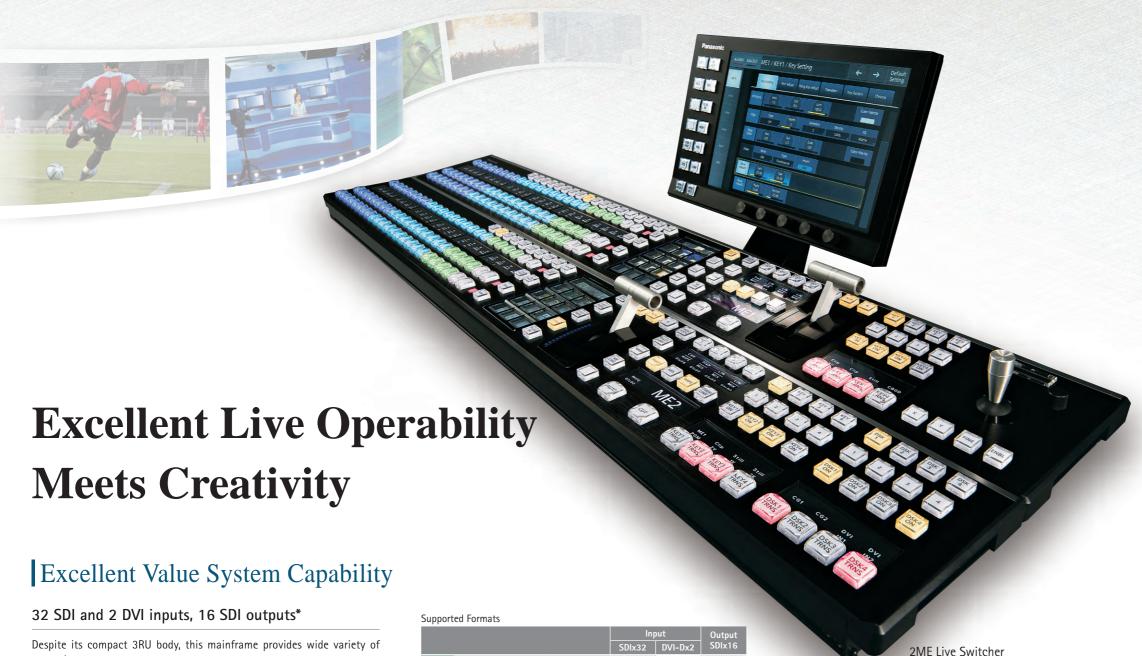
Panasonic BUSINESS

AV-HS6000 2ME Live Switcher





2ME Live Switcher with wide system adaptability and intuitive operability provides high reliability.



Despite its compact 3RU body, this mainframe provides wide variety of inputs/outputs with frame synchronizer, format converter, and color correctors.

Colors can be adjusted to correspond to different video source formats, camera properties, and displays, enabling trouble-free production.

[Input]

- 34 inputs in total, with 32 SDI and 2 DVI inputs.
- All SDI inputs are provided with a 10 bit frame synchronizer.
- 8 inputs equipped with color correctors.
- \bullet 4 inputs equipped with up-converters. Signals can be delayed by up to 8 frames.

Output

- 16 SDI outputs with 2 outputs per channel.
- 4 outputs equipped with color correctors.
- 2 outputs equipped with downconverters.
- *Some functions differ when 3G mode is selected. See page 9 for details.

Control Panel Rear Terminal

IIIIIII						
MAIN FRAME	MENU PANEL	DVI-D	USB	COM1 (M)	COM2 (RS-232)	GPI 1/O
	·		32			

			Ing	Input		
				SDlx32	DVI-Dx2	SDIx16
	480/59.94	li, 576/50i		•	_	•
	1080/59.9)4i, 50i		•	_	•
	720/59.94	łр, 50р		•	_	•
SDI	1080/24P	sF		•	_	•
	1080/23.9	8PsF		•	_	•
	1080/25P	sF, 29.97PsF		•	_	•
	1080/59.9	14p, 50p (3G mo	de)	*	_	*
	XGA	60Hz	1024 x 768	_	•	_
	WXGA	60Hz	1280 x 768	_	•	_
	SXGA	60Hz	1280 x 1024	_	•	_
	WSXGA+	60Hz	1680 x 1050	_	•	_
DVI-D	UXGA	60Hz	1600 x 1200	_	•	_
	WUXGA	60Hz	1920 x 1200	_	•	_
	1080/59.9	4p, 50p		_	•	_
	1080/59.9)4i, 50i		_	•	_
	720/59.94	∤p, 50p		_	•	_

Mainframe Rear Terminal



System Functionality*1

32 SDI and 2 DVI inputs and 16 SDI outputs, with a wide variety of keyers and DVEs. Versatile transition modes and extensive video production features are achieved with high cost effectiveness. Functions are scalable using plug-in software.

