

HARVEY®

HARVEY mx.16

central control unit for audio,
lighting and media technology



audio

lighting

media



HARVEY®

HARVEY mx.16 is a flexible audio and media control matrix and a key component for pa systems and conference systems. It is equipped with 16 analog audio inputs and outputs as well as a great number of different control interfaces. The unit has extensive audio processing functions that can be configured in a way that is tailored precisely to the respective application. These settings can also be saved as a preset and retrieved at the press of a button so that you can change fast between different installation options. Due to the varied control interfaces HARVEY mx.16 can connect to very different devices and act as a

central control unit for audio, lighting and media technology. It converts the data between the interfaces and eliminates the need for additional converters. All established media control systems such as Crestron, iPad, AMX, and Cue are suitable for controlling HARVEY mx.16 and all of the other devices connected to it.

As such, the HARVEY mx.16 is the ideal audio and media control matrix for conference rooms, theatres, museums, home cinemas, educational facilities and multipurpose rooms.



HARDWARE

Ethernet: Connection to configuration PC as well as connection of several HARVEY units and exchange of control commands

RS232, RS485/DMX: Interfaces for remote control and exchange of control commands of HARVEY mx.16 and external devices, e.g. lighting installations, pa systems, media technology or operating panels

Voltage Inputs: 8 inputs to externally control mx.16 parameters, e.g. level

Input Contacts: 8 optocoupler inputs for switching and controlling presets and parameters, e.g. muting channels

Output Contacts: Relay outputs for the control of external devices. Contact 1 is fixed as the mx.16 fault indicator

Audio Inputs: 16 line level balanced inputs. The first 8 channels may be assigned as microphone inputs with 48V phantom power.

Audio Outputs: 16 line level outputs, e.g. for amplifiers

Cobranet: optionally available; for connecting several HARVEY units and exchanging audio data among the units

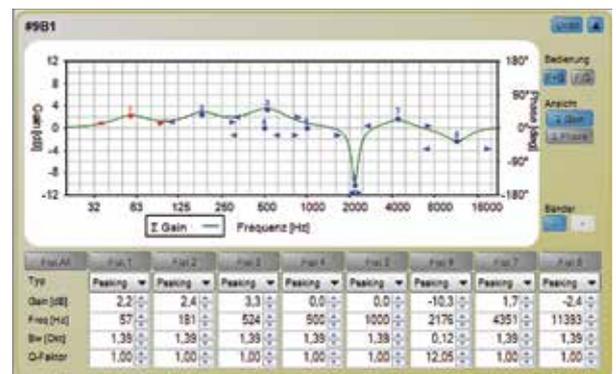
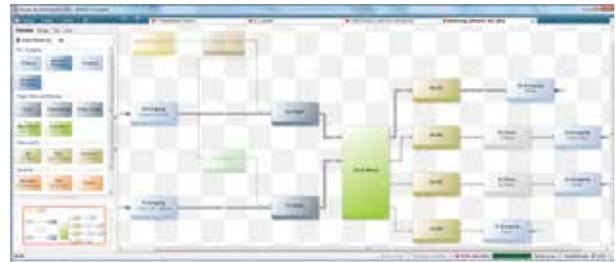
Dante: optionally available; for connecting several HARVEY units and exchanging audio data among the units

SOFTWARE

HARVEY Composer, the user interface of the HARVEY mx.16, has a very user-friendly design and allows you to configure complex projects with only a few mouse-clicks. The blocks are positioned on the worksheet using drag & drop, while an automatic query adjusts the number of channels accordingly and the elements can be wired to one another with only one movement of your mouse. When you do this, the individual connections are combined into bundles independent of the number of physical connections.

Signal processing functions such as EQ, level display or ducker and many others can be added to the installation simply per drag & drop and configured online. Mixing and switching matrixes are also available and can be parameterized freely up to a maximum number of 16x16 input/output channels.

In addition to the audio level, there is also a control level. The incoming control signals are evaluated here, linked logically and brought to the audio block control inputs. Presets allow you to switch conveniently between very different use variants. The mx.16 also has a "soft" cross-fading between the presets with a timer function.



Audio Processing:

- Level, Mixer
 - Mixing matrix
 - Mixing matrix with crosspoint delay
 - Automatic mixer
 - Level control
 - Level meter
 - Mute
 - Ducker
- Equalizer:
 - 8-Band parametric equalizer Filter (highpass, lowpass, hi-shelf, lo-shelf)

- Dynamics:
 - Compressor
 - Limiter
 - Expander
 - Noise Gate
 - Automatic Volume Control (AVC)
 - Automatic Gain Control (AGC)
- Delay:
 - Delay-up to 1000 ms
- Logic:
 - Logical operators
 - Logic to data string and data string to logic converter
 - Threshold dependent level to logic converter

HARVEY®

Audio Inputs:

8 analog Mic/Line inputs
8 analog Line inputs
24 bit Sigma-Delta A/D converter
+48 V phantom power per Mic/Line input

Audio Outputs:

16 analog outputs
24 bit Sigma-Delta D/A converter

Dante:

for audio signal network (32 In/32 Out)

Cobranet:

for audio signal network (16 In/16 Out)

Ethernet:

10/100 BaseT, RJ-45, link activity LED

RS-485:

2 RJ-45 (max. 460 kbps)

RS-232:

1 Sub-D 9-pin female (max. 460 kbps)

Contact Inputs: 8 Opto-Inputs
(activated by connection to GND)

Contact Outputs: 3 User-assignable relays,
1 Alive-Relay

Voltage Inputs:

8 inputs 0 - 10 V

Dynamic range AD/DA:

>110 dBFS (A)

THD+N AD/DA:

< 0,005%

Max. Input level:

+21 dBu, +12 dBu, +6 dBu, +3 dBu switchable

Max. Output level

+21 dBu, +12 dBu, +6 dBu, +3 dBu switchable

Mains Power:

95 to 250 VAC 50/60 Hz, Euro Connector

Dimensions:

2 RU / 483 x 88 x 382 mm

Weight:

7 kg (15.4 lbs.)

DSPECIALISTS

Digitale Audio- und Messsysteme GmbH
Helmholtzstraße 2-9L
10587 Berlin
Germany

Tel: +49 30 467 805-0

Fax: +49 30 467 805-99

sales@dspecialists.de

www.dspecialists.de



www.harvey-audio.com



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