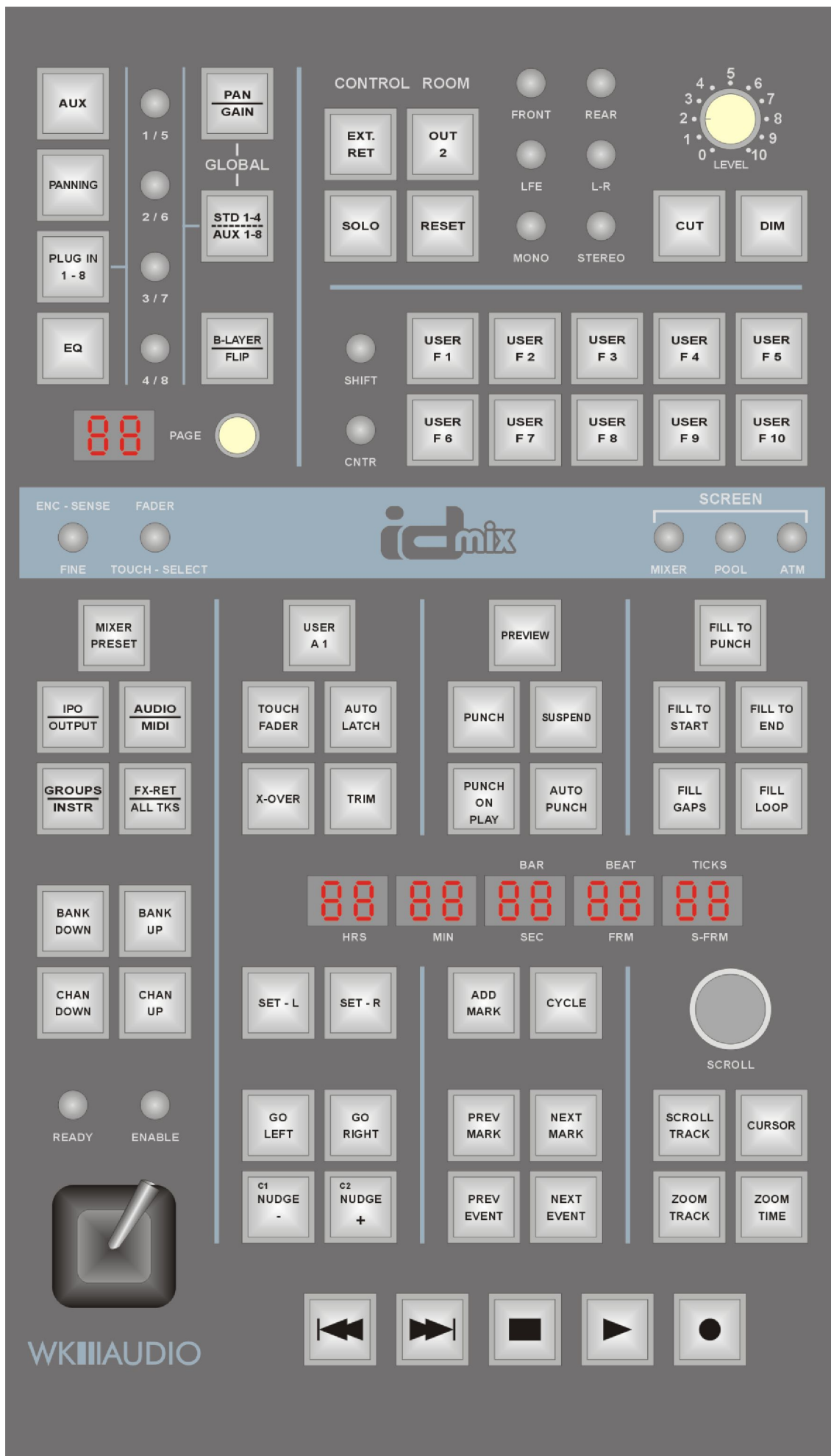
Let's you open or close NUENDO's Mixer window. If NUENDO is not running, you can press this button to boot it.