Operability

Intuitive operation is realized by Multi-Selection Panel, cross point buttons with color grouping function, and a OLED source name display panel. These function to enhance visibility helps quick and accurate switching.

Reliability

The power supply for the mainframe and control panel is redundant. Up to 3 panels can be operated through an IP connection to provide stable system operation.

*1: Some functions differ when 3G mode is selected. See page 9 for details.

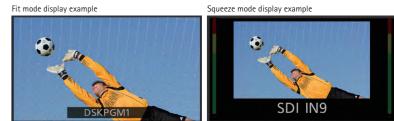
Built-in 4ch MultiViewer Function*2

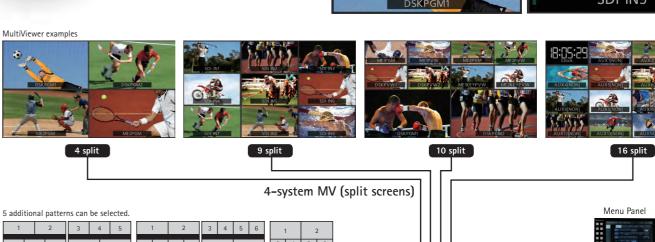
An independent 4ch MultiViewer output function is provided as standard, enabling displays of up to 16 split screens (a total of 9 patterns).

All of these functions are available without the need for a specialized device.

- MultiViewer can be selected from a total of 9 patterns, including 4 split, 5 split (2 patterns), 6 split (2 patterns), 9 split, 10 split (2 patterns), and 16 split.
- Source names, tallies, audio level meters, clock and safety markers can be displayed.
- Select between fit mode, in which the video image is the same size as the split frame, and squeeze mode, which places the source name and level meter outside the image.

^{*2:} Some functions differ when 3G mode is selected. See page 9 for details.





AV-HS6000

5 split

Effects to Enhance Your Creativity

Diverse DVE Transitions*1

In addition to wipe, mix, and cut transitions, DVE transitions with 3D DVE 2ch. such as size reduction and sliding, can be performed. Diverse rendering of image effects such as mosaic or defocus are possible.

• 4ch of 3D DVE and 2ch of 2D DVE systems are provided to support background and keys for each ME. *1: Some functions differ when 3G mode is selected. See page 9 for details.

Various Keyers*2

Featuring variety of keyers, HS6000 supports creative live content creation. A luminance key, linear key, chroma key, full key, and PinP are provided for 4ch per ME (8ch in total), plus 4ch of DSK, for a total 12keyers, with 4ch of upstream key (USK).

- Chroma key: By implementing the Primatte®*3 algorithm, real time and high quality key composition are possible.
- PinP: 4ch per ME (8ch total). Through the flying key effect, move, expand and shrink the input key signals using DVE effects.
- **Key preset**: Key Preset function allows easy store and recall of the settings for key. 4 settings for each channel of key and 4 settings for each channel of DSK can be registered.
- Upstream key: 4ch of USK are convenient for usage such as adding the CG sources to fill the gap of 4:3 image to 16:9 image.
- Downstream key: 4ch are available. Can be assigned to PGM1/PGM2.
- *2: Some functions differ when 3G mode is selected. See page 9 for details.

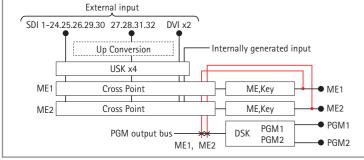
Key Types

	USK	KEY	DSK
Luminance key	/	/	/
Linear key	~	✓	~
Chroma key		✓	
Full key		~	
Picture in Picture		✓	

Available Functions

	〈KEY1〉	⟨KEY2⟩	〈KEY3〉	⟨KEY4⟩	DSK1-4
Transition	CUT/MIX/ WIPE	CUT/MIX/ WIPE	CUT/MIX/ WIPE	CUT/MIX/ WIPE	CUT/MIX
Chroma key	Standard	optional	optional	optional	N/A
PinP ^{*4}	3D effect	3D effect	2D effect	2D effect	N/A

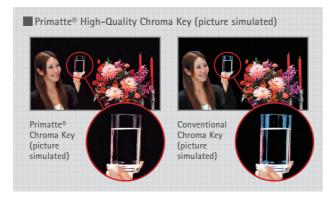
Key Formation

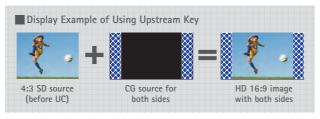


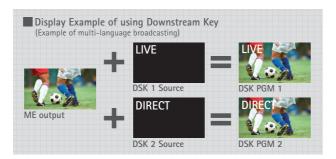
^{*3:} Primatte® is a registered trademark of IMAGICA DIGIX Inc. The copyright of Primatte® belong to IMAGICA DIGIX Inc The patents for Primatte® belong to IMAGICA DIGIX Inc.











Memory Functions*1

Using memory function, setting, video and effects can be easily stored and recalled. It allows quick operation of switching and recalling effects in live video production, supports efficient operation and making it easy to perform video effects for more complicated operations.

