

CP-8 Surround Preamplifier / Processor Specifications

Input Signal Processing:

	Digital Input ¹ 2-ch DSD	Digital Input ¹ 8-ch DSD	Analog Input ²	Analog Pass-Through
Frequency Response	10Hz-100kHz	4Hz-100kHz	10Hz-100kHz	4Hz-100kHz
S/N Ratio @ full output	> 113dB	> 107dB	> 103dB	> 104dB
Dynamic Range	> 113dB	> 107dB	> 103dB	> 107dB
THD	< 0.003%	< 0.002%	< 0.05%	< 0.005%
Channel Separation	> 109dB	> 103dB	> 99dB	> 112dB

Note 1: EIAJ, A-weighted, $f_s = 24\text{-bit}/192\text{kHz}$

Note 2: EIAJ, A-weighted, $f_s = 24\text{-bit}/96\text{kHz}$

Preamplifier - Audio Section:

Measured Performance	
Maximum Overall Gain	10dB
Volume adjustment	0.5dB increments
THD (20Hz - 20kHz)	< 0.005%
Frequency response	20Hz - 20kHz $\pm 0.25\text{dB}$
Signal-to-noise Ratio	102dB @ full output
Analog input impedance	47k Ω
Analog input sensitivity	200mV - 3.0V rms
Analog output impedance (RCA / XLR)	50 Ω / 100 Ω
Analog output voltage (RCA / XLR)	5 Volts RMS / 10 Volts RMS
Digital Input - S/PDIF	75 Ω @ 0.4Vp-p
Digital Input/Output - Optical Toslink	660nm wavelength

Analog Input Connections

7.1 Channel (w/corresponding video input)	1 x Single-ended (RCA)
2 Channel (w/corresponding video inputs)	6 x Single-ended (RCA)
Auxiliary (w/corresponding video input)	1 x Balanced pair (XLR)
CD (audio only)	1 x Single-ended pair (RCA)
Phono (audio only)	1 x Single-ended pair (RCA)

Digital Input Connections

Optical	3 x TosLink
S/PDIF coaxial	3 x RCA

Analog Output Connections

7.1 Channel (includes 2 subwoofer outputs)	1 x Balanced (XLR)
7.1 Channel (includes 2 subwoofer outputs)	1 x Single-ended (RCA)
2 Channel - Zone 2 (Preamplifier out)	1 single-ended pair (RCA)

Digital Output Connections

Optical	1 x TosLink
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Preamplifier - Video Section:**Composite**

Number of inputs	6
Number of outputs	4 (includes 1 for zone 2)
Level / Impedance	1Vp-p / 75 Ω
Bandwidth	5Hz - 10MHz +0/-3dB

S-Video

Number of inputs	6
Number of outputs	3
Y signal - level / impedance	1.0Vp-p / 75 Ω
C signal - level / impedance	0.286Vp-p / 75 Ω
Bandwidth	5Hz - 10MHz +0/-3dB

Component

Number of inputs	3
Number of outputs	1
Y signal - level / impedance	1.0Vp-p / 75 Ω
PB/CB signal - level / impedance	0.7Vp-p / 75 Ω
PR/CR signal - level / impedance	0.7Vp-p / 75 Ω
Bandwidth	5Hz - 100MHz +0/-3dB

HDMI 1.3a

Number of inputs	4
Number of outputs	1
Bandwidth	5Hz - 340MHz +0/-3dB

Preamplifier - Phono Section:

Input sensitivity	2.5mV
Frequency Response	20Hz - 20kHz (± 0.5 dB)
Signal-to-noise Ratio	74dB
Rated output	150mV
THD @ 1kHz	0.03%

Tuner Section:

FM Frequency tuning range	87.5MHz - 107.9MHz
AM Frequency tuning range	520kHz - 1720kHz
FM - Usable sensitivity	1.0 μ V @ 11.2dBf
AM - Usable sensitivity	18 μ V
50dB quieting sensitivity (stereo / mono)	23 μ V @ 38.5dBf / 1.6 μ V @ 15.3dBf
Signal-to-noise Ratio (stereo / mono)	72dB / 77dB
THD @ 1kHz (stereo / mono)	0.3% / 0.15%

Miscellaneous Information:

Available Faceplate Finishes	Black and Silver
Remote Controls	Full-Function & Basic Function
Display Type	VFD (Vacuum Fluorescent Display)
Power Consumption	30 Watts
AC Power Requirements	120V / 60Hz 240V / 50Hz
Fuse Replacement - 120V	4.0A short fast blow
Fuse Replacement - 230V	2.0A short fast blow
Warranty (USA & Canada)	5 Years - transferable
Shipping weight	47 lbs / 21 Kg
Dimensions (W x H x D)	17.4 x 7.75 x 17.34 in. (44.2 x 19.7 x 44.0 cm.)

Features & specifications are subject to change without notice.