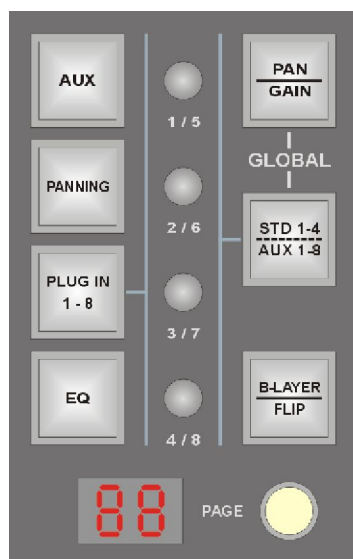
POOL

Opens the NUENDO Pool window

ATM (USER W1)

USER W1 is one of some user-definable Function buttons. Please also read "Assigning User Functions". Use W1 to connect the Automation window.





The Channel Strip Mode

You can also use the 12 Encoders of the Fader Module to edit Aux /Studio Send level and parameters, Gain, Pan, Plug-Ins and the EQ for the selected channel.

Single Channel View / Local Mode

Press FDR or ENC SELECT, or use TOUCH - SELECT for the faders. To edit any channel parameter, please press one of the following keys:

AUX
PANNING
PLUG-IN 1-8
EQ.

If you can edit more than 12 parameters, please also use PAGE for more details.

AUX (STUDIO)

Page 1

Aux Send level 1-8;
 Main Pan; Main-FR;
 Gain; Phase

Page 2

Studio Send level
 1-3; Main Pan; Main-
 FR; Gain; Phase

Description

Aux Send level 1-8.
 Press the Edit
 Encoders to set the
 corresponding Aux
 Send to On or Off.

Studio Send level 1-3.
 Press the Edit
 Encoders to set the
 corresponding Studio
 Send to On or Off.

PANNING

Page 1

X-Pos.; Y-Pos.; LFE-
 Gain; Center; Front-
 Divergence; Rear-
 Divergence; F/R-
 Divergence.

Description

For movements you
 should also use the
 Motor-Joystick
 (Option)

PLUG-IN 1-8

Page 1 - 99

You can edit up to
 1188 parameters!

Description

Select 1-4 to press the
 buttons 1/5 -4/8 once,
 select 1-8 to press the
 buttons 1/5 -4/8 twice.

EQ

Page 1

You have all EQ
 parameters on your
 hands.

Description

Gain 1; Freq.2; Q 1;
 Gain 2; Freq.2; Q 2;
 Gain 3; Freq.3; Q 3;
 Gain 4; Freq.4; Q 4;

Multi Channel View / Global Mode

You want to edit Gain for all channels at the same time? The Global Mode is the right solution here. Using the EDIT dials, you can change the respective parameter setting for each channel. The display above each dial gives you optical feedback.

Please press one of the following keys:

PAN
GAIN
STD 1-4
AUX 1-8

If you can edit more than 12 parameters, please also use PAGE for more details.

PAN

Page 1

Pan
 (Press once)

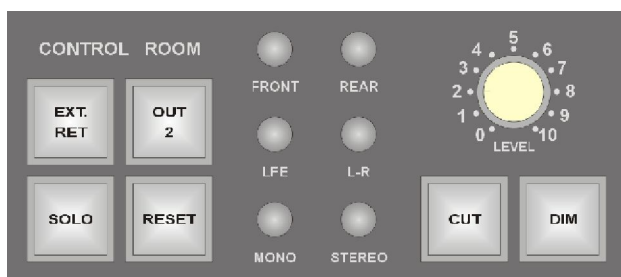
Description

Pan functionality for
 12 channels at the
 same time

GAIN	
Page 1	Description
Gain (Press twice)	Gain functionality for 12 channels at the same time

STD 1-4	Description
	Select 1-4 to press the buttons 1/5 -4/8 once.
Page 1	Level; press the Encoder to switch on.
Page 2	On
Page 3	Pre
Page 4	Pan
Page 5	Bypass

AUX 1-8	Description
	Select 1-4 to press the buttons 1/5 -4/8 once, select 5-8 to press the buttons 1/5 -4/8 twice.
Page 1	Level; press the Encoder to switch on.
Page 2	On
Page 3	Pre
Page 4	Pan
Page 5	Patch
Page 6	Bypass



The Control Room Section

The integration of the Control Room section is also exemplary, with an input and output matrix as well as reduction keys for Mono/Stereo, Front/Rear, LFE and L-R, meaning that the corresponding features in the NUENDO master section are addressed directly. This section is as comprehensive in its features as in a large analogue console and offers that comfort and effectiveness you need for your studio work.