- Shot memory: This function recalls background transition patterns or other video effects, including PinP size, position, border width, and key on (maximum of 81 memories). Effect dissolve can be set to ensure smooth switching from the current effect to the next effect registered in shot memory.
- Event memory: This function allows continuous image effects to be to registered and played back in a timeline.
- Macro memory: This function allows record and playback of a series of operations on the Control Panel. It can also record and playback setting information, such as input/output and keyers. Macro memories can be played back by assigning them to the cross point buttons, such as macro bus, PGM, and PST.
- Video memory: Moving image (Clip) and still image (Still) can be recorded in 4ch each (maximum of 81 memories*2) for use as video sources. Maximum 60 seconds of moving images can be saved in standard mode, and Maximum 30 seconds in high image quality mode. Moving image (Clip) allows audio recording and playback.
- *1: Some functions differ when 3G mode is selected. See page 9 for details.
- *2: Storage module is required separately.

Intuitive Switching

- Multi-Selection Panel: A color panel that can display thumbnail images with high visibility. The switches provide a tactile response which allows quick and precise memory operation.
- Animation wipe: With moving images (clip) and still images (still) recorded in video memory, animation wipes can be created easily.







Flexible Scalability and Secure Operability

System Scalability*3

*3: Some functions differ when 3G mode is selected. See page 9 for details

- 16 AUX buses are provided. MIX transition is available from the AUX1 to AUX4 buses.
- The system can be operated from a PC via a network connection.
- Various interfaces and pluq-in software installation capability to expand the connectivity with other devices. Five pluq-in software is provided and customized plug-in software can be created using SDK.

Pluq-in software provided *For information on downloading plug-in software, see "Software download" on the Panasonic website (http://pro-av.panasonic.net/en/).

EXT Control

This software allows sending and receiving information on source switching or source name for AV-HS6000 buses between external devices such as system controllers or tally interfaces connected via network.

P2 Control

This software allows connection and control of Panasonic P2 devices via RS-422 serial communications.

This software allows control such as crosspoint switching or transition on GVG200 protocol compliant external controllers, editors, etc. by RS-422 serial communications. (External controllers and control software are sold separately.)

This software allows crosspoint switching from a remote operation panel (VS-R45) via an IP network. (VS-R45 is a product of Venetex Corp.)

This software provides tally output and source names to an external tally display or interface by RS-422 serial communications with UMD protocol Ver. 3.1 compliant devices.

* DVI monitor and menu panel cannot be connected simultaneously (Select by switch on back side).

Selectable GUI operation

Backup System for Peace of Mind

- A redundant power supply is provided for the mainframe and control panel.
- Operation of up to 3 control panels is possible through an IP connection.
- ME rows can be switched by swapping the ME panel and changing the output of the system when ME faults.
- A web browser is provided to allow access to the GUI menu from a remote PC.
- System settings and memory information can be stored on SD cards, PC's, and other optional storage devices.



^{*4:} Includes the flying key effect.

Operability Enhanced with Ergonomically Designed Panels

The graphical user interface combines excellent visibility with ease of operation

Control Panel

AV-HS60C1 (single power supply model)
AV-HS60C2 (redundant power supply model)

ME1 KEY bus selector buttons (KEY BUS DELEGATION)

- Switches bus column and functions operated by ME1 KEY bus
- 1. Select KEY 1 to 4 key source/key fill bus (key source/key fill link coupling function available)
- 2. Select AUX1 to 16 bus (AUX1 to 4 support the MIX transition function) (AUX bus 1/2 to 15/16 have the crosspoint link coupling function)
- 3. Select Display <DISP> bus*1
- (*1: This bus selects images to be displayed on Menu Panel (AV-HS60C3))
- 4. Select Utility bus*2
- (*2: This bus selects sources to be inserted in border background or key edge)
- 5. Select MACRO bus¹³ (*3: This bus plays back the macro memory)

KEY bus crosspoint buttons

- Select source for the bus switched with KEY bus select buttons
- Can playback macro memory

Source name display panel

 Displays crosspoint numbers, source display names, and macro names. Bit map characters can be displayed for source names

Crosspoint buttons

- 1. 8 colors can be used for grouping to matched sources
- 2. Switching is possible among 24 crosspoints x 4 pages (96 total crosspoints)
- 3. Assign and play back the macro memory

ME2 KEY bus selector buttons (KEY BUS DELEGATION)

- Switches bus column and functions operated by ME2 KEY bus
- 1. Select KEY 1 to 4 key source/key fill bus (key source/key fill link coupling function available)
- 2. Select DSK 1 to 4 key source/key fill bus (can be assigned to PGM1/PGM2)
- 3. Select Utility bus*2
- (*2: This bus selects sources to be inserted in the border background or key edge)
- 4. Select MACRO bus¹³ (*3: This bus plays back the macro memory)

