Advanced Standalone Mode for EWS MIC 2/8 (96kHz or ADAT Firmware since Version 1.13.13.31) and PHASE 88 Rack FW (since Firmware Version 1.17.13.31)

If the device is powered up without any 1394 FireWire™ connection established, is starts in the so called “Standalone Mode”.
There are two main features that can be used within this mode.

1. Standalone AD/DA Converter

The device uses default settings on startup, that are defined by the Control Panel via 1394. These settings are:
- samplerate
- signal routing
- hardware mixer settings
- Microphone Inputs (only PHASE88 Rack)

These settings are stored into the device by pushing the “store” button in the scenes dialog of the control panel. Additionally there is also a special dialog to set the “default routing”.
Here you can specify which input signals are routed to the any outputs in standalone mode. You can choose between any input signal or the digital mixer master output signal. In standalone mode, the device automatically detects any external digital clock and signal source that is connected and syncs up to this source. The sample-rate changes accordingly to the external clock connected to the device. To use S/PDIF-In or ADAT-In together with WordClock synchronization with the EWS MIC 2/8 devices, the WordClock signal always has highest priority. If no digital signal has been connected to the EWS MIC 2/8 device the internal clock generator will supply the clock. For the PHASE 88 Rack FW the WordClock input signal has to be connected before switching on the device first. Otherwise the clock will be extracted by the digital input signal (S/PDIF). Again, if no digital signal is connected to the PHASE 88 Rack FW the internal clock generator will supply the master clock.

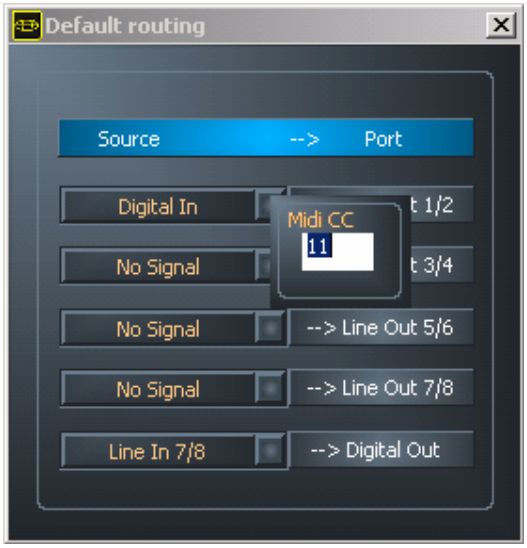
The LEDs on the backside display the sync state of the device.

Ext. Clk:	**[on]**	the device is synced to an external clock source
	[off]	the device is synced internally
Word-Clk:	**[on]**	WordClock is used as external clock source
	[off]	digital in (ADAT or S/PDIF) is used as external clock source
Sync:	**[on]**	the device has successfully synced to a clock
	[blink]	there is a problem with the sync state
IEEE-1394:	**[on]**	the device is controlled via 1394 (no standalone mode)
	[off]	the device has no established connection via 1394
	[flashing]	“MIDI Remote Mode” is active (see 2.)

2. MIDI Remote Mode

With the MIDI Remote Mode, the digital hardware mixer and the signal router can be controlled in real time with a MIDI fader box or any other MIDI controller that can send MIDI control changes and is connected to MIDI In port 2. The MIDI settings used by the device are defined by the Control Panel via 1394. The MIDI channel that is monitored by the device is specified by a combo box in the control panel.

The MIDI controller numbers are attached to the mixer faders by right clicking on them. MIDI controller numbers can only be set if there is a valid MIDI channel set.



The MIDI controller numbers for the digital signal router are defined by right clicking on the combo boxes in the default routing dialog. MIDI controller numbers can only be set if there is a valid MIDI channel set.

3. Implementation for the MIDI Remote Mode

	Controls	Controller Number	Controller Value (0-127dez / 00-7Fhex)
PHASE 88 Rack FW MIC 2/8 FW 96 kHz	Line In 1/2 Fader Line In 3/4 Fader Line In 5/6 Fader Line In 7/8 Fader Digital In 1/2 Fader Digital In 3/4 Fader* Digital In 5/6 Fader* Digital In 7/8 Fader* Master Fader *MIC with ADAT	Set by user in Control Panel (0-127dez)	00, 01 = -127dB (MUTE) 02 –> 3F(hex) = -40.0dB -> -18dB 40(hex) –> 7F(hex) = -17.7dB -> 0.0dB 00, 01 = -127dB (MUTE) 02 –> 63(dez) = -40.0dB -> -18dB 64(dez) -> 127(dez) = -17.7dB -> 0.0dB
PHASE 88 Rack FW MIC 2/8 FW 96kHz	Line Out 1/2 Source Line Out 3/4 Source Line Out 5/6 Source Line Out 7/8 Source Digital Out Source	Set by user in Control Panel (0-127dez)	0 = Digital Mixer 1 = Line In 1/2 2 = Line In 3/4 3 = Line In 5/6 4 = Line In 7/8 5 = Digital In 6 = No Signal
MIC 2/8 FW ADAT	Line Out 1/2 Source Line Out 3/4 Source Line Out 5/6 Source Line Out 7/8 Source Digital Out 1/2 Source Digital Out 3/4 Source Digita Out 5/6 Source Digital Out 7/8 Source	Set by user in Control Panel (0-127dez)	0 = Digital Mixer 1 = Line In 1/2 2 = Line In 3/4 3 = Line In 5/6 4 = Line In 7/8 5 = Digital In 1/2 6 = Digital In 3/4 7 = Digital In 5/6 8 = Digital In 7/8 9 = No Signal

Examples

1. MIDI input channel is 1, Line In 1/2 Fader controller no. is set to 10(dez):
   Set Line In 1/2 Fader to 0dB (max)
   => send MIDI control: B0(hex) – 0A(hex) – 7F(hex)

2. MIDI input channel is 16, Line In 1/2 Fader controller no. is 1:
   Set Line In 1/2 Fader to -127dB (MUTE)
   => send MIDI control: BF(hex) – 01(hex) – 00(hex)

3. MIDI input channel is 5, Line Out 5/6 controller is 20(dez):
   Route Line Out 5/6 to Digital Mixer Out
   => send MIDI control: B4(hex) – 14(hex) – 00(hex)

4. MIDI input channel is 12, Digital Out controller is 40(dez):
   Route Digital Out to Line Input 7/8
   => send MIDI control: BB(hex) – 28(hex) – 04(hex)