SOLO	This button is used to enable/disable the Solo in place (S.I.P.) Function. Listen is the default mode.
RESET	Press this to reset all Solo settings in the Nuendo Mixer except for the Solo Save settings
EXT RET	The EXT RET button is used to select an external return channel in NUENDO (DVD player,...).
OUT 2	The OUT 2 button selects the alternative speaker system.
FRONT	Pressing the FRONT button will solo all Front speaker channels.
REAR	Pressing the REAR button will solo all REAR speaker channels.
LFE	Pressing the LFE button will solo the LFE speaker channel.
L-R	Pressing the L-R button will solo the L-R speaker channels.
MONO	Pressing the MONO button will solo the MONO channel.
STEREO	Pressing the STEREO button will solo the STEREO channels.
CUT	Use the CUT button to mute the Control Room channel.
DIM	Use the DIM button to enable the Control Room Dim function (reduces the set level by a value set in the NUENDO Preferences)
LEVEL	It's to controll the level of your speaker systems.

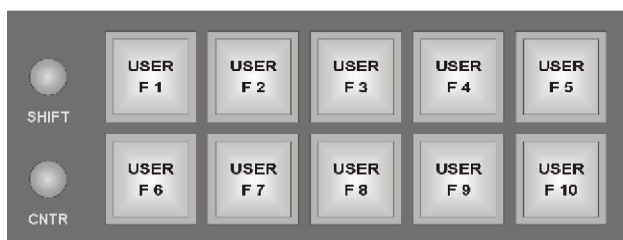
Notice:

The MONO and STEREO buttons can be used to select the first two presets associated with the NUENDO monitor channels. Pressing the MONO/-STEREO button once will select the first preset with a mono/stereo configuration. When deselecting this button, the first preset in the Preset list will be selected. When there is no preset corresponding to one of the buttons, the respective button will be disabled.

Notice::

All ID LEVEL dials in the Monitoring section control the corresponding level controls in NUENDO. However, you first need to set the ID dials to the value currently set in NUENDO to enable level control!

We urgently recommend that you set the power amps that drive your studio monitors to a level so that the maximum NUENDO level cannot damage the speakers!



ASCII Key Commands

The keys USER-F1 to USER-F10 are ASCII function keys and always work as ASCII keyboard keys.. In combination with SHIFT and CNTRL up to 40 function keys are available.

Note:

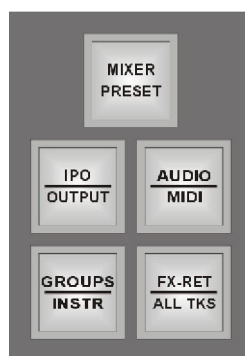
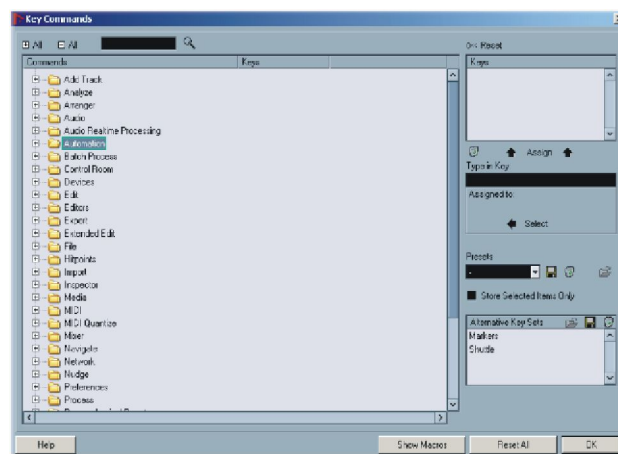
You can freely assign any NUENDO function to the ASCII function keys F1 - F10.

Assigning ASCII function keys F1 - F10

Proceed as follows to assign the desired functions to the ASCII function keys F1 - F10:

1. Select "Device Setup..." on NUENDO's Devices menu.
2. In the Device Setup dialog, select the ID. If it's not available, click the Add Device button and select the ID from the Pop-up Menu.