Multi-Selection Panel • Easy-to-use colored switches with tactile response
• Wipe patterns, Event memory, Shot memory, Video memory (CLIP/STILL) can be registered and recalled











Shot memory

ry Video memory (CLIP)

Video memory (STILL)



Crosspoint area

5



ME1 ME2 SEL

XPT DSK AUX CBGD

Large and easy-to-use touch panel

Menu Panel

AV-HS60C3G

- 10.1-type(256.5 mm) Menu Panel with touch screen allows quick and easy menu operation
- Display mode can be selected for either full screen or split screen(WFM/VECT).
- On-screen software keyboard/numerical keypad available
- General-purpose DVI monitor can be used instead of Menu Panel

<Output screen to DVI monitor>



Menu screen Top menu buttons Panasonile ME1 / KEY1 / Key Setting ME1 IN/ OUT ME2 MV PLUG IN MEM DSK /MISC PRJ Left Top 25.00 SYS MENU MODE /VECT 0 0 0 0 Split-screen buttons Rotary encoders

Positioner area

Memory Card Slot

Menu Panel

• Settings and log data can be stored/accessed on an SD memory card or SDHC memory card *SD memory card and SDHC card are sold separately

Positioner

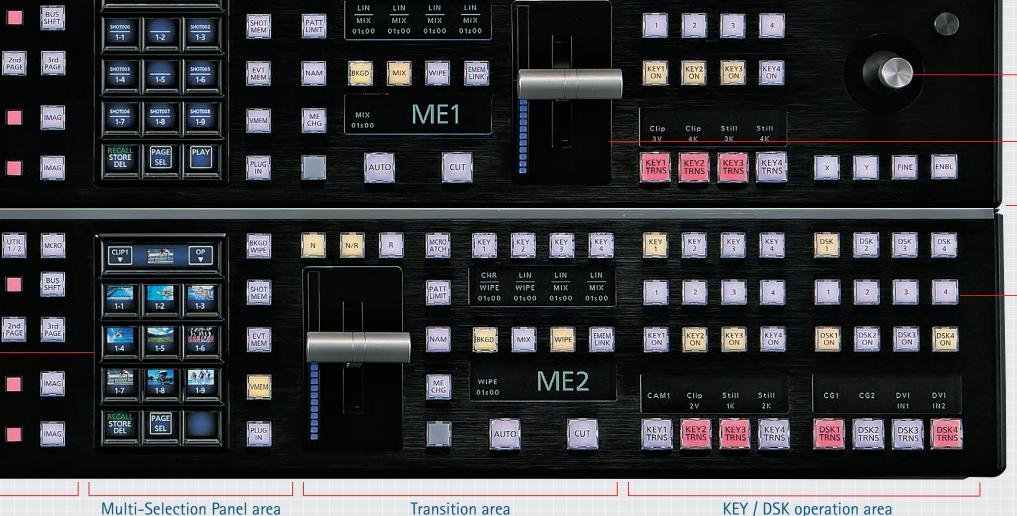
 Provides cursor operation for positioning WIPE / PinP, size adjustment, chroma key

Transition

- 1. Background/key transition: operate fader, AUTO, or CUT transitions
- 2. Select transition type: select from WIPE, MIX, or NAM transitions
- 3. Switch on/off the macro memory attachment function (macro attach): enable/disable the macro memory play back trigger assigned to PGM bus, PST bus, or AUX bus buttons
- 4. Fader play back of the event memory (EMEM link): performs fader operation of the event memory
- 5. ME change: switches the Control Panel ME1/ME2 columns

Key, DSK operation

- 1. KEY/DSK transition: operates KEY 1 to 4, DSK 1 to 4 AUTO, CUT transition of each ME
- 2. Key preset: For KEY 1 to 4 and DSK 1 to 4 of each ME, register and access key preset



Transition area KEY / DSK operation area

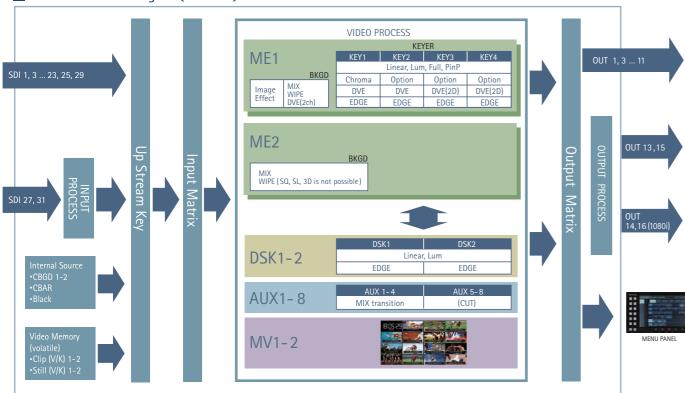
3G format compatibility

AV-HS6000 can be used as a 1.5 ME switcher compatible with 3G video formats when it is set to 3G mode.

