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<b>User Manual</b>	Michael Haydn
<b>Special thanks to</b>	Mackie Design

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# 1 Introduction

## What it does

The HUI control surface plug-in supports Mackie HUI and all hardware which fully or partially emulates it, e.g. Mackie Baby HUI, Yamaha DM2000, DM1000, 02R96 and 01V96.

## 2 Setup

### Requirements

To use the HUI control surface plug-in, you need

- a HUI or compatible product
- Logic Platinum 6.0 or newer

### Set up: common steps

- Make sure that an XSKKey with a Logic Platinum 6 authorization.
- Make sure that your HUI unit(s) are connected bidirectionally with the computer, either using a MIDI interface or the USB connector built-in to the unit (DM2000, 02R96).
- If the unit(s) are connected via USB, make sure that the MIDI driver which comes with the unit is installed. On Mac OS 9, you will have to enable OMS in Logic and make sure that your OMS Studio includes the ports you have connected your unit(s) to. If not, choose **Studio > Add Devices per Port...** in OMS Setup.
- Choose menu item **Options > Control Surfaces > Install...**

### Set up: HUI

- For every HUI unit, select **HUI** in the Install window, choose **Add**, then set the appropriate MIDI In and Out ports in the Setup window.

### Set up: Baby HUI

- For every Baby HUI unit, select **HUI** in the Install window, choose **Add**, then set the appropriate MIDI In and Out ports in the Setup window.



## Set up: DM2000

### At DM2000 front panel

Basically you set up the DM2000 as if you are using it with Pro Tools. See the DM2000 user manual, section 19. Here are the necessary steps:

- Press **DISPLAY ACCESS [SETUP]**, then **[F4]** (below the LCD). Now move the cursor to the port parameters right to **DAW**, select **USB** and right to it **1-3**.
- Press **DISPLAY ACCESS [REMOTE]**, then **[F1]** (below the LCD). For the **TARGET** parameter, choose **ProTools**.
- Press **LAYER [REMOTE 1]**

### In Logic

- Select **DM2000 Port 1** in the Install window, choose **Add**, then choose “Port 1” of the DM2000’s USB MIDI driver for the MIDI In and Out ports in the Setup window.
- Select **DM2000 Port 2/3** in the Install window, choose **Add**, then choose **Port 2** of the DM2000’s USB MIDI driver for the MIDI In and Out ports in the Setup window.
- Select **DM2000 Port 2/3** in the Install window, choose **Add**, then choose **Port 3** of the DM2000’s USB MIDI driver for the MIDI In and Out ports in the Setup window.

You should now see three DM2000 icons in the setup window, aligned horizontally.

## Set up: DM1000

### At DM1000 front panel

While this document was created, we didn’t have access to DM1000 user documentation, but setting it up for Logic should be similar to the DM2000 setup – see above.

## In Logic

- Select **DM1000 Port 1** in the Install window, choose **Add**, then choose “Port 1” of the DM1000’s USB MIDI driver for the MIDI In and Out ports in the Setup window.
- Select **DM1000 Port 2** in the Install window, choose **Add**, then choose **Port 2** of the DM1000’s USB MIDI driver for the MIDI In and Out ports in the Setup window.

You should now see two DM1000 icons in the setup window, aligned horizontally.

## Set up: 02R96

### At 02R96 front panel

Basically you set up the 02R96 as if you are using it with Pro Tools. See the 02R96 user manual, section 19. Here are the necessary steps:

- Press **DISPLAY ACCESS [SETUP]**, then **[F4]** (below the LCD). Now move the cursor to the port parameters right to **DAW**, select **USB** and right to it **1-3**.
- Press **DISPLAY ACCESS [REMOTE]**. For the **TARGET** parameter, choose **ProTools**.
- Press **LAYER [REMOTE]**

## In Logic

- Select **02R96 Port 1** in the Install window, choose **Add**, then choose **Port 1** of the 02R96’s USB MIDI driver for the MIDI In and Out ports in the Setup window.
- Select **02R96 Port 2/3** in the Install window, choose **Add**, then choose **Port 2** of the 02R96’s USB MIDI driver for the MIDI In and Out ports in the Setup window.
- Select **02R96 Port 2/3** in the Install window, choose **Add**, then choose **Port 3** of the 02R96’s USB MIDI driver for the MIDI In and Out ports in the Setup window.

You should now see three 02R96 icons in the setup window, aligned horizontally.

## Set up: 01V96

### At 01V96 front panel

Basically you set up the 01V96 as if you are using it with Pro Tools. See the 01V96 user manual, section 19. Here are the necessary steps:

- Press **DISPLAY ACCESS [SETUP]**, then **[F4]** (below the LCD). Now move the cursor to the port parameters right to **DAW**, select **USB** and right to it **1-3**.
- Press **DISPLAY ACCESS [REMOTE]**. For the **TARGET** parameter, choose **ProTools**.
- Press **LAYER [REMOTE]**

### In Logic

- Select **01V96 Port 1** in the Install window, choose **Add**, then choose **Port 1** of the 01V96's USB MIDI driver for the MIDI In and Out ports in the Setup window.
- Select **01V96 Port 2** in the Install window, choose **Add**, then choose **Port 2** of the 01V96's USB MIDI driver for the MIDI In and Out ports in the Setup window.

You should now see two 01V96 icons in the setup window, aligned horizontally.

## Set up: other HUI compatible devices

If the unit emulates one HUI unit, proceed as if you have a HUI.

-  If you experience problems in the DSP Edit display, instead install the unit as a DM2000.

If the unit emulates more than one HUI, add an according number of additional devices in the setup, similarly as for the Yamaha digital mixers. If the unit supports only one HUI DSP edit section, choose **HUI Channel Strips only** as the model name for the additional units. This ensures that scrolling in the DSP edit section scrolls by four parameters.

For the the assignment of the buttons, refer to section *Assignment overview – HUI* chapter, from page 15 and the device's user manual.

## 3 Assignment overview – HUI

A right-aligned modifier button below a button description means: while holding down this modifier, the button has this alternate meaning.

### ASSIGN section

Control	Assignment
SEND A	assigns Send 1 Level to V-Pots, and Send 1..4 Levels to DSP V-Pots. While held down, the scribble strips show the current Send 1 destination assignment
SHIFT/ADD	as above, but Send 6
SEND B	assigns Send 2 Level to V-Pots, and Send 1..4 Levels to DSP V-Pots. While held down, the scribble strips show the current Send 2 destination assignment
SHIFT/ADD	as above, but Send 7
SEND C	assigns Send 3 Level to V-Pots, and Send 1..4 Levels to DSP V-Pots. While held down, the scribble strips show the current Send 3 destination assignment
SHIFT/ADD	as above, but Send 8
SEND D	assigns Send 4 Level to V-Pots, and Send 1..4 Levels to DSP V-Pots. While held down, the scribble strips show the current Send 4 destination assignment
SEND E	assigns Send 5 Level to V-Pots, and Send 5..8 Levels to DSP V-Pots. While held down, the scribble strips show the current Send 5 destination assignment
PAN	assigns Pan to V-Pots; assigns selected track's pan/surround parameters to DSP V-Pots
INPUT	assigns Track Input to V-Pots. While held down, the scribble strips show the current Track Input assignment
OUTPUT	assigns Track Output to V-Pots. While held down, the scribble strips show the current Track Output assignment
REC/RDY ALL	Disable Record Ready on all tracks
BYPASS	toggles the INSERT buttons between Insert Select and Insert Bypass mode

<b>Control</b>	<b>Assignment</b>
MUTE	toggles the V-Select buttons between Send Position and Send Mute mode
SHIFT	toggles Flip mode
SELECT-ASSIGN	displays the V-Pot assignment as follows: Pan, Snd1 .. Snd8, S1As .. S8As, In, Out
SUSPEND	-
DEFAULT	toggles V-Select buttons between normal behavior and setting default value
ASSIGN	When V-Pots display a Send level, switches them to Send Destination assignment mode. Press V-Select or ASSIGN again to confirm the assignment.