3. Click in the Category and Command columns for the desired User Function button and select the functions you wish to Assign from the Pop-up Menu.



Module Classes

The sortation of all channels into 8 module classes is very helpful for your overview and forces the workflow.

IPO

Press this button to see and control the Input busses.

OUTPUT

Press this button to see and control the Output busses.

GROUPS

Use this button to assign the Audio Groups to the ID faders and Level Encoders.

INSTR

Press this button to see and control the output busses of your currently used VST Instruments.

AUDIO

Pressing this button lets you see and control the Audio playback channels.

MIDI

Activating this lets you see and control the MIDI track volumes.

FX-RET.

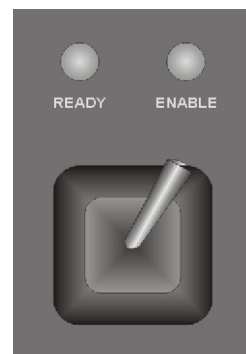
Press this button to see and control the FX Return.

ALL TKS	If this is activated, all Tracks/-channels and channel classes are arranged and assigned to the ID faders/Level Encoders in exactly the same way as in the Nuendo Mixer windows.
MIXER PRESET	When this button is selected, the 4 buttons under this one can be used to select the first 8 Mixer view sets in NUENDO.



Bank Up/Down Module Up/Down

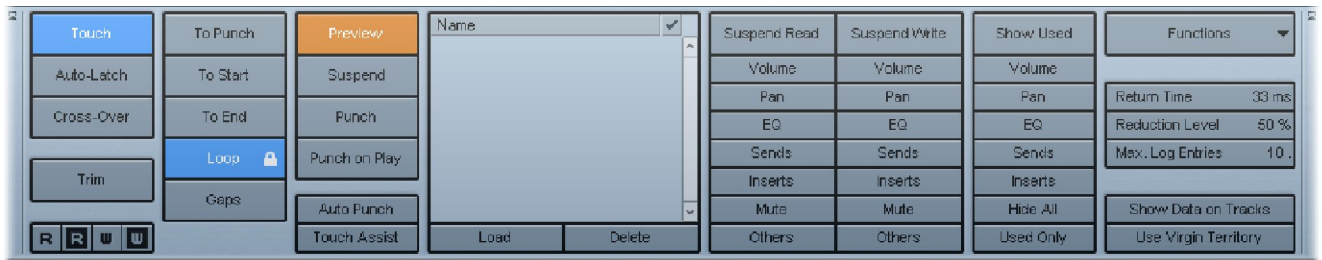
BANK DOWN	Press this button to assign the previous bank of twelve Tracks/-Channels to the level controls. Example: Tracks 13-24 are assigned to the twelve Faders. Then you press this button. Now Tracks 1-12 will be assigned to the Faders.
BANK UP	Press this button to assign the next bank of twelve Tracks/-Channels to the level controls.
CHAN DOWN	Press CHAN DOWN to assign the previous Track/Channel to a level control.
CHAN UP	Press CHAN UP to assign the next Track/Channel to a level control.
	<p>Note:</p> <p>Pressing SHIFT and CNTR as well as the BANK UP button, used fader are right aligned.</p> <p>Pressing SHIFT and CNTR as well as the BANK DOWN button, used fader left aligned.</p>



Motor-Joystick (Option)

To realize and update any surround movements, a motor joystick is a "Must-have"!

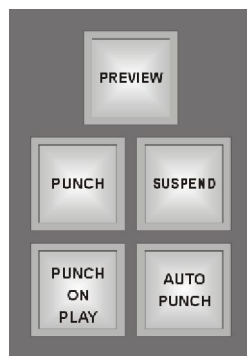
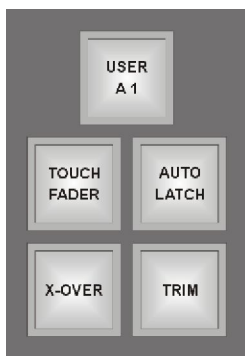
READY	Make's the optional motor joystick ready for Automation.
ENABLE	The ENABLE button is used to enable the optional motor joystick functionality. This button will also engage the motor of the joystick for parameter feedback.



