Made in EU

PHOENIX
PROFESSIONAL-AUDIO

AMX-9-DSP4-ACD

DIGITAL AUTOMATIC PRE-AMPLIFIER

BT))) RECEIVER

Fig.: AMX-9-DSP4-ACD,
front & back

AMX-9-DSP4-ACD

Digital automatic pre-amplifier

8 UNIVERSAL INPUTS TO XLR   **DEESSER**   **PHANTOM POWER**   **MP3 PLAYER**   **10 IN & 5 OUTS**

Digital automatic pre-amplifier with 8 universal inputs to XLR (MIC.-LINE by DIP switch), USB/SD MP3 player with BT receiver, 10 input and 5 output PEQ, audio matrix, De-Esser with FULL, SPLIT, AIR functions, delays, feedback limiter and more.

The **AMX-9-DSP4-ACD automatic pre-amplifier** is especially developed for **uses in acoustically challenging buildings** (architectural acoustic). The device is used in places, where most of the other devices bring no positive results or where a complete „rack" with system components would have to be built up to achieve a reasonable acoustic result.

The 8 universal inputs are shiftable by **DIP switch** between MIC.- and LINE sensitivity. Each of the 8 universal inputs has **shiftable phantom power** and a **HPF filter** (100 Hz).

The universal inputs are equipped with shiftable **automatic microphone system (DSDF), DIGITAL SIGNAL DELAY FIELD system**. The release of all recorded microphones is carried out automatically and is controlled and supervised by the processor system (DSDF).

By the **input matrix** (DIP switch) „MAINSUM-1" and „MAIN-SUM-2" all 8 input channels can be allocated to the „MAIN-SUM-1" DSP outputs 1 to 3 and „MAINSUM-2" to the DSP outputs 1 to 3 and 4.

All settings of the matrix, the DSDF system, priority or conference programming are described in the product manual.

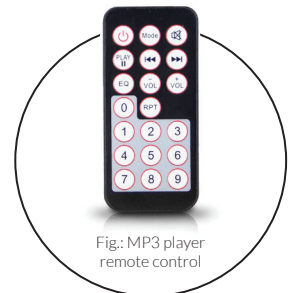**The devices are suitable as desktop version as well as for 19" installation.**
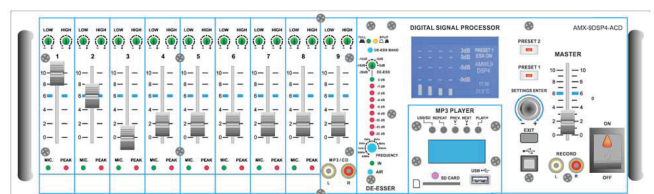
Fig.: MP3 player
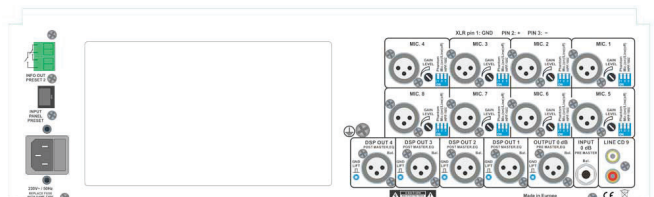remote control

