



Digital AV Mixer

AG-HMX100

Compact, all-in-one, digital AV mixer with a built-in HD/SD multi-format

Key Features

HD/SD multi video format compatibility

Digital interfaces of SDI (HD/SD) input/output and HDMI (HD) input

Supports switching of 3D images



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<https://eu.connect.panasonic.com/se/en/products/broadcast-proav/ag-hmx100>

Power Source	100 V \bar{N} 240 V AC, 50 Hz/60 Hz
Power Consumption	60 W
Operating Temperature	5 \bar{C} to 40 \bar{C} (41 \bar{F} to 104 \bar{F})
Operating Humidity	10 % to 80 % (no condensation)
Storage Temperature	\bar{D} 20 \bar{C} to 60 \bar{C} (\bar{D} 4 \bar{F} to 140 \bar{F})
Storage Humidity	10 % to 80 % (no condensation)
Weight	7.9 kg (17.4 lbs)
Dimensions	424 mm (W) x 197 mm (H) x 400 mm (D) 16-3/4 inches (W) x 7-3/4 inches (H) x 15-3/4 inches (D)
Signal Processing	4:2:2:4, 12 bit Internal process
Sampling Frequency	48 kHz
Quantization	16 bit for HDMI Input, 24 bit for SDI Input, 20 bit for analog input
Frequency Response	\bar{D} 1.0 dB/1.0 dB at 20 Hz to 20 kHz (digital) \bar{D} 1.0 dB/1.0 dB at 20 Hz to 20 kHz (analog)
Dynamic Range	More than 90 dB at 1 kHz (digital), More than 85 dB at 1 kHz (analog)
THD	Less than 0.05 % at 1 kHz (digital), Less than 0.08 % at 1 kHz (analog)
Cross Talk	Less than \bar{D} 80 dB at 1 kHz, between any two channels (digital) Less than \bar{D} 70 dB at 1 kHz, between any two channels (analog)
Headroom	20 dB and 18 dB switchable
Analog Composite Input Video In	BNC x 2 sets, 1.0 V [p-p], 75 \bar{O} termination
SDI Input	BNC x 4 sets SD serial digital signal: SMPTE259M-C/272M-A and ITU-R BT.656-4 standards HD serial digital signal: SMPTE292M/296M/299M standards
HDMI Input	HDMI connector x 2 sets (Type A connector), incompatible with HDCP Link and VIERA Link
DVI-I Input	TMDS single link (incompatible with HDCP), compatible with digital/analog RGB
Reference Input	BNC x 2 (with loop-through), 1.0 V [p-p], 75 \bar{O} auto termination Composite signal (NTSC/PAL)
Program (PGM) Output	SDI (BNC) x 1 SD serial digital signal: SMPTE259M-C/272M-A and ITU-R BT.656-4 standards HD serial digital signal: SMPTE292M/296M/299M standards DVI-D x 1, TMDS single link (incompatible with HDCP)
Preview (PVW) Output	SDI (BNC) x 1 SD serial digital signal: SMPTE259M-C/272M-A and ITU-R BT.656-4 standards HD serial digital signal: SMPTE292M/296M/299M standards
AUX Output	Pin jack x 1 (L and R), -10 dBv, High impedance, unbalanced
Multi View Output	SDI (BNC) x 1 SD serial digital signal: SMPTE259M-C and ITU-R BT.656-4 standards HD serial digital signal: SMPTE292M/296M standards DVI-D x 1, TMDS single link (incompatible with HDCP)
Audio Input (Audio In)	XLR: 4 sets (L and R), 4/0/ \bar{D} 3 dBm switchable, balanced, 10 k \bar{O} SDI (BNC) (Embedded Audio): 4 sets SD serial digital signal: SMPTE259M-C/272M-A and ITU-R BT.656-4 standards HD serial digital signal: SMPTE292M/296M/299M standards HDMI (Embedded Audio): connector x 2 sets (Type A connector), incompatible with HDCP and VIERA Link
AUX Input	Pin jack x 1 (L and R), \bar{D} 10 dBv, High impedance, unbalanced
Microphone Input (MIC)	M6 x 1, \bar{D} 60 dBv, 2 k \bar{O} , monaural, unbalanced
Audio Output (Audio Out) Program (PGM) Output	XLR x 1 (L and R), 4/0/ \bar{D} 3 dBu switchable, Low impedance, balanced
Headphones Output Phones	M6 x 1, 8 \bar{O} , stereo, unbalanced, \bar{D} \bar{O} dBu to \bar{D} 20 dBu
Tally	D-sub 9 pin, Open-Collector x 8 CH Maximum Current: Less than 50 mA, Maximum Voltage: 35 VDC
RS-232C	D-sub 9 pin x 1
System Format*	HD: 1080/23.98PsF (for 3D only) 1080/59.94i, 1080/50i, 720/59.94p, 720/50p SD: 480/59.94i, 576/50i *Mixed operation of different video formats (1080i/720p, HD/SD and 50Hz/59.94Hz) is not possible.
Advanced Reference Output (ADV-REF)	BNC x 1, 75 \bar{O} Composite signal Sync: 0.286 V [p-p] (NTSC) /0.3 V [p-p] (PAL) Burst: 0.286 V [p-p] (NTSC) /0.3 V [p-p] (PAL)
Audio Output (Audio Out) Program (PGM) Output	XLR x 1 (L and R), 4/0/ \bar{D} 3 dBu switchable, Low impedance, balanced SDI (BNC) (Embedded Audio) x 1 SD serial digital signal: SMPTE259M-C/272M-A and ITU-R BT.656-4 standards HD serial digital signal: SMPTE292M/296M/299M standards Pin jack x 1 (L and R), \bar{D} 10 dBv, Low impedance, unbalanced
GPI	BNC x 1, Make-Contact