CONNECT

Live video direction in environments where time is of the essence.4K compatible Live Switcher

AV-HS7300

Key Features

Maximum of 72 inputs*1 and 42 outputs*2 to easily handle large-scale video production
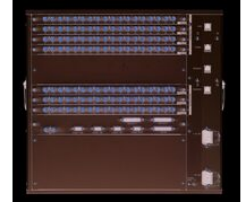
4K video format support*3 with 4 x 3G-SDI

8ch (stills and clips, 4ch each) video memory for support of various video production

All inputs equipped with frame synchronizer, color corrector and frame delay

Compact 9 RU mainframe equipped with redundant power supply *1: SDI input extension rear board (AV-HS70M1, sold separately) required. *3: ME extension video processing board required (AV-HS70M4, sold separately).*2: SDI output extension rear board (AV-

4K
PROFESSIONAL

AV-HS7300

https://eu.connect.panasonic.com/dk/en/broadcast-proav/av-hs7300

Mainframe -> Model No.	AV-HS73U2
Mainframe -> General -> Power Supply	AC 100 V to 240 V, 50 Hz/60 Hz
Mainframe -> General -> Power Consumption	460 W
Mainframe -> General -> Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Mainframe -> General -> Operating Humidity	10 % to 90 % (no condensation)
Mainframe -> General -> Weight	Approx. 37 kg (when full option is installed, excluding accessories)
Mainframe -> General -> Dimensions	W 482 mm x H 399 mm x D 420 mm (excluding protrusions), 9RU
Mainframe -> Video Terminal -> SDI IN	During Standard mode Standard 36 lines • Connector: BNC x 36 Maximum 72 lines • Connector: BNC x 72 HD-SDI HD serial digital, SMPTE292M (BTA S-004) standard compliant • 0.8 V [p-p] ± 10 % (75 Ω) • Automatic equalizer 100 m (when 1.5 Gbps/5C-FB cable is used) 3G-SDI 3G serial digital, SMPTE424M standard compliant • 0.8 V [p-p] ± 10 % (75 Ω) • Automatic equalizer 100 m (when 3 Gbps/5C-FB cable is used) • 3G-SDI Level A, 3G-SDI Level B During 4K mode Standard 9 lines • Connector: BNC x 36 (construct one line of 4K signal with four terminals) Maximum 18 lines • Connector: BNC x 72 (construct one line of 4K signal with four terminals) • Can use the 4K signal in SQD format