Functions supported by format

		Standard mode	3G mode
Signal formats		1080/59.94i, 1080/50i, 1080/29.97PsF, 1080/25PsF, 1080/24PsF, 1080/23.98PsF, 720/59.94p, 720/50p, 480/59.94i, 576/50i	1080/59.94p, 1080/50p
	Number of SDI inputs	32	16
	Number of DVI inputs	2	0
	Number of up-converter channel	4	0
Input function	Dot by Dot	Possible	Not possible
	Number of delay function channel	4	2
	Number of color corrector channel	8	4
	Number of upstream keyer channel	4	2
	Number of SDI output	16	8
Output function	Number of down-converter channel	2	0
	Number of color corrector channel	4	2
ME1 function	Number of utility bus	2	1
	BKGD transition pattern (SQ, SL, 3D)	Possible	Not possible
MEGG	IMAGE	Possible	Not possible
ME2 function	Number of keyer	4	0
	Number of utility bus	2	0
Number of DSK ke	yer	4	2
Number of still im	age (Still) memory channel	4	2
	Number of channel	4	2
Moving image (Clip) memory	Recording time per channel (standard image quality)	Approximately 60 seconds	Approximately 30 seconds
function	Recording time per channel (high image quality)	Approximately 30 seconds	Approximately 15 seconds
Number of MultiV	iewer	4	2
Number of AUX		16	8

AV-HS6000 Block Diagram (3G mode)



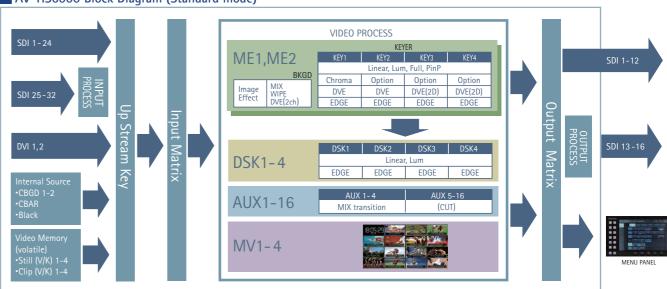
^{*} Input and output is by odd-numbered terminals only

Product Range

AV-HS6000 Series Composition

			Model no.
Mainframe	. —	Single Power Supply Model	AV-HS60U1P/AV-HS60U1E
Maintrame	• 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	Redundant Power Supply Model	AV-HS60U2P/AV-HS60U2E
Control Panel		Single Power Supply Model	AV-HS60C1P/AV-HS60C1E
Control Panel		Redundant Power Supply Model	AV-HS60C2P/AV-HS60C2E
Menu Panel	AV-HS60C3G		
Storage Module			AV-HS60D1G
Chroma Key Software			AV-SFU60G

AV-HS6000 Block Diagram (Standard mode)



10

^{*1080}i format signals where half of the lines are thinned out from 1080p format signals are output from OUT14 and OUT16 terminals.