Fig.: Model AMX-9-DSP4-ACD, details front

Fig.: Model AMX-9-DSP4-ACD, details back

Technical Data	AMX-9-DSP4-ACD
Ambient temperature	5 to + 40 C
Audio output	MIX OUT, POST-MASTER, PRE-MASTER, REC OUT
Audio input line	unbalanced LINE IN to RCA (input 9) or jack LINE-IN (0.1V-1.5V)
Automatic mixer	DIGITAL SIGNAL DELAY FIELD, BARRIER-GATE, GATE-OPEN-CONTROL
Automatic MODES	Yes, automatic activation preset-2, daily / weekly / monthly / yearly programs
Construction	The amplifier is suitable as desktop version as well as for 19" installation (3 U)
Colour	graphite
Conference configuration / priority	Yes, by hardware configuration (DIP switch) for inputs 1 to 8
DeEsser	FULL SPLIT and AIR function
Delay	4 x delays (OUT 1-4) and internal power amplifiers in the range of 0.0 to 249,75 mS, 84 m
Delay (system)	to 170 meter
Digital & analogue volume controls	analogue for channels 1 to 9, digital for outputs 1 to 4
Dimensions	443 mm (W) x 135 mm (H) x 340 mm (D) desktop housing, 19" installation by mounting brackets
Display	LC display
DSP version	DSP4
Installation height	3 U
Input automatic system (GATE)	Fully automatic digital system
Equalization parametric EQ	20-20kHz/-20+12dB/0.05-3db(oct)
Equalization parametric EQ @ output	4 x 5 PEQ, 20Hz-21.00Hz, +-12dB, @ 0.05oct-3.00oc
Equalization parametric EQ @ input	10 x PEG 20Hz-21.0kHz, +-12dB,@ 0.05 oct-3.00 oct
Expander compressor limiter	Shiftable for all 8 microphone inputs (setting by trimmer internally)
Feedback limiter	MODES: automatic (ADAPTABILITY) with 10 notch filters, MODES: PHASE SHIFTER with frequency 1.7Hz, 2.0Hz, 3.0 Hz
Fixing	19" mouting brackets (L/R)
Frequency response	40 Hz to 22.000 Hz@-3dB
Gain (system)	-60dB to +6dB
Gain control	For all mic.-LINE inputs, analogue at the device's rear side, digital in the device configurator
Harmonic distortion	better than 0.1 %
HPF filter	100 Hz, 6 dB/oct.
IN1/IN2 to OUT4 Matrix	yes, in the device configurator
Interface	USB-Master (PC), RJ-45 remote control
LF/HF filter (EQ)	per input@+/-12 dB, 100 Hz, 10 kHz
Limiter	SLOW/NORMAL/FAST: IN1 and IN2 signal limiter (-30dB to +6dB) in the device configurator

Line outputs (process DSP)	DSP OUT: 1 to 4 signal process out, balanced to XLR-Neutrik, 100mV-1V, 10K
Mains filter	Yes
MP3 player	With USB/SD ports and BT receiver
Noise gate [LEVEL/ATTACK/RELEASE]	-90db/-3dB(300us-5000us)(1ms-3000ms)
Password protection	Yes, in the device configurator
PEQ filter (output)	PEAKING EQ, LoSH6, LoSH12, HiSH6, HiSH12
PEQ filter (input)	PEAKING EQ, LoSH6, LoSH12, HiSH6, HiSH12
Phantom power feed	Shiftable 24VDC (DIP switch)
Presets	Preset-1, Preset-2 with clear text
Priority input (MIC/LINE)	Yes
REC-OUT	Yes
Remote control	Option: PV-DSP4F, presets remote activation
Signal contacts	Yes
Software version	EASY MANAGER 2.0
Time synchronization	No, settings are done in the device configurator (RTC)
Tone control inputs	LOW 100Hz, HIGH 10kHz, +-12dB (Q-filter)
Unweighted signal-to-noise ratio	Better than 90dB@, software NOISE GATE setting
Voltage supply	230VAC / 50Hz / 60Hz
Weight	approx. 4 kg

MEX-1 series & MPL 2
The microphone signal is transmitted through all speaker systems without woofer.
Better speech intelligibility.

K4-40F
Sound reinforcement of the gallery.
DSP-OUT-2 Equalization with additional amplifier, e.g. WM-200DT

Music source
Transmission through all speaker systems and woofer.
Better music reproduction.

DAS-1000
Active SUB Bass DSP
Reproduction of the music signal without microphone signal (speech).
DSP-OUT-4 Equalization.
Better speech intelligibility.