## Fader bank buttons

<b>Control</b>	<b>Assignment</b>
Bank Left	shifts channel strips by one bank to the left
Bank Right	shifts channel strips by one bank to the right
Channel Left	shifts channel strips by one channel to the left
Channel Right	shifts channel strips by one channel to the right

## WINDOW section

<b>Control</b>	<b>Assignment</b>
TRANSPORT	toggles the Transport window
EDIT	toggles the Arrange window
MIX	toggles the Track Mixer window
ALT	toggles the Sample Editor window
STATUS	toggles the Audio Pool window
MEM-LOC	toggles the Marker List window

## KEYBOARD SHORTCUTS section

Control	Assignment
UNDO	performs undo
SHIFT/ADD	performs redo
OPTION/ALL	opens undo history window
SAVE	saves the song
OPTION/ALL	Save As...: saves the song with a different name
EDIT MODE	-
EDIT TOOL	selects the next tool. While held down, digit buttons select a specific tool
SHIFT/ADD	Shifts to second meaning of some buttons See also description of other buttons
OPTION/ALL	While held down, value change mode is set to „full“: relative value changes to go minimum or maximum See also description of other buttons
CTRL/CLUTCH	While held down, the Group Clutch is engaged, i.e. all groups are disabled
CMD/ALT/FINE	While held down, value change mode is set to „fine“: relative value changes work with maximum resolution See also description of other buttons

## Channel strips

Control	Assignment
Level Meters	display momentary and peak level
REC/RDY	toggles Record Ready
OPTION/ALL	disables Record Ready for all tracks
INSERT	BYPASS off: selects track for plug-in selection BYPASS on: toggles bypass of currently selected insert slot
V-SEL	Pan selected: sets Pan to center if DEFAULT on Send 1..8 selected: edits Send Pre/Post, toggles Send Mute or sets Send Level to default value Send Assign, Input or Output: confirms selection
V-Pot	adjusts parameter selected in the ASSIGN section

Control	Assignment
AUTO	cycles automation mode. With an automation mode button held down, sets this automation mode
SOLO	toggles Solo
OPTION/ALL	disables Solo for all tracks
MUTE	toggles Mute
OPTION/ALL	unmutes all tracks
Scribble Strip	displays track name, or Send, In or Out assignment
SELECT	selects track
SHIFT/ADD	Sets volume to unity level
DEFAULT	Sets volume to unity level
Fader	adjusts volume, or duplicates V-Pot in Flip mode

## DSP EDIT/ASSIGN section

Control	Assignment
ASSIGN	-
COMPARE	toggles DSP display between modes „ track name / parameter name“ and „ parameter name / parameter value“
BYPASS	toggles bypass of currently edited plug-in insert
DSP Select 1-4	Assignment Pan: <ul style="list-style-type: none"> <li>• DSP Select 1 sets Pan or Surround Angle to center</li> <li>• DSP Select 2 sets Surround Diversity to center</li> <li>• DSP Select 3 sets Surround LFE to center</li> <li>• DSP Select 4 sets Surround Mode to center</li> </ul> Assignment Send: <ul style="list-style-type: none"> <li>• toggle Send 1..4 or 5..8 Mute</li> </ul> Plug-In Assign: <ul style="list-style-type: none"> <li>• confirm insert 1..4 or 5..8 plug-in selection, selects this insert and enters Plug-In Edit mode</li> </ul> Plug-In Edit: <ul style="list-style-type: none"> <li>• sets value to default, or toggles switch</li> </ul>



Control	Assignment
DSP V-Pots	Assignment Pan: <ul style="list-style-type: none"> <li>• DSP V-Pot 1 controls Pan or Surround Angle</li> <li>• DSP V-Pot 2 controls Surround Diversity</li> <li>• DSP V-Pot 3 controls Surround LFE</li> <li>• DSP V-Pot 4 controls Surround Mode</li> </ul> Assignment Send: <ul style="list-style-type: none"> <li>• control Send 1..4 or 5..8 Level</li> </ul> Plug-In Assign: <ul style="list-style-type: none"> <li>• assigns insert 1..4 or 5..8 plug-in</li> </ul> Plug-In Edit: <ul style="list-style-type: none"> <li>• sets value to default</li> </ul>
INSERT/ PARAM	toggles between Plug-in Assign and Plug-in Edit modes
SCROLL	Plug-In Edit: shifts parameter display by the number of DSP V-Pots in the control surface group (usually four)
CMD/ALT/FINE	Plug-In Edit: shifts parameter display by one

## Function keys

Control	Assignment
F1	Clears Overload LEDs
SHIFT/ADD	Switches to Global View and enables MIDI Tracks
CMD/ALT/FINE	Toggles Arrange window
F2	Recalls Screen Set 2
SHIFT/ADD	Switches to Global View and enables Inputs
CMD/ALT/FINE	Toggles Track Mixer window
F3	Recalls Screen Set 3
SHIFT/ADD	Switches to Global View and enables Audio Tracks
CMD/ALT/FINE	Toggles Event Editor window
F4	Recalls Screen Set 4
SHIFT/ADD	Switches to Global View and enables Audio Instruments
CMD/ALT/FINE	Toggles Score Editor window
F5	Recalls Screen Set 5

Control	Assignment
SHIFT/ADD	Switches to Global View and enables Aux Tracks
CMD/ALT/FINE	Toggles Hyper Editor window
F6	Recalls Screen Set 6
SHIFT/ADD	Switches to Global View and enables Busses
CMD/ALT/FINE	Toggles Matrix Editor window
F7	Toggles counter display between SMPTE and bars/beats/format/ticks
SHIFT/ADD	Switches to Global View and enables Outputs and Master object
CMD/ALT/FINE	Toggles Transport window
F8/ESC	Default: leaves folder Goto Marker: cancels dialog
CMD/ALT/FINE	Toggles Audio window

## AUTO ENABLE section

Control	Assignment
FADER	toggles automation playback and recording of Volume
PAN	toggles automation playback and recording of Pan
PLUG IN	toggles automation playback and recording of Plug-in parameters
MUTE	toggles automation playback and recording of Mute
SEND	toggles automation playback and recording of Send Level
SEND MUTE	-

## AUTO MODE section

Control	Assignment
READ	sets selected track to automation mode " Read" . While held down, channel Strip AUTO buttons set automation mode to Read
OPTION/ALL	sets all tracks to automation mode " Read"

Control	Assignment
LATCH	sets selected track to automation mode " Latch" . While held down, channel Strip AUTO buttons set automation mode to " Latch"
OPTION/ALL	sets all tracks to automation mode " Latch"
TRIM	-
TOUCH	sets selected track to automation mode " Touch" . While held down, channel Strip AUTO buttons set automation mode to " Touch"
OPTION/ALL	sets all tracks to automation mode " Touch"
WRITE	sets selected track to automation mode " Write" . While held down, channel Strip AUTO buttons set automation mode to " Write"
OPTION/ALL	sets all tracks to automation mode " Write"
OFF	sets selected track to automation mode " Off" . While held down, channel Strip AUTO buttons set automation mode to " Off"
OPTION/ALL	sets all tracks to automation mode " Off"

## STATUS/GROUP section

Control	Assignment
AUTO	while held down, the Scribble Strips display the tracks' automation mode
MONITOR	-
PHASE	-
GROUP	enters Group Edit mode: <ul style="list-style-type: none"> <li>• the upper line in the DSP edit section displays the currently edited group number and name</li> <li>• DSP Select buttons 1..4 toggle properties of the currently edited group, labelled in the lower line</li> <li>• When INSERT/PARAM is off, DSP Edit Scroll V-Pot scrolls through the group properties. Otherwise it selects the currently edited group</li> <li>• the SELECT buttons toggle group membership of the track</li> </ul>
SHIFT/ADD	switches to Track View