Specifications	i		
Mainframe AV-H	S60U1P/E, <i>A</i>	NV-HS60U2P/E	
Power Supply	AC100 V to 240 V (AV-HS60U2 supp	/, 50 Hz/60 Hz oorts redundant power supply)	
Power Consumption	110 W		
Ambient Operating Temperature	0°C to 40°C (32°F	to 104°F)	
Operating Ambient Humidity	10% to 90% (no	condensation)	
Storage Temperature	0°C to 40°C (32°F	to 104°F)	
Storage Humidity	10% to 90% (no condensation)		
Weight		rox. 12.6 kg (27.8 lbs.)(excluding accessories) rox. 13.5 kg (29.7 lbs.)(excluding accessories)	
Dimensions (WxHxD)	482 mm×132 mm (18-31/32 inchesx	n×418 mm 5-3/16 inches×16-15/32 inches)(excluding protrusions)	
Video Terminal			
SDI IN 1 to SDI IN 32	During Standard	mode	
Terminals	with up-convert	Cx32 N 28, SDI IN 31, SDI IN 32 terminals are equipped	
	HD-SDI	SMPTE292M (BTA S-004) standard compliant • $0.8 \text{ V } [p-p]\pm 1006 (75 \Omega)$ • Automatic equalizer $100 \text{ m } (328 \text{ ft})$ (when 1.5 Gbps/SC-FB cable is used)	
	SD-SDI	SMPTE259M standard compliant • 0.8 V [p-p]±10% (75 Ω) • Automatic equalizer 200 m (656 ft) (when 5C-2V cable is used)	
	 The even number cannot be used <sdi 25="" in="">, <</sdi> 	C×16 (only the odd numbered terminals can be used) ered terminals <sdi 2="" in="">, <sdi 4="" in=""> <sdi 32="" in=""> . SDI IN 27>, <sdi 29="" in="">, and <sdi 31="" in=""> terminals are color correctors.</sdi></sdi></sdi></sdi></sdi>	
	3G-SDI	3G serial digital, SMPTE424M standard compliant • 0.8 V[p-p] ±10% (75 \Omega) • Automatic equalizer 100 m (328 ft) (when 3 Gbps/5C-FB cable is used) • 3G-SDI Level B Mapping	
DVI-D IN 1 to DVI-D IN 2 Terminals	(1680×1050),UXG Vertical frequency Video format inpu 720/59.94p, 720/ • Connectors: DVI • The terminals du • The DVI-I conne • For the DVI-D co	ıts: 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 50p	
SDI OUT 1 to SDI OUT 16 Terminals	 Connectors: BNI ME1PGM, ME1PI ME2CLN, ME2KI DSKPVW2, DSK1 	uted outputs per line)	
	HD-SDI	SMPTE292M (BTA S-004) standard compliant • Output level: 0.8 V [p-p]±10%	
	SD-SDI	SMPTE259M standard compliant • Output level: 0.8 V [p-p]±10%	
	HD-SDI output: 2 Connector 3G-SDI: BNC×1 HD-SDI: BNC×6 3G-SDI signal is - No signal is o 12> terminal: - The HD-SDI si <sdi -="" 1080i="" 13="" 14:="" for="" out="" the=""> and <sdi 13-a="" 14="" correctors.="" out="" the=""> and <sdi dsk<="" dskpgm1,="" me1="" me1pgm,="" td=""><td>lines (2 distribute outputs per line) lines (2 distribute outputs per line) 6 (odd numbered terminals only) 1 (<sdi 14="" out=""> and <sdi 16="" out=""> terminals only) s not output from the even numbered terminals. utput from the <sdi 2="" out="">, <sdi 4="" out=""> <sdi 5="" out="">. gnal converted to the 1080i format is output from the > and <sdi 16="" out=""> terminals. This signal is converted to mat by decimating the 1080p signal from the <sdi 10="" 15="" out="" ut=""> terminals. and <sdi 15="" out=""> terminals are equipped with color same color corrector setting is also applied to <sdi 10="" dut="" out=""> terminals. PVW, ME1CLN, ME1KEYPVW, ME2PGM, ME2PVW, ME2CLN, PGM2, DSKPWH, DSKPVWI, DSKPCLN, SEL to MV2, and AUX1 to AUX8 can be assigned.</sdi></sdi></sdi></sdi></sdi></sdi></sdi></sdi></sdi></td></sdi></sdi></sdi>	lines (2 distribute outputs per line) lines (2 distribute outputs per line) 6 (odd numbered terminals only) 1 (<sdi 14="" out=""> and <sdi 16="" out=""> terminals only) s not output from the even numbered terminals. utput from the <sdi 2="" out="">, <sdi 4="" out=""> <sdi 5="" out="">. gnal converted to the 1080i format is output from the > and <sdi 16="" out=""> terminals. This signal is converted to mat by decimating the 1080p signal from the <sdi 10="" 15="" out="" ut=""> terminals. and <sdi 15="" out=""> terminals are equipped with color same color corrector setting is also applied to <sdi 10="" dut="" out=""> terminals. PVW, ME1CLN, ME1KEYPVW, ME2PGM, ME2PVW, ME2CLN, PGM2, DSKPWH, DSKPVWI, DSKPCLN, SEL to MV2, and AUX1 to AUX8 can be assigned.</sdi></sdi></sdi></sdi></sdi></sdi></sdi></sdi></sdi>	
	3G-SDI	3G serial digital, SMPTE424M standard compliant	

3G serial digital, SMPTE424M standard compliant
• Output level: 0.8 V [p-p] ±10%
• 3G-SDI Level B Mapping

Signal Formats	SD	480/59.94i, 576/50i
	HD	1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 1080/24PsF, 1080/23.98PsF, 1080/25PsF, 1080/29.97PsF, 1080/59.94p, 1080/50p
Signal Processing	Y:P _B :P _R	4:2:2 10 bit
	R:G:B	4:4:4 8 bit
ME Number	2 ME	

REF Terminal	In Genlock mode: Blac • If the loop-through • In the 1080/24PsF a	ies as those of the system formats supported k burst or Tri-level Sync input signals (with loop-through; output is not used, provide a 75 Ω termination. nd 1080/23.98PSF formats, only Genlock mode supported F format block burst single with 10 Field ID.	
	In the 1080/23.38PsF format, black burst signals with 10 Field ID (SMPTE318M standard compliant) or Tri-level Sync signals supported In the 1080/24PsF format, Tri-level Sync signals supported In internal sync mode: Black burst output signal ×2		
LTC IN Terminal	This is the LTC (linear time code) input terminal. • Connectors: BNC • Impedance: $1 \text{ k}\Omega$ • Level: $1 \text{ to } 2 \text{ V } [p-p]$		
Video Delay Time	During Standard mode		
	1 line (H)	When the frame synchronizer is set to "Off" and the up converter is set to "Off"	
	1 frame (F)	When the frame synchronizer is set to "On", or the up- converter is set to "On"	
		ave passed through PinP, DVE, MultiView, down-converted um delay of 1 frame is applied in each case.	
	During 3G mode		
	2 line (H)	When the frame synchronizer is set to [Off]	
	2 frame (F)	When the frame synchronizer is set to [On]	
	Maximum of 2 fram or MultiView.	e delay is added to each when passed through PinP, DVE,	