DIGIVOICE-110.8DSP
Beam steering system
Main sound reinforcement, e.g. church nave.
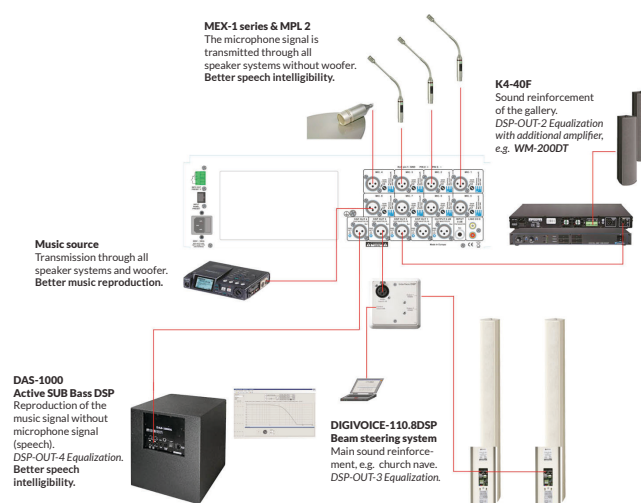*DSP-OUT-3 Equalization.*

Fig.: Model AMX-9-DSP4-ACD system configuration for speech and music transmission (system with active subwoofer and DIGIVOICE DSP beam steering line arrays)

Specials

- **Input audio matrix „MAINSUM-1" and „MAINSUM-2"**
- **COMPRESSOR EXPANDER function**
- **DeEsser with FULL, SPLIT, AIR functions**
- **MP3 player with BT receiver**
- **8 inputs to XLR (MIC.-LINE by DIP switch)**
- **LINE input (LINE-9 IN) to Cinch**
- **8 x input GAIN control**
- **10 input parametric EQ**
- **2 PRESETS**
- **Digital NOISE GATE and LIMITER (software)**
- **CROSSOVER (an allocation of the inputs 1 to 7 to output 4, or inputs 8 to 9 to output 4)**
- **Calendar function (automatic shift to PRESETS-2)**
- **RS 485 REMOTE interface for cable remote control, manual shift between the presets**
- **4 x 5 output parametric EQ, 4 delays, 4 volume controls and automatic feedback limiter (sum)**
- **4 DSP outputs, the output No. 4 can be configured as X-over SUB output**
- **PRE-MASTER EQ output (balanced to XLR)**
- **4 x POST-MASTER outputs DSP (balanced to XLR)**
- **PRE-MASTER input (balanced to 3-poled jack)**
- **Connection for cable remote control INPUT PANEL PRESET (RJ 45)**
- **INFO OUT PRESET 2 (control with 2 x make contact) for f.i. connection of additional speaker lines at PRESET 2**
- **Output RECORD for recording devices**
- **System software EASY-MANAGER 2.0**

All these setting possibilities provide a **precise room equalization** and best adaption to the room acoustics.

Besides this, the mixing amplifiers have an **additional speaker line with separate volume control and SOFT START** adjustable in the system (standard setting 5 sec.).
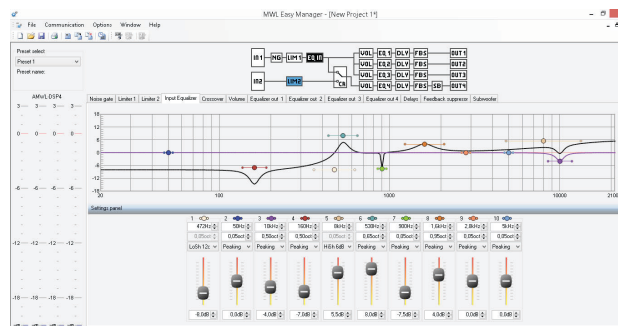

Fig.: Model AMX-9DSP4-ACD system software / screenshot input equalizer

Further details –
Product descriptions

AMX-9-DSP4-ACD >>

ONLINESHOP *links:*

AMX-9-DSP4-ACD >>

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