Control	Assignment
CREATE	creates a new group and enters Group Edit mode (see above)
SHIFT/ADD	switches to Global View
SUSPEND	toggles the Group Clutch
SHIFT/ADD	switches to Extended Track View

## EDIT section




Control	Assignment
CAPTURE	-
SEPARATE	-
CUT	Cuts the selection
COPY	Copies the selection
PASTE	Pastes the clipboard contents
DELETE	Deletes the selection

## Time display

Control	Assignment
TIME CODE	checked if counter displays time code
FEET	(not assigned)
BEATS	checked if counter displays bars/beats/format/ticks
Time display	displays time code or bars/beats/format/ticks
RUDE SOLO LIGHT	flashes if any track is soloed

## LOCATE/NUMBERS section

Control	Assignment
CLR	Deletes current marker
=	Creates a marker at the current song position
/	equivalent to computer keyboard <input type="checkbox"/> key
*	equivalent to computer keyboard <input type="checkbox"/> key




Control	Assignment
-	equivalent to computer keyboard  key
+	equivalent to computer keyboard  key
0..9	Normal: 1..9 recalls marker 1..9 Goto Marker: equivalent to computer keyboard  ..  key
SHIFT/ADD	Switches to Global View and enables 1: MIDI Tracks 2: Inputs 3: Audio Tracks 4: Audio Instruments 5: Aux Tracks 6: Busses 7: Outputs and Master object 9: 0:
EDIT TOOL	selects tool: 1: arrow 2: pencil 3: rubber 4: text edit 5: scissors 6: glue 7: solo 8: mute 9: zoom
0	Goto Marker: equivalent to computer keyboard  key
.	Normal: enters Goto Marker Mode Goto Marker: confirms entered marker number
ENTER	Normal: enters folder of selected track Goto Marker: confirms entered marker number


## Transport section

Control	Assignment
AUDITION	-
PRE	Sets left locator
IN	Sets Drop In locator

Control	Assignment
OUT	Sets Drop Out locator
POST	Sets right locator
RTZ	goes to the left locator
END	goes to the right locator
ON LINE	toggles internal/external Sync
LOOP	toggles Cycle mode
QUICK PUNCH	toggles Drop mode
REWIND	Shuttles backward
FAST FWD	Shuttles forward
STOP	Stop
PLAY	Play
SHIFT/ADD	Pause
RECORD	Record

## Cursor buttons

Control	Assignment
Cursor Up	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms out vertically
SHIFT/ADD	Zoom mode: Individual track zoom in
CMD/ALT/FINE	Page Up
OPTION/ALL + CMD/ALT/FINE	Scroll to top
Cursor Down	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms out vertically
SHIFT/ADD	Zoom mode: Individual track zoom out
CMD/ALT/FINE	Page Down
OPTION/ALL + CMD/ALT/FINE	Scroll to bottom
Cursor Left	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms out horizontally

Control	Assignment
SHIFT/ADD	Zoom mode: Individual track zoom reset of tracks with same type
CMD/ALT/FINE	Page Left
OPTION/ALL + CMD/ALT/FINE	Scroll to left border
Cursor Right	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms in horizontally
SHIFT/ADD	Zoom mode: Individual track zoom reset of all tracks
CMD/ALT/FINE	Page Right
OPTION/ALL + CMD/ALT/FINE	Scroll to right border
MODE	Toggles between Cursor and Zoom mode

## Jog wheel

Control	Assignment
Jog wheel	Default: move SPL by one bar Scrub: scrubbing Shuttle: Shuttle mode
SCRUB	toggles Scrub mode
SHUTTLE	toggles Shuttle mode

## Foot switches

Control	Assignment
Foot Switch 1	Play or Stop
Foot Switch 2	Record Toggle

## 4 Assignment overview – Baby HUI

A right-aligned **SHIFT** below a button description means: while holding down **SHIFT**, the button has this alternate meaning.

### Channel strips

Control	Assignment
Rotary encoder	adjusts parameter selected in the Encoder Assignment Section
Rotary encoder push button	selects track
	<b>SHIFT</b> toggles Record Ready
Signal indicator	illuminates when a signal is present in the channel. It also indicates when the channel is selected
MUTE	toggles Mute
SOLO	toggles Solo
Fader	adjusts volume

### Encoder Assignment Section

Control	Assignment
PAN	assigns Pan to Rotary encoders
SEND 1	assigns Send 1 Level to Rotary encoders
SEND 2	assigns Send 2 Level to Rotary encoders
SEND 3	assigns Send 3 Level to Rotary encoders
SEND 4	assigns Send 4 Level to Rotary encoders



## Automation Section

Control	Assignment
BYPASS/OFF	sets selected track to automation mode " Off" .
SHIFT	toggles automation playback and recording of Volume
READ	sets selected track to automation mode " Read" .
SHIFT	toggles automation playback and recording of Mute
WRITE	sets selected track to automation mode " Write" .
SHIFT	toggles automation playback and recording of Pan
TOUCH	sets selected track to automation mode " Touch" .
SHIFT	toggles automation playback and recording of Send Level

## Display Section

Control	Assignment
TRANSPORT	toggles the Transport window
MEM-LOC	toggles the Marker List window
MIXER	toggles the Track Mixer window
EDIT	toggles the Arrange window

## Utility Section

Control	Assignment
UNDO	performs undo
SHIFT	Shifts to second meaning of some buttons (labelled below them in a box)

## Navigation section

Control	Assignment
RTZ	goes to the left locator
SHIFT	Sets Drop In locator
END	goes to the right locator
SHIFT	Sets Drop Out locator

<b>Control</b>	<b>Assignment</b>
BANK SELECT Left	shifts channel strips by one bank to the left
SHIFT	shifts channel strips by one channel to the left
BANK SELECT Right	shifts channel strips by one bank to the right
SHIFT	shifts channel strips by one channel to the right

## Transport section

<b>Control</b>	<b>Assignment</b>
REWIND	Shuttles backward
FAST FWD	Shuttles forward
STOP	Stop
PLAY	Play
RECORD	Record

## 5 Assignment overview – DM2000

A right-aligned modifier button below a button description means: while holding down this modifier, the button has this alternate meaning.

### MATRIX SELECT section

Control	Assignment
MATRIX 1	toggles Encoder Push-Switch buttons between normal behavior and setting default value
MATRIX 2	toggles the Encoder Push-Switch buttons between Send Position and Send Mute mode
MATRIX 4	If ENCODER MODE [ASSIGN 4] is on, toggles the channel strip SEL buttons between Insert Select (indicator off) and Insert Bypass mode (indicator on)

### AUX SELECT section

Control	Assignment
AUX 1	assigns Send 1 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 1 destination assignment
USER 4	as above, but Send 6
AUX 2	assigns Send 2 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 2 destination assignment
USER 4	as above, but Send 7
AUX 3	assigns Send 3 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 3 destination assignment
USER 4	as above, but Send 8

<b>Control</b>	<b>Assignment</b>
AUX 4	assigns Send 4 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 4 destination assignment
AUX 5	assigns Send 5 Level to Encoders, and Send 5..8 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 5 destination assignment

## ENCODER MODE section

<b>Control</b>	<b>Assignment</b>
PAN	assigns Pan to Encoders; assigns selected track's pan/surround parameters to DSP Encoders
AUX/MTRX	assigns Send 1 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 1 destination assignment
ASSIGN 1	assigns Track Input to Encoders. While held down, the Channel Strip displays show the current Track Input assignment
ASSIGN 2	assigns Track Output to Encoders. While held down, the Channel Strip displays show the current Track Output assignment
ASSIGN 3	When Encoders display a Send level, switches them to Send Destination assignment mode. Press Encoder Push-Switch or ASSIGN 3 again to confirm the assignment.
ASSIGN 4	determines mode of channel strip SEL buttons: <ul style="list-style-type: none"><li>• indicator off: track selection</li><li>• indicator on: Insert selection or Insert Bypass, depending on MATRIX SELECT [MATRIX 4].</li></ul>

