

# 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  $\Omega$ ) 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

## CERTIFICATIONS

- EN60065:2014
- EN55103-1:2009
- EN55103-2:2009
- 2006/95/EC
- 2004/108/CE

TECHNICAL SPECIFICATIONS

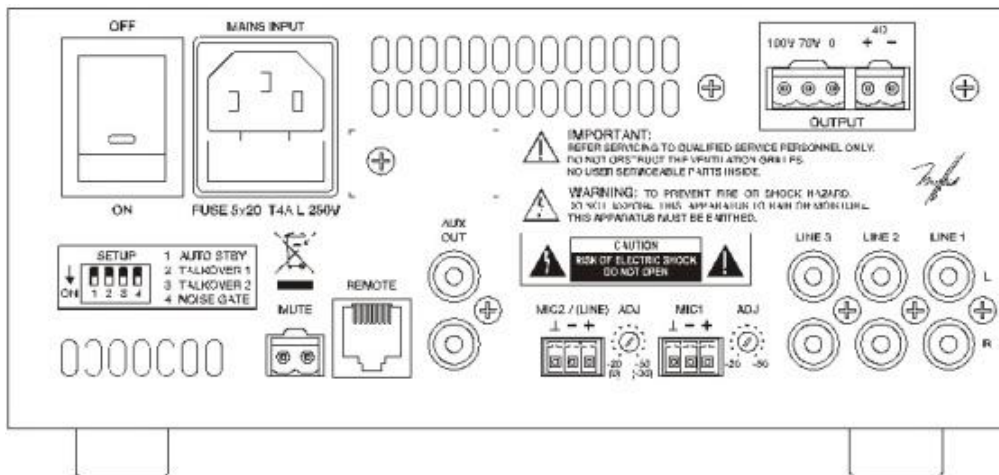
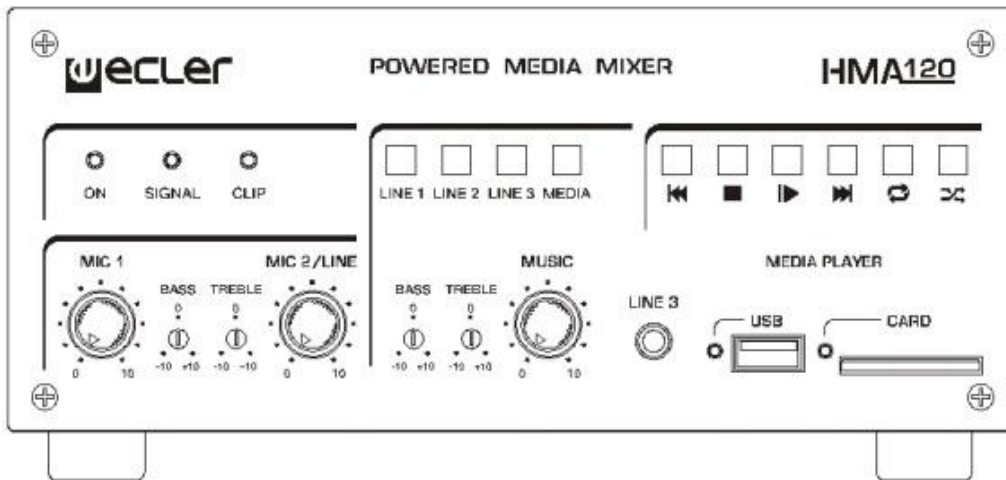
HMA120

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	
	70Hz - 17kHz (-3dB/4Ω)
High pass filter 3 <sup>rd</sup> order Butterworth	
	70Hz
THD + Noise @ 1 kHz Full power	
	<0.2%
Channel crosstalk @ 1kHz	
	>70dB (Inputs shorted)
AUX Output (L+R)	
Output Level / Minimum Load	-6dBV / 10kΩ
Frequency response	15Hz - 40kHz (-1dB)
LINE Inputs	
Sensitivity / Nominal impedance	
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	Panel WxDxH	210x230x88mm
	Weight (Net)	5950g
	Weight (Gross)	7160g
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-partition 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



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.

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