STP (Shielded Twisted Pair) cable recommended • Connector: RJ-45
Compatible with 100Base-TX and AUTO-MDIX (For Control Panel AV-HS60C1/AV-HS60C2 connection) Connection cable (supplied with AV-HS60C1/AV-HS60C2): LAN cable (CATSE), straight cable, STP (Shielded Twisted Pair), 10 m (32.8 ft) Connector: RJ-45
RS-422 Control Terminal For master connection for controlling external devices • Connector: D-sub 9-pin (female) x 3, inch screw
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 via menu
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
GPI OUT: 48 outputs, selected from general purpose, tally Open collector output • Connector: D-sub 25-pin (female) x 2, inch screw

Control Panel A	V-HS60C1P/E,AV-HS60C2P/E
Power Supply	AC100 V to 240 V, 50 Hz/60 Hz (AV-HS60C2 supports redundant power supply)
Power Consumption	40 W
Operating Ambient Temperature	0°C to 40°C (32°F to 104°F)
Operating Ambient Humidity	10% to 90% (no condensation)
Storage Temperature	0°C to 40°C (32°F to 104°F)
Storage Humidity	10% to 90% (no condensation)
Weight	AV-HS60C1: Approx. 13.0 kg (28.6 lbs.)(excluding accessories) AV-HS60C2: Approx. 13.9 kg (30.6 lbs.)(excluding accessories)
Dimensions(WxHxD)	980 mm×153.4 mm×267 mm (38-19/32 inches×6-1/32 inches×10-1/2 inches) (excluding protrusions)

Control Terminal

Mainframe Terminal	Compatible with 100Base-TX and AUTO-MDIX (For Mainframe AV-HS60U1/AV-HS60U2 connection) Connection cable (supplied with AV-HS60C1/AV-HS60C2): LAN cable (CAT5E), Straight cable, STP (Shielded Twisted Pair), 10 m (32.8 ft) • Connector: RJ-45 When connected to the <lan> terminal, no video will be displayed on the Menu Panel AV-HS60C3G.</lan>
MENU PANEL Terminal	Used only for the Menu Panel AV-HS60C3G Connector: DVI-D Because an independent signal format is used,cannot be displayed on a DVI-D monitor. Cannot be used concurrently with a DVI-D monitor (computer) connected to the <dvi-d> terminal. Select with the display selector switch.</dvi-d>
DVI-D Terminal	Used for displaying menus to the DVI monitor • Connector: DVI-D • Monitor resolution: 1366×768 compatible monitor • Cannot be used concurrently with the <menu panel=""> terminal. Select with the display selector switch.</menu>
USB Terminal	For DVI monitor menu operation Connector: USB (type A, female) Cannot be used for the Menu Panel AV-HS60C3G.
Display Selector Switch	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal</dvi-d></menu>
COM1(M) Terminal	RS-422 Control Terminal For master connection for controlling external devices • Connector: D-sub 9-pin (female), inch screw
COM2(RS-232) Terminal	RS-232 Control Terminal For external device control connections • Connector: D-sub 9-pin (male), inch screw
GPI I/O Termina	GPI IN: 8 inputs, general-purpose, photocoupler sensing ALARM OUT: 1 output, open collector output (negative logic) GPI OUT: 10 outputs, selected from general purpose, tally Open collector output Connector: D-sub 25-pin (female), inch screw
ME Number	2 ME
Accessories • LAN Ca	ble –AV-HS60C1P: 1 cable, AV-HS60C2P: 2 cables –AV-HS60C1E: 2 cables, AV-HS60C2E: 4 cables able: 1 cable (used to connect with the Mainframe AV-HS60U1/AV-HS60U2) blank cap (large): 24 caps blank cap (small): 12 caps

Menu Panel AV-HS60C3G		
Power Supply	DC12 V/0.54 A (Supplied from AV-HS60C1/AV-HS60C2 using the supplied cable)	
Power Consumption	6.48 W	
Operating Ambient Temperature	0°C to 40°C (32°F to 104°F)	
Operating Ambient Humidity	10% to 90% (no condensation)	
Storage Temperature	0°C to 40°C (32°F to 104°F)	
Storage Humidity	10% to 90% (no condensation)	
Weight	Approx. 1.7 kg (3.7 lbs.) (excluding accessories)	
Dimensions (WxHxD)	290 mm×177 mm×46.1 mm (11-13/32 inches×6-31/32 inches×1-13/16 inches) (excluding protrusions) 4RU	