## FADER MODE section

<b>Control</b>	<b>Assignment</b>
FADER	toggles Flip mode
AUX/MTRX	toggles Flip mode

## DISPLAY ACCESS section

Control	Assignment
METER	Clears Overload LEDs
	USER 4 Switches to Global View and enables MIDI Tracks
	USER 13 Toggles Arrange window

## EFFECTS/PLUG-INS section

Control	Assignment
Display	toggles the Sample Editor window
5	-
6	toggles DSP display between modes „ track name / parameter name“ and „ parameter name / parameter value“
7	toggles bypass of currently edited plug-in insert
8	toggles between Plug-in Assign and Plug-in Edit modes
Parameter Up & Parameter Down	Plug-In Edit: shifts parameter display by the number of Parameter controls in the control surface group (usually four)
	USER 13 Plug-In Edit: shifts parameter display by one

<b>Control</b>	<b>Assignment</b>
Parameter control 1-4 push-switch	<p>Assignment Pan:</p> <ul style="list-style-type: none"> <li>• Parameter control 1 push-switch sets Pan or Surround Angle to center</li> <li>• Parameter control 2 push-switch sets Surround Diversity to center</li> <li>• Parameter control 3 push-switch sets Surround LFE to center</li> <li>• Parameter control 4 push-switch sets Surround Mode to center</li> </ul> <p>Assignment Send:</p> <ul style="list-style-type: none"> <li>• toggle Send 1..4 or 5..8 Mute</li> </ul> <p>Plug-In Assign:</p> <ul style="list-style-type: none"> <li>• confirm insert 1..4 or 5..8 plug-in selection, selects this insert and enters Plug-In Edit mode</li> </ul> <p>Plug-In Edit:</p> <ul style="list-style-type: none"> <li>• sets value to default, or toggles switch</li> </ul>
Parameter controls	<p>Assignment Pan:</p> <ul style="list-style-type: none"> <li>• Parameter control 1 controls Pan or Surround Angle</li> <li>• Parameter control 2 controls Surround Diversity</li> <li>• Parameter control 3 controls Surround LFE</li> <li>• Parameter control 4 controls Surround Mode</li> </ul> <p>Assignment Send:</p> <ul style="list-style-type: none"> <li>• control Send 1..4 or 5..8 Level</li> </ul> <p>Plug-In Assign:</p> <ul style="list-style-type: none"> <li>• assigns insert 1..4 or 5..8 plug-in</li> </ul> <p>Plug-In Edit:</p> <ul style="list-style-type: none"> <li>• sets value to default</li> </ul>

## LCD

<b>Display</b>	<b>Assignment</b>
LCD	displays parameter details, plug-in selection or plug-in parameters
TIME CODE	checked if counter displays time code
FEET	(not assigned)
BEATS	checked if counter displays bars/beats/format/ticks

Display	Assignment
Time display	displays time code or bars/beats/format/ticks
SELECT ASSIGN	displays the Encoder assignment as follows: Pan, Snd1 .. Snd8, S1As .. S8As, In, Out

## TRACK ARMING section

Control	Assignment
1 .. 24	toggles Record Ready
USER 5	disables Record Ready for all tracks
MASTER	Disable Record Ready on all tracks

## AUTOMIX section

Control	Assignment
DISPLAY	while held down, the Channel Strip displays display the tracks' automation mode
REC	sets selected track to automation mode " Write" . While held down, channel Strip AUTO buttons set automation mode to " Write"
USER 5	sets all tracks to automation mode " Write"
ABORT/UNDO	sets selected track to automation mode " Touch" . While held down, channel Strip AUTO buttons set automation mode to " Touch"
USER 5	sets all tracks to automation mode " Touch"
AUTOREC	sets selected track to automation mode " Latch" . While held down, channel Strip AUTO buttons set automation mode to " Latch"
USER 5	sets all tracks to automation mode " Latch"
RETURN	sets selected track to automation mode " Read" . While held down, channel Strip AUTO buttons set automation mode to Read
USER 5	sets all tracks to automation mode " Read"
RELATIVE	-

Control	Assignment
TOUCH SENSE	sets selected track to automation mode " Off" . While held down, channel Strip AUTO buttons set automation mode to " Off"
USER 5	sets all tracks to automation mode " Off"
OVERWRITE [FADER]	toggles automation playback and recording of Volume
OVERWRITE [PAN]	toggles automation playback and recording of Pan
OVERWRITE [EQ]	toggles automation playback and recording of Plug-in parameters
OVERWRITE [ON]	toggles automation playback and recording of Mute
OVERWRITE [AUX]	toggles automation playback and recording of Send Level
OVERWRITE [AUX ON]	-

## USER DEFINED KEYS section

Control	Assignment
DISPLAY	toggles the Audio Pool window
1	toggles the Transport window
2	shifts channel strips by one bank to the left
3	shifts channel strips by one bank to the right
4	Shifts to second meaning of some buttons See also description of other buttons
5	While held down, value change mode is set to „ full“ : relative value changes to go minimum or maximum See also description of other buttons



Control	Assignment
6	enters Group Edit mode: <ul style="list-style-type: none"> <li>• the upper line in the DSP edit section displays the currently edited group number and name</li> <li>• Parameter control push-switch buttons 1..4 toggle properties of the currently edited group, labelled in the lower line</li> <li>• When INSERT/PARAM is off, DSP Edit Scroll Encoder scrolls through the group properties. Otherwise it selects the currently edited group</li> <li>• the SELECT buttons toggle group membership of the track</li> </ul>
	USER 4 switches to Track View
7	toggles the Group Clutch
	USER 4 switches to Extended Track View
8	creates a new group and enters Group Edit mode (see above)
	USER 4 switches to Global View
9	toggles between the Arrange and Track Mixer windows
10	shifts channel strips by one channel to the left
11	shifts channel strips by one channel to the right
12	While held down, the Group Clutch is engaged, i.e. all groups are disabled
13	While held down, value change mode is set to „fine“ : relative value changes work with maximum resolution See also description of other buttons
14	-
15	performs undo
	USER 4 performs redo
	USER 5 opens undo history window
16	saves the song
	USER 5 Save As...: saves the song with a different name

## LOCATOR section




Control	Assignment
DISPLAY	toggles the Marker List window
1..8	recalls marker 1..8
USER 4	Switches to Global View and enables <ul style="list-style-type: none"> <li>1: MIDI Tracks</li> <li>2: Inputs</li> <li>3: Audio Tracks</li> <li>4: Audio Instruments</li> <li>5: Aux Tracks</li> <li>6: Busses</li> <li>7: Outputs and Master object</li> </ul>
DISPLAY HISTORY [FORWARD]	selects tool: <ul style="list-style-type: none"> <li>1: arrow</li> <li>2: pencil</li> <li>3: rubber</li> <li>4: text edit</li> <li>5: scissors</li> <li>6: glue</li> <li>7: solo</li> <li>8: mute</li> </ul>
AUDITION	-
PRE	Sets left locator
IN	Sets Drop In locator
OUT	Sets Drop Out locator
POST	Sets right locator
RETURN TO ZERO	goes to the left locator
END	goes to the right locator
ONLINE	toggles internal/external Sync
QUICK PUNCH	toggles Drop mode