The Automation System

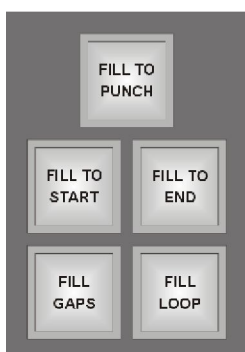
With NUENDO 4, Steinberg has created a premium automation system which guaranties a fast and professional handling of your projects.

WK-AUDIO was able to support the most important functions entirely by adaptation of the driver and the system internal Micro Controller in order to ensure a comfortable workflow. Please also read the NUENDO 4 manual (chapter 16: Automation) where you will also find a lot of practical tips.



Automation Preview

Preview provides an easy way to find new settings without recording the steps needed to locate them. Preview allows you to deal with abrupt changes in your audio material, e.g. in music when changing from verse to chorus, or in film when moving into the next scene. With Preview, you can do a test run of your automation pass. Preview is the mode to use in complex situations where many things happen in a very short period of time, and where it is not possible to set all required parameters in real-time. Preview allows you to set up automation for several parameters simultaneously.



The Fill options

The Fill options define conditions for what is to happen in a specific section of your project when you punch-out of a running automation pass. They can be used in real-time while rolling through Your project, in situations

Automation Modes

There are different possibilities to write and update your automation data.

USER A 1

It's to activate an user key command.

TOUCH FADER

Typically, you would use Touch mode in situations where you want to make a change lasting only a few seconds to an already set up parameter. Touch will write automation data only for as long as you actually touch a parameter control: punch-out occurs as soon as you release the control.

AUTO LATCH

Auto-Latch is probably the automation mode you will use the most, in all situations where you want to keep a value over a longer period of time for example when making EQ settings for a particular scene.

X-OVER

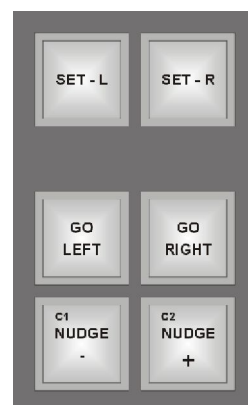
Cross-Over mode gives allows you to perform a "manual return" to ensure smooth transitions between new and existing automation settings. For Cross-Over, the punch-out condition is crossing over an already existing automation curve after touching the parameter for a second time.

TRIM

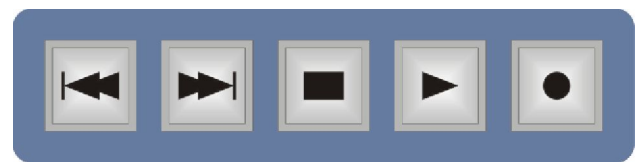
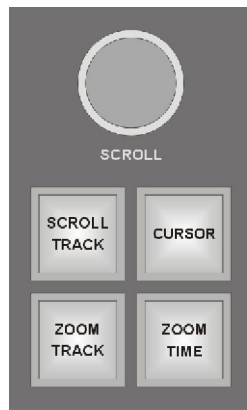
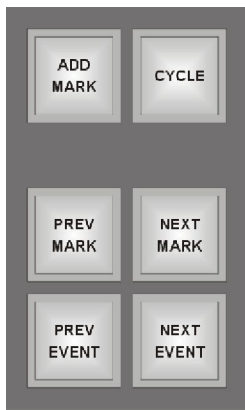
Trim is a way of manipulating an already written automation curve, other, rather than an automation mode. Trim works for channel volume and aux send level.

PREVIEW	It activates the Preview mode.
PUNCH	It's to punch-in the automation pass.
SUSPEND	Use the Suspend option to compare any previously automated value with the value found during preview. Suspend will play back your audio material using the parameter values set before activating Preview. Suspend allows you to listen to the existing automation settings.
PUNCH ON PLAY	Press this button if you want to punch-in starting playback.
AUTO PUNCH	Use Auto Punch when you want the automation pass to begin and end at defined positions.
FILL TO PUNCH	The volume curve is set from the point of punch-out back to where you punched in. The values written while moving the fader to find the right value are deleted, and volume jumps, at exactly the right moment.
FILL GAPS	The Gaps option is used only in combination with Virgin Territory. When Gaps is selected, punching out of automation will fill any gaps between previously written automation with the last value found during the last automation pass.
FILL TO START	The volume curve is set from the point of punch-out back to the start of the project. The values written while moving the fader to find the right value are deleted.
FILL TO END	The volume curve is set from the point of punch-out up to the end of the project. The values written while moving the fader to find the right value are deleted.
FILL LOOP	To use this option, you must first set up a loop range with the left and right locators. When you then press this button, punching out of automation will set the found value within the range defined by the left and right locator.

