

HMA120

MIXING AMPLIFIERS

Self-Powered Media Mixer



PRODUCT OVERVIEW

HMA120 is a self-powered mixer including an integrated media player and 5 external audio inputs: 3 x LINE ST, 1 MIC/LINE and 1 MIC. It features a 120W powered output that supports both low (4 Ω) and high impedance (70V, 100V) loudspeaker lines. It also includes a 2 level priority system (paging, emergencies, etc.), auto stand-by mode, AUX OUT and an additional remote control port to manage the source selection and output volume by means of WPa series wall panels. HMA120 is the perfect integral solution for user-friendly and budget audio projects.

KEY FEATURES

- 2 balanced microphone input mixable with the selected music program (MIC1 and MIC2/LINE ST inputs)
- 3 line inputs for music sources
- Integrated audio player (supporting mp3 format) with USB and SD CARD slots for media storage devices
- Music program selector on the front panel: LINE1, LINE2, LINE3, MEDIA (integrated player)
- Noise gate and two-level priority system (Talkover 1 and Talkover 2) for MIC1 and MIC2/LINE inputs
- Independent level controls on the front panel for MIC1, MIC2/LINE and MUSIC signals
- 2-band EQ (BASS/TREBLE) for MIC1 and MIC2/LINE and 2-band EQ for program MUSIC signal
- REMOTE port for connecting WPa series wall panels, 0 - 10VDC (source selection and volume)
- MUTE port to remotely mute the unit from an external device, via dry contact closure
- Auxiliary Output
- Auto Stand-by function

APPLICATIONS

- Retail stores, restaurants and bars
- BGM & Paging solutions, with message priorities and source/volume independent selection

TECHNICAL SPECIFICATIONS

HMA120

Power output (4 Ω, 8 Ω, 70V & 100V steps)	
@ 1% THD	110 WRMS @ 4Ω 84 WRMS @ 8Ω 110 WRMS @ 70V @ 41Ω 110 WRMS @ 100V @ 85Ω
PEAK	140 WRMS @ 4Ω 105 WRMS @ 8Ω 140 WRMS @ 70V @ 41Ω 140 WRMS @ 100V @ 85Ω
Frequency response	
High pass filter 3 rd order Butterworth	70Hz - 17kHz (-3dB/4Ω)
THD + Noise @ 1 kHz Full power	70Hz
Channel crosstalk @ 1kHz	<0.2%
AUX Output (L+R)	
Output Level / Minimum Load	>70dB (Inputs shorted)
Frequency response	-6dBV / 10kΩ
LINE Inputs	
Sensitivity / Nominal impedance	15Hz - 40kHz (-1dB)
LINE 1-2	0dBV/>70kΩ
LINE 3	-6dBV/>70kΩ
Signal Noise Ratio	>87dB
MIC Inputs	
Sensitivity / Nominal impedance	
MIC 1-2 (BAL)	-20 to -50dBV / >4.5KΩ
LINE* (BAL)	4.5kΩ
CMRR @ MIC 1-2 (BAL)	>70dB @ 1kHz
Signal Noise Ratio	>60dB
Talkover (MIC1 & MIC2)	
ATTACK TIME	50 ms
RELEASE TIME	2 s
DEPTH	30dB
THRESHOLD	-30dB below max
Noise Gate (MIC1 & MIC2)	
ATTACK TIME	15 ms
HOLD TIME	2 s
RELEASE TIME	60 s
DEPTH	30dB
THRESHOLD	-30dB below max
Tone control (LINE & MIC)	
BASS	100Hz ±10dB
TREBLE	6kHz ±10dB
Remote	
Type	WPaVOL-SR
Volume (Analog control)	0-10V (0V max volume)
Input Selection (Analog control)	OFF-1-2-3-4

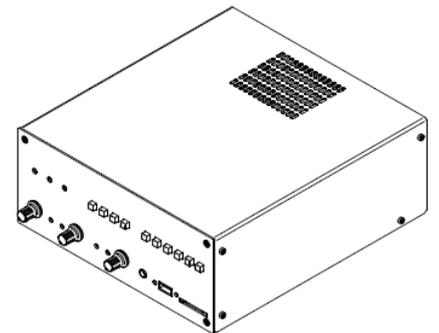
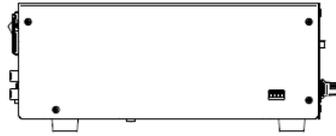
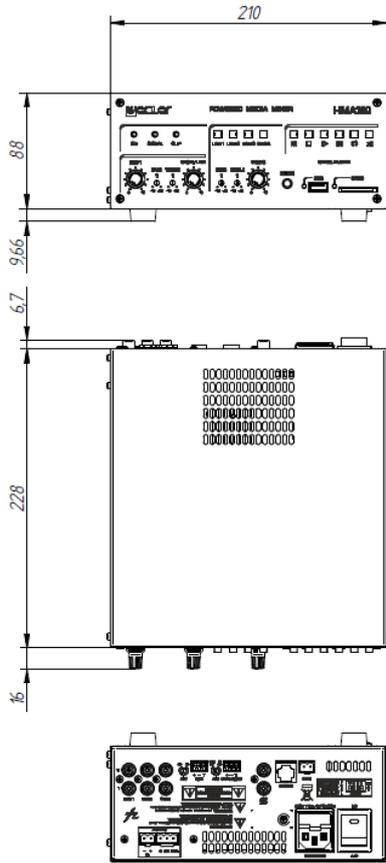
Mute	
Configuration	Normally open
Indicators	
Signal Present (Trigger level)	-35 dB
Clip	
Powers On	
Auto Standby (Trigger time)	after 2 minutes without input signal
Supply	
Mains voltage	115V/230V. Voltage changed internally (NOT BY SWITCH)
Power consumption	
pink noise, 1/8 power @ 4ohm	43 VA / 29W
pink noise, 1/3 power @ 4ohm	90 VA / 65W
Maximum power @ 4ohm	213 VA / 168W
Standby	5W
Dimensions	
Dimensions (WxHxD)	210x88x230 mm / 8.27 x 3.46 x 9.06 in.
Weight	5.95 kg / 13.12 lb
Shipping Dimensions	370 x 118 x 340 mm / 14.57 x 4.65 x 13.39 in.
Shipping Weight	7.16 kg / 15.79 lb
Media Player	
Inputs Sensitivity	-5dBV
Audio DAC	16 bit
S/N Ratio	96 dB
Dynamic range	90 dB
THD	0.02%
USB and SD card interfaces	
USB host interface	USB 2.0 Full Speed (12Mbps)
	Supports mass storage class devices
SD Card interface	Supports FAT16, FAT32 and VFAT
	Multi-partion up to 1
	65354 playable folders
	65354 playable folders within each folder
	65354 playable files within each folder
Folder hierarchy	up to 8 containing the root directory
Playable extensions	.mp3, .mp2, .mp1
Sorting in alphabetical order (UNICODE)	up to 100 folders
	up to 100 files by folder
	(folders/files over 100 sorted in the FAT order)
MP3 decoder	
Supported MPEG	1, 2 and 2.5
Supported layerd	1, 2 and 3
Sample rates	8k, 16k and 32k
	11.025k, 220.05k and 44.1k
	12k, 24k and 48k
Bit rate	8 to 320 kpps and Variable bit rate (VBR)

*Internally selectable

MECHANICAL DIAGRAM



Ecler HMA120 Mechanical Diagram



All the measurements are in mm

61-1057-0100

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All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in [Support / Technical requests](#).

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