## Channel strips

Control	Assignment
Level Meters	display momentary and peak level
Encoder	adjusts parameter selected in the AUX SELECT section
Encoder Push-Switch	Pan selected: sets Pan to center if MATRIX 1 on Send 1..8 selected: edits Send Pre/Post, toggles Send Mute or sets Send Level to default value Send Assign, Input or Output: confirms selection
AUTO	cycles automation mode. With an automation mode button held down, sets this automation mode
SEL	If ENCODER MODE [ASSIGN 4] off: selects track If ENCODER MODE [ASSIGN 4] on: <ul style="list-style-type: none"> <li>• BYPASS off: selects track for plug-in selection</li> <li>• BYPASS on: toggles bypass of currently selected insert slot</li> </ul>
USER 4	Sets volume to unity level
MATRIX SELECT 1	Sets volume to unity level
SOLO	toggles Solo
USER 5	disables Solo for all tracks
ON	toggles Mute
USER 5	unmutes all tracks
Channel strip display	displays track name, or Send, In or Out assignment display
Fader	adjusts volume, or duplicates Encoder in Flip mode

## Transport/cursor section

Control	Assignment
REW	Shuttles backward
FF	Shuttles forward
STOP	Stop
PLAY	Play
USER 4	Pause

Control	Assignment
REC	Record
DISPLAY HISTORY [BACK]	-
DISPLAY HISTORY [FORWARD]	selects the next tool. While held down, digit buttons select a specific tool
SCRUB	toggles Scrub mode
SHUTTLE	toggles Shuttle mode
Parameter Wheel	Default: move SPL by one bar Scrub: scrubbing Shuttle: Shuttle mode
DEC	Default: leaves Folder Goto Marker: cancels dialog
USER 13	Toggles Audio window
INC	Toggles between Cursor and Zoom mode
Cursor Up	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms out vertically
USER 4	Zoom mode: Individual track zoom in
USER 13	Page Up
USER 5 + USER 13	Scroll to top
Cursor Down	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms out vertically
USER 4	Zoom mode: Individual track zoom out
USER 13	Page Down
USER 5 + USER 13	Scroll to bottom
Cursor Left	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms out horizontally
USER 4	Zoom mode: Individual track zoom reset of tracks with same type
USER 13	Page Left

<b>Control</b>	<b>Assignment</b>
USER 5 + USER 13	Scroll to left border
Cursor Right	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms in horizontally
USER 4	Zoom mode: Individual track zoom reset of all tracks
USER 13	Page Right
USER 5 + USER 13	Scroll to right border
ENTER	enters folder of selected track

## 6 Assignment overview – DM1000

A right-aligned modifier button below a button description means: while holding down this modifier, the button has this alternate meaning.

### DISPLAY ACCESS section

Control	Assignment
DISPLAY	toggles the Sample Editor window
AUTOMIX	while held down, the Channel Strip displays display the tracks' automation mode
PAIR/GROUP	enters Group Edit mode: <ul style="list-style-type: none"> <li>• the upper line in the DSP edit section displays the currently edited group number and name</li> <li>• Parameter control push-switch buttons 1..4 toggle properties of the currently edited group, labelled in the lower line</li> <li>• When INSERT/PARAM is off, DSP Edit Scroll Encoder scrolls through the group properties. Otherwise it selects the currently edited group</li> <li>• the SELECT buttons toggle group membership of the track</li> </ul>
DAW SHIFT/ADD	switches to Track View
METER	Clears Overload LEDs
DAW SHIFT/ADD	Switches to Global View and enables MIDI Tracks
DAW ALT/FINE	Toggles Arrange window
EFFECT	toggles the Sample Editor window

### AUX SELECT section

Control	Assignment
AUX 1	assigns Send 1 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 1 destination assignment
DAW SHIFT/ADD	as above, but Send 6

Control	Assignment
AUX 2	assigns Send 2 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 2 destination assignment
DAW SHIFT/ADD	as above, but Send 7
AUX 3	assigns Send 3 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 3 destination assignment
DAW SHIFT/ADD	as above, but Send 8
AUX 4	assigns Send 4 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 4 destination assignment
AUX 5	assigns Send 5 Level to Encoders, and Send 5..8 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 5 destination assignment
AUX 6	toggles Encoder Push-Switch buttons between normal behavior and setting default value
AUX 8	determines mode of channel strip SEL buttons while channel strip AUTO button is off: <ul style="list-style-type: none"> <li>• indicator off: track selection</li> <li>• indicator on: Insert selection</li> </ul>

## ENCODER MODE section

Control	Assignment
PAN	assigns Pan to Encoders; assigns selected track's pan/surround parameters to DSP Encoders
AUX	assigns Send 1 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 1 destination assignment

## FADER MODE section

Control	Assignment
FADER MODE	toggles Flip mode

## LCD Function

Control	Assignment
Left & Right	Plug-In Edit: shifts parameter display by the number of Parameter controls in the control surface group (usually four)
DAW ALT/FINE	Plug-In Edit: shifts parameter display by one

## LCD

The LCD displays different data, depending on the page you have selected with the buttons F2, F3 and F4:

- **INSERT ASSIGN/EDIT Display Mode:** parameter details, plug-in selection or plug-in parameters. Press [F2] to select this mode.

Display	Assignment
LCD	displays parameter details, plug-in selection or plug-in parameters
TIME CODE	checked if counter displays time code
FEET	(not assigned)
BEATS	checked if counter displays bars/beats/format/ticks
Time display	displays time code or bars/beats/format/ticks
SELECT ASSIGN	displays the Encoder assignment as follows: Pan, Snd1 .. Snd8, S1As .. S8As, In, Out

## LCD Insert page

Control	Assignment
ASSIGN	-
COMPARE	toggles DSP display between modes „track name / parameter name“ and „parameter name / parameter value“
BYPASS	toggles bypass of currently edited plug-in insert
INSERT/PARAM	toggles between Plug-in Assign and Plug-in Edit modes



Control	Assignment
Parameter control 1-4 push-switch	<p>Assignment Pan:</p> <ul style="list-style-type: none"> <li>Parameter control 1 push-switch sets Pan or Surround Angle to center</li> <li>Parameter control 2 push-switch sets Surround Diversity to center</li> <li>Parameter control 3 push-switch sets Surround LFE to center</li> <li>Parameter control 4 push-switch sets Surround Mode to center</li> </ul> <p>Assignment Send:</p> <ul style="list-style-type: none"> <li>toggle Send 1..4 or 5..8 Mute</li> </ul> <p>Plug-In Assign:</p> <ul style="list-style-type: none"> <li>confirm insert 1..4 or 5..8 plug-in selection, selects this insert and enters Plug-In Edit mode</li> </ul> <p>Plug-In Edit:</p> <ul style="list-style-type: none"> <li>sets value to default, or toggles switch</li> </ul>
Parameter controls	<p>Assignment Pan:</p> <ul style="list-style-type: none"> <li>Parameter control 1 controls Pan or Surround Angle</li> <li>Parameter control 2 controls Surround Diversity</li> <li>Parameter control 3 controls Surround LFE</li> <li>Parameter control 4 controls Surround Mode</li> </ul> <p>Assignment Send:</p> <ul style="list-style-type: none"> <li>control Send 1..4 or 5..8 Level</li> </ul> <p>Plug-In Assign:</p> <ul style="list-style-type: none"> <li>assigns insert 1..4 or 5..8 plug-in</li> </ul> <p>Plug-In Edit:</p> <ul style="list-style-type: none"> <li>sets value to default</li> </ul>

## Data Entry section

Control	Assignment
Parameter Wheel	<p>Default: move SPL by one bar</p> <p>Scrub: scrubbing</p> <p>Shuttle: Shuttle mode</p>
- (DEC)	<p>Default: leaves Folder</p> <p>Goto Marker: cancels dialog</p>

Control	Assignment
DAW ALT/FINE	Toggles Audio window
+ (INC)	enters folder of selected track