The Transport Section



GO LEFT	Press this to move the Project Cursor to the position of the left Locator.
GO RIGHT	Press this to move the Project Cursor to the position of the right Locator.
SET LEFT	If you activate this Function button, you can set the left Locator position to the current Project Cursor position.
SET RIGHT	You can set the right Locator position to the current Project Cursor position.
SET L-R	If you press this Function button, the Locators are set to the start and end position of the Event.
NUTGE -	= USER C1. It makes sense to select a command from the category "Nudge" (xx down).
NUTGE +	= USER C2. It makes sense to select a command from the category "Nudge" (xx up).



The Transport Control

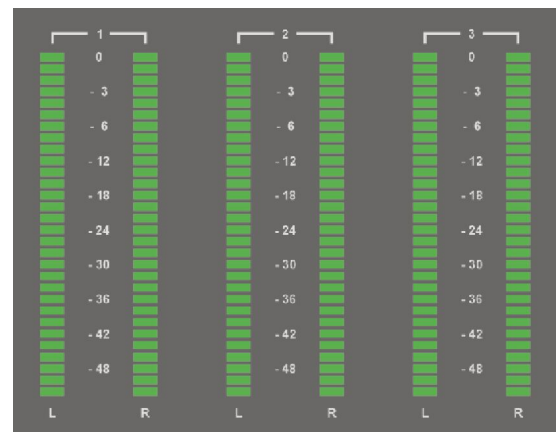
The ID Transport controls are the twins of NUENDO's transport controls: Rewind (to project start), Fast Forward (to project end), Stop, Start and Record. To record-enable a track, use the Ready buttons in the Fader section.

ADD MARK	Press this to add a new Marker at the current Project Cursor position.
CYCLE	Use this to activate or deactivate the Cycle function. For this to work as expected, the Locators should be set to useful positions.
PREV MARK	Press this button to let the Project Cursor jump to the previous Marker.
NEXT MARK	Press this to let the Project Cursor jump to the next Marker.
PREV EVENT	Press this to select the previous Event on the selected Track.
NEXT EVENT	Pressing this lets you select the next Event on the selected Event.



Timecode Display

This display shows the current Nuendo Project Cursor position in hours/minutes/seconds/frames/sub-frames or ticks/samples, depending on what you currently do in Nuendo.



SCROLL	The Jog Wheel with additional function keys is used to move the cursor, to scroll tracks, to zoom tracks or to zoom time.
SCROLL TRACKS	Use this function to scroll a selected Track. Pressing SHIFT at the same time, you can select groups of Tracks.
CURSOR	This is the default setting, the Jog Wheel controls the NUENDO position cursor.
ZOOM TRACK	With this function you can zoom Tracks to see more details.
ZOOM TIME	With this function you can turn the Jog Wheel clockwise to horizontally magnify Tracks/-Events. Turn the wheel anticlockwise to zoom out again.

LED Meter Bridge

2x30 band LED metering for each channel as well as 8x30 band LED metering for the master section let you control the input and master levels.

Technical Specifications

Specifications

12 Motor Faders, 12bit resolution, touch-sensitive
1 potentiometer in the Control Room section.
14 Encoders with key function, 64 positions with fine tuning option
171 Keys, backlit, framed, 10.000.000 key cycles
24 LCD Displays, 48 lines of 7 characters
12x 7-segment LED displays
Jog Wheel
6 Processor boards
Steel housing (no interspersions)
Padded arm rests
Non-reflecting surface
Can be extended with up to 4 fader packs
Optional: motor joystick
Hardware: Made in Germany
Power supply: integrated 120 Watts with 60% overhead.

Connections

1 USB 1.1, 1 power chord

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