

HMA120

MIXING AMPLIFIERS

Self-Powered Media Mixer



PRODUCT OVERVIEW

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 WPM 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 WPM 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

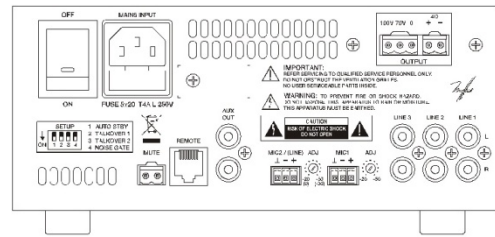
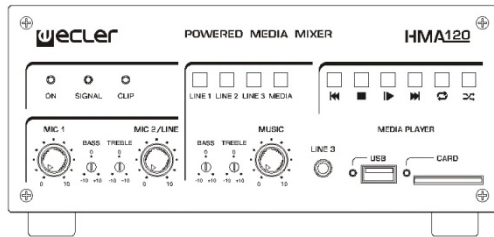
APPLICATIONS

- 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

MECHANICAL DIAGRAMS



TECHNICAL DATA

Power output (4Ω, 8Ω, 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 rd 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
Phantom voltage/current	+15VDC / 8mA max.*
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	WPmVOL-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	
Power On	
Auto Standby (Trigger time)	after 2 minutes without input signal

Supply		
Mains voltage	See characteristics in the back of the unit	
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