## Channel strips

Control	Assignment
Level Meters	display momentary and peak level
Encoder	adjusts parameter selected in the AUX SELECT section
Encoder Push-Switch	Pan selected: sets Pan to center if MATRIX 1 on Send 1..8 selected: edits Send Pre/Post, toggles Send Mute or sets Send Level to default value Send Assign, Input or Output: confirms selection
SEL	If AUTO off: <ul style="list-style-type: none"> <li>• AUX [AUX 8] off: selects track</li> <li>• AUX [AUX 8] on: selects track for insert assignment</li> </ul> If AUTO on: <ul style="list-style-type: none"> <li>• cycles automation mode. With an automation mode button held down, sets this automation mode</li> </ul>
DAW SHIFT/ADD	Sets volume to unity level
MATRIX SELECT 1	Sets volume to unity level
SOLO	toggles Solo
DAW OPTION/ALL	disables Solo for all tracks
ON	toggles Mute
DAW OPTION/ALL	unmutes all tracks
Fader	adjusts volume, or duplicates Encoder in Flip mode

## Stereo Channel strip

Control	Assignment
AUTO	toggles channel strips' SEL buttons between track and insert selection

## USER DEFINED KEYS section

These keys can be assigned to the following functions:

Control	Assignment
DAW WIN STATUS	toggles the Audio Pool window
DAW REC/RDY 1 .. 16	toggles Record Ready
DAW WIN TRANSPORT	toggles the Transport window
DAW BANK-	shifts channel strips by one bank to the left
DAW BANK+	shifts channel strips by one bank to the right
DAW SHIFT/ADD	Shifts to second meaning of some buttons See also description of other buttons
DAW OPTION/ALL	While held down, value change mode is set to „full“ : relative value changes to go minimum or maximum See also description of other buttons
DAW GROUP STATUS	enters Group Edit mode: <ul style="list-style-type: none"> <li>• the upper line in the DSP edit section displays the currently edited group number and name</li> <li>• Parameter control push-switch buttons 1..4 toggle properties of the currently edited group, labelled in the lower line</li> <li>• When INSERT/PARAM is off, DSP Edit Scroll Encoder scrolls through the group properties. Otherwise it selects the currently edited group</li> <li>• the SELECT buttons toggle group membership of the track</li> </ul>
DAW SHIFT/ADD	switches to Track View
DAW SUSPEND	toggles the Group Clutch
DAW SHIFT/ADD	switches to Extended Track View
DAW CREATE GROUP	creates a new group and enters Group Edit mode (see above)
DAW SHIFT/ADD	switches to Global View
DAW WIN MIX/EDIT	toggles between the Arrange and Track Mixer windows
DAW CHANNEL -	shifts channel strips by one channel to the left

<b>Control</b>	<b>Assignment</b>
DAW CHANNEL+	shifts channel strips by one channel to the right
DAW CTRL/CLUTCH	While held down, the Group Clutch is engaged, i.e. all groups are disabled
DAW ALT/FINE	While held down, value change mode is set to „fine“ : relative value changes work with maximum resolution See also description of other buttons
DAW MONI STATUS	-
DAW UNDO	performs undo
DAW SHIFT/ADD	performs redo
DAW OPTION/ALL	opens undo history window
DAW SAVE	saves the song
DAW WIN MEM-LOC	toggles the Marker List window
DAW OPTION/ALL	Save As...: saves the song with a different name
DAW EDIT TOOL	selects the next tool. While held down, digit buttons select a specific tool
DAW WIN INSERT	toggles the Sample Editor window
DAW REC/RDY ALL	Disable Record Ready on all tracks
DAW SCRUB	toggles Scrub mode
DAW SHUTTLE	toggles Shuttle mode
DAW REW	Shuttles backward
DAW FF	Shuttles forward
DAW STOP	Stop
DAW PLAY	Play
DAW SHIFT/ADD	Pause
DAW REC	Record
DAW PRE	Sets left locator
DAW IN	Sets Drop In locator
DAW OUT	Sets Drop Out locator
DAW POST	Sets right locator
DAW RTZ	goes to the left locator
DAW END	goes to the right locator

<b>Control</b>	<b>Assignment</b>
DAW ONLINE	toggles internal/external Sync
DAW QUICK PUNCH	toggles Drop mode
DAW AUTO FADER	toggles automation playback and recording of Volume
DAW AUTO PAN	toggles automation playback and recording of Pan
DAW AUTO PLUGIN	toggles automation playback and recording of Plug-in parameters
DAW AUTO MUTE	toggles automation playback and recording of Mute
DAW AUTO SEND	toggles automation playback and recording of Send Level
DAW AUTO SEND MUTE	-
DAW AUTO WRITE	sets selected track to automation mode " Write" . While held down, channel Strip AUTO buttons set automation mode to " Write"
DAW OPTION/ALL	sets all tracks to automation mode " Write"
DAW AUTO TOUCH	sets selected track to automation mode " Touch" . While held down, channel Strip AUTO buttons set automation mode to " Touch"
DAW OPTION/ALL	sets all tracks to automation mode " Touch"
DAW AUTO LATCH	sets selected track to automation mode " Latch" . While held down, channel Strip AUTO buttons set automation mode to " Latch"
DAW OPTION/ALL	sets all tracks to automation mode " Latch"
DAW AUTO READ	sets selected track to automation mode " Read" . While held down, channel Strip AUTO buttons set automation mode to Read
DAW OPTION/ALL	sets all tracks to automation mode " Read"
DAW AUTO TRIM	-
DAW AUTO OFF	sets selected track to automation mode " Off" . While held down, channel Strip AUTO buttons set automation mode to " Off"

<b>Control</b>	<b>Assignment</b>
DAW OPTION/ALL	sets all tracks to automation mode " Off"
DAW AUTO STATUS	while held down, the Channel Strip displays display the tracks' automation mode

## 7 Assignment overview – 02R96

A right-aligned modifier button below a button description means: while holding down this modifier, the button has this alternate meaning.

### DISPLAY ACCESS section

Control	Assignment
METER	Clears Overload LEDs

### AUX SELECT section

Control	Assignment
AUX 1	assigns Send 1 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 1 destination assignment
AUX 2	assigns Send 2 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 2 destination assignment
AUX 3	assigns Send 3 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 3 destination assignment
AUX 4	assigns Send 4 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 4 destination assignment
AUX 5	assigns Send 5 Level to Encoders, and Send 5..8 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 5 destination assignment

## ENCODER MODE section

Control	Assignment
PAN	assigns Pan to Encoders; assigns selected track's pan/surround parameters to DSP Encoders
AUX	assigns Send 1 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 1 destination assignment

## FADER MODE section

Control	Assignment
FADER	toggles Flip mode
AUX/MTRX	toggles Flip mode

## EFFECTS/PLUG-INS section

Control	Assignment
Display	toggles the Sample Editor window
PLUG-INS	toggles Encoder Push-Switch buttons between normal behavior and setting default value
CHANNEL INSERTS	determines mode of channel strip SEL buttons: <ul style="list-style-type: none"> <li>• indicator off: track selection</li> <li>• indicator on: Insert selection</li> </ul>
1	-
2	toggles DSP display between modes „ track name / parameter name“ and „ parameter name / parameter value“
3	toggles bypass of currently edited plug-in insert
4	toggles between Plug-in Assign and Plug-in Edit modes
Parameter Up & Parameter Down	Plug-In Edit: shifts parameter display by the number of Parameter controls in the control surface group (usually four)



Control	Assignment
Parameter control 1-4 push-switch	<p>Assignment Pan:</p> <ul style="list-style-type: none"> <li>Parameter control 1 push-switch sets Pan or Surround Angle to center</li> <li>Parameter control 2 push-switch sets Surround Diversity to center</li> <li>Parameter control 3 push-switch sets Surround LFE to center</li> <li>Parameter control 4 push-switch sets Surround Mode to center</li> </ul> <p>Assignment Send:</p> <ul style="list-style-type: none"> <li>toggle Send 1..4 or 5..8 Mute</li> </ul> <p>Plug-In Assign:</p> <ul style="list-style-type: none"> <li>confirm insert 1..4 or 5..8 plug-in selection, selects this insert and enters Plug-In Edit mode</li> </ul> <p>Plug-In Edit:</p> <ul style="list-style-type: none"> <li>sets value to default, or toggles switch</li> </ul>
Parameter controls	<p>Assignment Pan:</p> <ul style="list-style-type: none"> <li>Parameter control 1 controls Pan or Surround Angle</li> <li>Parameter control 2 controls Surround Diversity</li> <li>Parameter control 3 controls Surround LFE</li> <li>Parameter control 4 controls Surround Mode</li> </ul> <p>Assignment Send:</p> <ul style="list-style-type: none"> <li>control Send 1..4 or 5..8 Level</li> </ul> <p>Plug-In Assign:</p> <ul style="list-style-type: none"> <li>assigns insert 1..4 or 5..8 plug-in</li> </ul> <p>Plug-In Edit:</p> <ul style="list-style-type: none"> <li>sets value to default</li> </ul>

## LCD

The LCD displays different data, depending on the page you have selected with the buttons F2, F3 and F4 (see page 171ff of the 02R96 user manual):

- **INSERT ASSIGN/EDIT Display Mode:** parameter details, plug-in selection or plug-in parameters. Press [F2] to select this mode.

