

CA120HZ

COMPACT AMPLIFIERS

AV Integration Micro-Amplifier



PRODUCT OVERVIEW

CA120HZ is the high impedance version of the CA120, delivering 120W @ 70/100V line level, a technology which is especially suitable for long loudspeaker wire runs and/or an amount of loudspeaker units far beyond the 2 or 4 units typically connected to a low impedance amplifier. Under its tiny size, it features an amazing set of remote control features: serial RS-232 port, IR receiver and 0-10 VDC remote port. It's an ideal solution in those audiovisual applications which require integration with external control devices: education classrooms, meeting rooms, multimedia presentations, retail shops, etc.

KEY FEATURES

- 1 x 120 W RMS @ 70/100V amplifier
- Universal external power supply
- AUTO STANDBY function: in the absence of an audio signal the unit automatically goes into STANDBY mode, minimising power consumption
- Lightweight, silent, high-performance amplifier (fan-free convection cooling)
- 1 switchable balanced mic / unbalanced line input, with high quality microphone preamplifier, phantom power supply, noise gate and “talkover” function or priority over the rest of input
- 2 stereo lines (unbalanced)
- 2-band independent tone control (Bass, Treble) for the microphone / line 3 and line 1&2 input connection.
- Auxiliary output for liaison with other amplifiers or external audio devices
- Local control by digital rotary knob (“encoder”)
- Remote control by infrared remote control
- Remote control by WPaVOL or WPaVOL-SR (0-10 VDC) wall panel
- RS-232 control port, compatible with EclerCOMM software (free) and control protocol CA-NET
- MUTE port to silence the entire unit by closing external contact

APPLICATIONS

- Classrooms
- Meeting rooms
- Multimedia presentations (in combination with video projectors, screens, etc.)
- Retail shops
- Museums and exhibitions
- Integrated AV systems with central remote control system (Crestron®, Extron®, AMX®, etc.)

TECHNICAL SPECIFICATIONS

CA120HZ

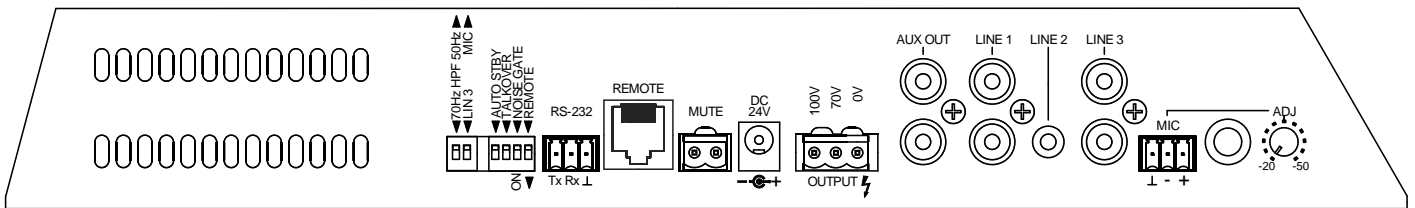
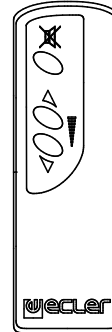
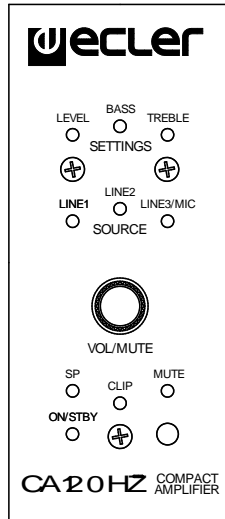
Power	
STEREO	-
MONO	96W @ 100Ω 1% THD
BRIDGE	-
Frequency response	50Hz - 30kHz (-3dB)
THD+Noise @ 1kHz Full Pwr. SPKR OUT	<0.09%
THD+Noise AUX OUT	< 0.02%
Channel crosstalk @ 1kHz	>65dB
Inputs Sensitivity nom/Impedance:	
LINE 1	0dBV (-6dBV*)/>8kΩ
LINE 2	0dBV (-6dBV*)/>8kΩ
LINE 3	0dBV (-6dBV*)/>8kΩ

	MIC (BAL)	-20 to -50dBV/>1k Ω
CMRR		
	MICRO (BAL)	>65dB @ 1kHz
High Pass Filter		
		50Hz - 70Hz
Outputs Level/Minimum Load		
	AUX OUT	>-6dBV/10k Ω
Tone control (LINE & MIC)		
	BASS	100Hz \pm 10dB
	TREBLE	6KHz \pm 10dB
Signal Noise Ratio		
	LINE	>70dB
	MIC (BAL)	>50dB
Talkover		
	TIME	2 Sec.**
	DEPTH	-30dB**
	Microphone Noise Gate	20-30dB below max.**
	Phantom voltage	+24VDC/10mA max.*
RS232		
	BAUD RATE	9600 (fixed)
	DATA	8 bits
	PARITY	NONE
	STOP BITS	1
	FLOW CTRL	NONE
Analogue remote (0-10V. based)		Volume & Input/preset** selection
Infrared remote		Volume & Mute
Mains (using Meanwell GS60A24-P1J)		100-240VAC 50/60Hz + External PSU 24VDC
Power consumption		
	pink noise, 1/8 power	33VA / 24W
	pink noise, 1/3 power	58VA / 52W
	Stand By (time 2 minutes)	<2.5W
General		
	Dimensions	160x325x48mm
	WxDxH	
	Weight	2,92Kg

*Internally selectable

**Software 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.

For technical requests address to your supplier, distributor or fill the contact form in our website, at [Support / Technical Request](#).

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