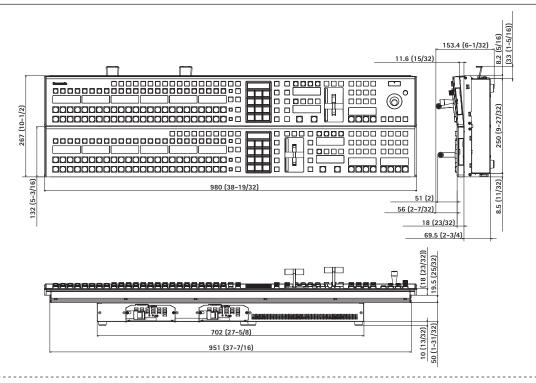
Control Terminal	
Control Panel Terminal	Used only for the Control Panel AV-HS60C1/AV-HS60C2 • Connectors: DVI-D • Because an independent signal format is used,DVI-D source cannot be displayed. • Cannot be used concurrently with a DVI-D monitor connected to the <dvi-d> terminal of the Control Panel AV-HS60C1/AV-HS60C2. Set the display selector switch of the Control Panel AV-HS60C1/AV-HS60C2 to the <menu panel=""> terminal side.</menu></dvi-d>

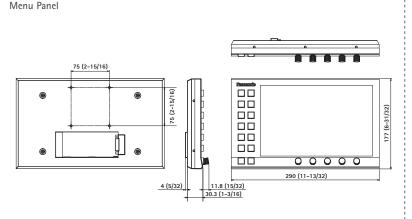
Connecting cable (with ferrite core) for the Control Panel AV-HS60C1/AV-HS60C2 : 1cable
 Bracket for mounting the Control Panel AV-HS60C1/AV-HS60C2
 Screws for the bracket for mounting the Control Panel AV-HS60C1/AV-HS60C2 : 6 screws

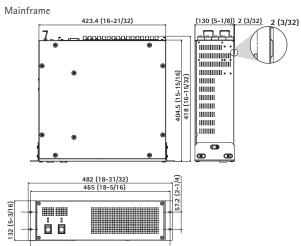
torage Module AV-HS60D1G		
Veight	Approx. 7.0 g (0.3 ozs.)	
Dimensions (WxHxD)	29.85 mm×4.0 mm×50.8 mm (1-3/16 inches×5/32 inches×2 inches)	
Accessories • AV-HS	660D1 Installation Guide	

Due to device characteristics, the storage module AV-HS60D1G is subject to data damage and overwriting restrictions.
Backup of important data is recommended.

11 12 Control Panel







Panasonic

Panasonic Corporation

AVC Networks Company

2-15 Matsuba-cho, Kadoma, Osaka 571-8503

http://pro-av.panasonic.net/

[Countries and Regions]

Argentina

Australia Bahrain

Brazil +55 11 3889 4035 +1 905 624 5010 +86 10 6515 8828 Canada China +852 2313 0888 +421 (0) 903 447 757 Hong Kong Czech Republic: Denmark +45 43 20 08 57 +20 2 23938151 Egypt Finland, Latvia. Lithuania, Estonia +358 (9) 521 52 53 +33 (0) 1 47 91 64 00 France Germany, Austria, Switzerland +49 (0) 6103 313887 Greece +30 210 96 92 300 Hungary +36 (1) 382 60 60 +91 1860 425 1860 India Indonesia +65 6277 7284 Iran (Vida) +98 21 2271463 (Panasonic Office)+98 2188791102 Italy +39 02 6788 367 Jordan +962 6 5859801 Kazakhstan +7 727 298 0891 Korea Kuwait +82 2 2106 6641 +96 522431385

+54 11 4122 7200

+61 (0) 2 9491 7400 +973 252292

+96 11665557 Lebanon +60 3 7809 7888 +52 55 5488 1000 Malaysia Mexico Netherlands, Belgium

+31 73 640 2729 New Zealand +64 9 272 0100 Norway Pakistan +47 67 91 78 00 +92 5370320 (SNT) +972 2 2988750 +507 229 2955 Palestine Panama Philippines +65 6277 7284 +48 (22) 338 1100 +351 21 425 77 04 Poland Portugal Romania, Albania, Bulgaria, Macedonia +40 (0) 729 164 387 Russia & CIS +7 495 9804206

+96 626444072 +65 6277 7284 Saudi Arabia Singapore Slovak Republic, Croatia, Serbia, Bosnia, Montenegro, Slovenia

+421 (0) 903 447 757 +27 11 3131622 +34 (93) 425 93 00 South Africa Spain +46 (8) 680 26 41 +963 11 2318422/4 Sweden Svria Taiwan Thailand +886 2 2227 6214 +662 731 8888

Turkey +90 210 070 U.A.E. (for All Middle East) +971 4 8862142 +90 216 578 3700

+380 44 4903437 U.K. U.S.A. +44(0)1344 70 69 13 +1 877 803 8492 +65 6277 7284



JQA-0443



Factories of AVC Networks Company have received certification. (Except for 3rd party's peripherals.)