Display	Assignment
TIME CODE	checked if counter displays time code
FEET	(not assigned)

Display	Assignment
BEATS	checked if counter displays bars/beats/format/ticks
Time display	displays time code or bars/beats/format/ticks
SELECT ASSIGN	displays the Encoder assignment as follows: Pan, Snd1 .. Snd8, S1As .. S8As, In, Out

- Channel Display Mode: Encoder values and Channel Strip display). Press [F3] to select this mode.
- level meters. Press [F4] to select this mode.

## USER DEFINED KEYS section

Control	Assignment
DISPLAY	while held down, the Channel Strip displays display the tracks' automation mode
1	toggles between the Arrange and Track Mixer windows
2	toggles the Group Clutch
3	sets selected track to automation mode " Write" . While held down, channel Strip AUTO buttons set automation mode to " Write"
4	sets selected track to automation mode " Touch" . While held down, channel Strip AUTO buttons set automation mode to " Touch"
5	sets selected track to automation mode " Latch" . While held down, channel Strip AUTO buttons set automation mode to " Latch"
6	sets selected track to automation mode " Read" . While held down, channel Strip AUTO buttons set automation mode to Read
7	-
8	sets selected track to automation mode " Off" . While held down, channel Strip AUTO buttons set automation mode to " Off"
9	shifts channel strips by one bank to the left
10	shifts channel strips by one bank to the right

Control	Assignment
11	toggles automation playback and recording of Volume
12	toggles automation playback and recording of Mute
13	toggles automation playback and recording of Pan
14	toggles automation playback and recording of Send Level
15	-
16	toggles automation playback and recording of Plug-in parameters

## Channel strips





Control	Assignment
Encoder	adjusts parameter selected in the AUX SELECT section
Encoder Push-Switch	Pan selected: sets Pan to center if EFFECTS/PLUG-INS [PLUG-INS] on Send 1..8 selected: edits Send Pre/Post, toggles Send Mute or sets Send Level to default value Send Assign, Input or Output: confirms selection
AUTO	cycles automation mode. With an automation mode button held down, sets this automation mode
SEL	If EFFECTS/PLUG-INS [CHANNEL INSERTS] off: selects track If EFFECTS/PLUG-INS [CHANNEL INSERTS] on: selects track for plug-in selection
SOLO	toggles Solo
ON	toggles Mute
Fader	adjusts volume, or duplicates Encoder in Flip mode

## MACHINE CONTROL section

Control	Assignment
DISPLAY	toggles the Marker List window
1..8	recalls marker 1..8
REW	Shuttles backward

Control	Assignment
FF	Shuttles forward
STOP	Stop
PLAY	Play
REC	Record

## Data entry section

Control	Assignment
SCRUB	toggles Scrub mode
SHUTTLE	toggles Shuttle mode
Parameter Wheel	Default: move SPL by one bar Scrub: scrubbing Shuttle: Shuttle mode
ENTER	enters folder of selected track
DEC	leaves Folder
INC	Toggles between Cursor and Zoom mode
Cursor Up	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms out vertically
Cursor Down	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms out vertically
Cursor Left	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms out horizontally
Cursor Right	Cursor mode: equivalent to computer keyboard  key Zoom mode: zooms in horizontally

## 8 Assignment overview – 01V96

A right-aligned modifier button below a button description means: while holding down this modifier, the button has this alternate meaning.

### DISPLAY ACCESS section

Control	Assignment
DISPLAY	toggles the Sample Editor window
AUTOMIX	while held down, the Channel Strip displays display the tracks' automation mode
PAIR/GROUP	enters Group Edit mode: <ul style="list-style-type: none"> <li>• the upper line in the DSP edit section displays the currently edited group number and name</li> <li>• Parameter control push-switch buttons 1..4 toggle properties of the currently edited group, labelled in the lower line</li> <li>• When INSERT/PARAM is off, DSP Edit Scroll Encoder scrolls through the group properties. Otherwise it selects the currently edited group</li> <li>• the SELECT buttons toggle group membership of the track</li> </ul>
DAW SHIFT/ADD	switches to Track View
EFFECT	toggles the Sample Editor window

### FADER MODE section

Control	Assignment
AUX 1	assigns Send 1 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 1 destination assignment
DAW SHIFT/ADD	as above, but Send 6
AUX 2	assigns Send 2 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 2 destination assignment
DAW SHIFT/ADD	as above, but Send 7

Control	Assignment
AUX 3	assigns Send 3 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 3 destination assignment
DAW SHIFT/ADD	as above, but Send 8
AUX 4	assigns Send 4 Level to Encoders, and Send 1..4 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 4 destination assignment
AUX 5	assigns Send 5 Level to Encoders, and Send 5..8 Levels to DSP Encoders. While held down, the Channel Strip displays show the current Send 5 destination assignment
AUX 6	toggles Encoder Push-Switch buttons between normal behavior and setting default value
AUX 7	assigns Pan to Encoders; assigns selected track's pan/surround parameters to DSP Encoders
AUX 8	determines mode of channel strip SEL buttons while channel strip AUTO button is off: <ul style="list-style-type: none"> <li>• indicator off: track selection</li> <li>• indicator on: Insert selection</li> </ul>
HOME	toggles Flip mode

## LCD Function

Control	Assignment
Left & Right	Plug-In Edit: shifts parameter display by the number of Parameter controls in the control surface group (usually four)
DAW ALT/FINE	Plug-In Edit: shifts parameter display by one
F1	Clears Overload LEDs
DAW SHIFT/ADD	Switches to Global View and enables MIDI Tracks
DAW ALT/FINE	Toggles Arrange window

## LCD

The LCD displays different data, depending on the page you have selected with the buttons F2, F3 and F4:

- **INSERT ASSIGN/EDIT Display Mode:** parameter details, plug-in selection or plug-in parameters. Press [F2] to select this mode.