Mainframe -> Video Terminal -> SDI OUT	During Standard mode
	Standard 14 lines (to : Two distribute output,
	to : One distribute output)
	• Connector: BNC x 18
	Maximum 42 lines (to , to , to :
	Two distribute output, other: One distribute output)
	• Connector: BNC x 54
	• ME1PGM, ME1PVW, ME1CLN, ME1KEYPVW, ME2PGM, ME2PVW, ME2CLN, ME2KEYPVW, ME3PGM, ME3PVW, ME3CLN, ME3KEYPVW, ME4PGM, ME4PVW, ME4CLN, ME4KEYPVW, DSKPGM1, DSKPGM2, DSKPVW1, DSKPVW2, DSK1CLN, DSK2CLN, DSK3CLN, DSK4CLN, SEL KEYPVW, MV1 to MV4, AUX1 to AUX24 can be assigned
	HD-SDI HD serial digital, SMPTE292M (BTA S-004) standard compliant
	• Output level: 0.8 V [p-p] ± 10 %
	• Rise time: Less than 270 ps (HD)
	• Fall time: Less than 270 ps (HD)
	• Difference between rise time and fall time: 100 ps or less (HD)
	• Alignment jitter: 0.2 UI (130 ps) or less (HD)
	• Timing jitter: 1.0 UI or less (HD)
	• Eye aperture ratio: 90 % or more • DC offset: 0 ± 0.5 V
	3G-SDI 3G serial digital, SMPTE424M standard compliant
	• Output level: 0.8 V [p-p] ± 10 %
	• Rise time: 135 ps or less
	• Fall time: 135 ps or less
	• Difference between rise time and fall time: 50 ps or less
	• Alignment jitter: 0.3 UI or less
	• Timing jitter: 2.0 UI or less
	• DC offset: 0 ± 0.5 V
	• 3G-SDI Level B
	During 4K mode
	Standard 3 lines (construct one line of 4K signal with four terminals)
	• to : One line x two distribute output,
	to : Two lines x one distribute output
	Maximum 9 lines (construct one line of 4K signal with four terminals)
	• to : One line x two distribute output,
	to : Two lines x one distribute output
	• to : One line x two distribute output,
	to : Two lines x one distribute output
	• to : One line x two distribute output,
	to : Two lines x one distribute output
	• The 4K signal in SQD format can be used.
	• ME1PGM, ME1PVW, ME1CLN, ME1KEYPVW, ME2PGM, ME2PVW, ME2CLN, ME2KEYPVW, DSKPGM1, DSKPGM2, DSKPVW1, DSKPVW2, DSK1CLN, DSK2CLN, SEL KEYPVW, MV1, and AUX1 to AUX6 can be assigned
Mainframe -> Video Terminal -> Video Format	1080/59.94p, 1080/59.94i, 1080/50p, 1080/50i, 1080/29.97PsF, 1080/25PsF, 1080/23.98PsF, 2160/59.94p, 2160/50p
Mainframe -> Video Terminal -> Signal Processing	[Y:PB:PR] 4:2:2 10 bit
	[R:G:B] 4:4:4 8 bit
Mainframe -> Video Terminal -> ME Number	4ME (Standard Mode) / 1.5ME (4K Mode)
Mainframe -> Synchronous Terminal -> REF Terminal	In Genlock mode: Black burst or Tri-level Sync input signals (with loop-through)
	• If the loop-through output is not used, provide a 75 Ω termination.
	• Connector: BNC • Same field frequencies as those of the system formats supported
	• Only the Genlock mode is supported for 1080/23.98PsF format
	• In the 1080/23.98PsF format, black burst signals with 10 Field ID (SMPTE318M standard compliant) or Tri-level Sync signals supported

Mainframe -> Synchronous Terminal -> Video Delay Time	During Standard mode
	1 line (H): When the frame synchronizer is set to [Off]
	2 field (V): When the frame synchronizer is set to [On]
	• Maximum delay of 1 frame is added when passing through PinP, DVE, MultiView, or DVI-IN.
Mainframe -> Control Terminal -> LAN Terminal	Compatible with 100BASE-TX and AUTO-MDIX (For IP control)
	• Connection cable: LAN cable (CAT5e), max. 100 m, STP (Shielded Twisted Pair) cable recommended
	• Connector: RJ-45
Mainframe -> Control Terminal -> PANEL Terminal	Compatible with 100BASE-TX and AUTO-MDIX (For Control Panel AV-HS60C2/AV-HS60C4 connection)
	• Connection cable (supplied with AV-HS60C2/AV-HS60C4):
	LAN cable (CAT5e), straight cable, STP (Shielded Twisted Pair), 10 m
	• Connector: RJ-45
Mainframe -> Control Terminal -> COM1 (M) / COM2(M) / COM3 (M) Terminals	RS-422 control terminal
	For master connection for controlling external devices
	• Connector: D-sub 9-pin (female) x 3, inch screw
Mainframe -> Control Terminal -> COM4 (M/S) Terminal	RS-422 control terminal
	For master/slave connection for controlling external devices
	• Connector: D-sub 9-pin (female), inch screw
	• Switchable between master connection and slave connection by the menu
Mainframe -> Control Terminal -> GPI IN Terminal	GPI IN: 18 inputs, general-purpose, photocoupler sensing
	ALARM OUT: 1 output, open collector output (negative logic)
	• Connector: D-sub 25-pin (female), inch screw
Mainframe -> Control Terminal -> GPI OUT1 / GPI OUT2 terminal	GPI OUT: 48 outputs, selected from general purpose, tally
	Open collector output
	• Connector: D-sub 25-pin (female) x 2, inch screw