Display	Assignment
LCD	displays parameter details, plug-in selection or plug-in parameters
TIME CODE	checked if counter displays time code
FEET	(not assigned)
BEATS	checked if counter displays bars/beats/format/ticks
Time display	displays time code or bars/beats/format/ticks
SELECT ASSIGN	displays the Encoder assignment as follows: Pan, Snd1 .. Snd8, S1As .. S8As, In, Out

## LCD Insert page

Control	Assignment
ASSIGN	-
COMPARE	toggles DSP display between modes „track name / parameter name“ and „parameter name / parameter value“
BYPASS	toggles bypass of currently edited plug-in insert
INSERT/PARAM	toggles between Plug-in Assign and Plug-in Edit modes

Control	Assignment
Parameter control 1-4 push-switch	<p>Assignment Pan:</p> <ul style="list-style-type: none"> <li>• Parameter control 1 push-switch sets Pan or Surround Angle to center</li> <li>• Parameter control 2 push-switch sets Surround Diversity to center</li> <li>• Parameter control 3 push-switch sets Surround LFE to center</li> <li>• Parameter control 4 push-switch sets Surround Mode to center</li> </ul> <p>Assignment Send:</p> <ul style="list-style-type: none"> <li>• toggle Send 1..4 or 5..8 Mute</li> </ul> <p>Plug-In Assign:</p> <ul style="list-style-type: none"> <li>• confirm insert 1..4 or 5..8 plug-in selection, selects this insert and enters Plug-In Edit mode</li> </ul> <p>Plug-In Edit:</p> <ul style="list-style-type: none"> <li>• sets value to default, or toggles switch</li> </ul>
Parameter controls	<p>Assignment Pan:</p> <ul style="list-style-type: none"> <li>• Parameter control 1 controls Pan or Surround Angle</li> <li>• Parameter control 2 controls Surround Diversity</li> <li>• Parameter control 3 controls Surround LFE</li> <li>• Parameter control 4 controls Surround Mode</li> </ul> <p>Assignment Send:</p> <ul style="list-style-type: none"> <li>• control Send 1..4 or 5..8 Level</li> </ul> <p>Plug-In Assign:</p> <ul style="list-style-type: none"> <li>• assigns insert 1..4 or 5..8 plug-in</li> </ul> <p>Plug-In Edit:</p> <ul style="list-style-type: none"> <li>• sets value to default</li> </ul>

## LCD Channel page

Control	Assignment
Encoder	adjusts parameter selected in the FADER MODE section
Encoder Switch	<p>Pan selected: sets Pan to center if MATRIX 1 on</p> <p>Send 1..8 selected: edits Send Pre/Post, toggles Send Mute or sets Send Level to default value</p> <p>Send Assign, Input or Output: confirms selection</p>



## Selected Channel

Control	Assignment
Pan Encoder	adjusts parameter selected in the FADER MODE section
SEL	toggles channel strips' SEL buttons between track and insert selection

## Data Entry section

Control	Assignment
Parameter Wheel	Default: move SPL by one bar Scrub: scrubbing Shuttle: Shuttle mode
- (DEC)	Default: leaves Folder Goto Marker: cancels dialog
DAW ALT/FINE	Toggles Audio window
+ (INC)	enters folder of selected track

## Channel strips

Control	Assignment
Level Meters	display momentary and peak level
SEL	If AUTO off: <ul style="list-style-type: none"> <li>• FADER MODE [AUX 8] off: selects track</li> <li>• FADER MODE [AUX 8] on: selects track for insert assignment</li> </ul> If AUTO on: <ul style="list-style-type: none"> <li>• cycles automation mode. With an automation mode button held down, sets this automation mode</li> </ul>
DAW SHIFT/ADD	Sets volume to unity level
MATRIX SELECT 1	Sets volume to unity level
SOLO	toggles Solo
DAW OPTION/ALL	disables Solo for all tracks
ON	toggles Mute

Control	Assignment
DAW OPTION/ALL	unmutes all tracks
Fader	adjusts volume, or duplicates Encoder in Flip mode

## Stereo Channel strip

Control	Assignment
SEL	toggles channel strips' SEL buttons between track and insert selection

## USER DEFINED KEYS section

These keys can be assigned to the following functions:

Control	Assignment
DAW WIN STATUS	toggles the Audio Pool window
DAW REC/RDY 1 .. 16	toggles Record Ready
DAW WIN TRANSPORT	toggles the Transport window
DAW BANK-	shifts channel strips by one bank to the left
DAW BANK+	shifts channel strips by one bank to the right
DAW SHIFT/ADD	Shifts to second meaning of some buttons See also description of other buttons
DAW OPTION/ALL	While held down, value change mode is set to „full“ : relative value changes to go minimum or maximum See also description of other buttons
DAW GROUP STATUS	enters Group Edit mode: <ul style="list-style-type: none"> <li>• the upper line in the DSP edit section displays the currently edited group number and name</li> <li>• Parameter control push-switch buttons 1..4 toggle properties of the currently edited group, labelled in the lower line</li> <li>• When INSERT/PARAM is off, DSP Edit Scroll Encoder scrolls through the group properties. Otherwise it selects the currently edited group</li> <li>• the SELECT buttons toggle group membership of the track</li> </ul>

<b>Control</b>	<b>Assignment</b>
DAW SHIFT/ADD	switches to Track View
DAW SUSPEND	toggles the Group Clutch
DAW SHIFT/ADD	switches to Extended Track View
DAW CREATE GROUP	creates a new group and enters Group Edit mode (see above)
DAW SHIFT/ADD	switches to Global View
DAW WIN MIX/EDIT	toggles between the Arrange and Track Mixer windows
DAW CHANNEL -	shifts channel strips by one channel to the left
DAW CHANNEL+	shifts channel strips by one channel to the right
DAW CTRL/CLUTCH	While held down, the Group Clutch is engaged, i.e. all groups are disabled
DAW ALT/FINE	While held down, value change mode is set to „fine“ : relative value changes work with maximum resolution See also description of other buttons
DAW MONI STATUS	-
DAW UNDO	performs undo
DAW SHIFT/ADD	performs redo
DAW OPTION/ALL	opens undo history window
DAW SAVE	saves the song
DAW WIN MEM-LOC	toggles the Marker List window
DAW OPTION/ALL	Save As...: saves the song with a different name
DAW EDIT TOOL	selects the next tool. While held down, digit buttons select a specific tool
DAW WIN INSERT	toggles the Sample Editor window
DAW REC/RDY ALL	Disable Record Ready on all tracks
DAW SCRUB	toggles Scrub mode
DAW SHUTTLE	toggles Shuttle mode
DAW REW	Shuttles backward
DAW FF	Shuttles forward
DAW STOP	Stop

<b>Control</b>	<b>Assignment</b>
DAW PLAY	Play
DAW SHIFT/ADD	Pause
DAW REC	Record
DAW PRE	Sets left locator
DAW IN	Sets Drop In locator
DAW OUT	Sets Drop Out locator
DAW POST	Sets right locator
DAW RTZ	goes to the left locator
DAW END	goes to the right locator
DAW ONLINE	toggles internal/external Sync
DAW QUICK PUNCH	toggles Drop mode
DAW AUTO FADER	toggles automation playback and recording of Volume
DAW AUTO PAN	toggles automation playback and recording of Pan
DAW AUTO PLUGIN	toggles automation playback and recording of Plug-in parameters
DAW AUTO MUTE	toggles automation playback and recording of Mute
DAW AUTO SEND	toggles automation playback and recording of Send Level
DAW AUTO SEND MUTE	-
DAW AUTO WRITE	sets selected track to automation mode " Write" . While held down, channel Strip AUTO buttons set automation mode to " Write"
DAW OPTION/ALL	sets all tracks to automation mode " Write"
DAW AUTO TOUCH	sets selected track to automation mode " Touch" . While held down, channel Strip AUTO buttons set automation mode to " Touch"
DAW OPTION/ALL	sets all tracks to automation mode " Touch"
DAW AUTO LATCH	sets selected track to automation mode " Latch" . While held down, channel Strip AUTO buttons set automation mode to " Latch"
DAW OPTION/ALL	sets all tracks to automation mode " Latch"

<b>Control</b>	<b>Assignment</b>
DAW AUTO READ	sets selected track to automation mode " Read" . While held down, channel Strip AUTO buttons set automation mode to Read
DAW OPTION/ALL	sets all tracks to automation mode " Read"
DAW AUTO TRIM	-
DAW AUTO OFF	sets selected track to automation mode " Off" . While held down, channel Strip AUTO buttons set automation mode to " Off"
DAW OPTION/ALL	sets all tracks to automation mode " Off"
DAW AUTO STATUS	while held down, the Channel Strip displays display the tracks' automation mode



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