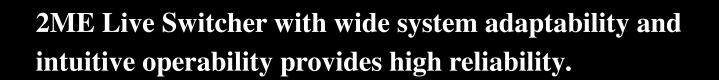
Panasonic

AV-HS6000 2ME Live Switcher

075

AUTO







Excellent Live Operability Meets Creativity

Excellent Value System Capability

32 SDI and 2 DVI inputs, 16 SDI outputs

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.*1
- 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.

Control Panel Rear Terminal



Supported Formats

				Input		Output
				SDIx32	DVI-Dx2	SDIx16
	480/59.94	i, 576/50i		•	—	•
	1080/59.9	1080/59.94i, 50i			-	•
	720/59.94	p, 50p*1		•	-	•
SDI	1080/24P	sf*1		•	—	•
	1080/23.9	1080/23.98Psf*1			—	
	1080/25PsF*1			•	—	•
	1080/59.9	4p, 50p*2		*2	—	*2
	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	—	•	—
	1080/59.94p, 50p		—	•	-	
	1080/59.9	1080/59.94i, 50i		_	•	—
	720/59.94	p, 50p		—	•	—

*1 : Available in the near future

*2 : Future development, subject to an additional fee. Functionality will be partially restricted.

Mainframe Rear Terminal





2MF Live Switcher AV-HS6000

System Functionality

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^{*1}.

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^{*2}.

> *1 : Installation of plug-in software will be supported in the near future. *2 : Available in the near future.

Built-in 4ch MultiViewer Function

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.
- Squeeze mode^{*3} can be selected to display the same sized split video image with the source name and level meter placed outside of the image.

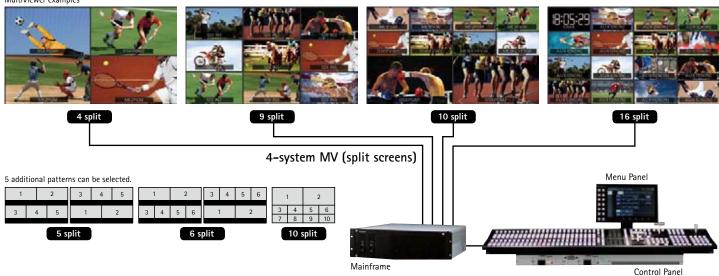
*3 : Available in the near future.

Standard mode display example





MultiViewer examples



Effects to Enhance Your Creativity

Diverse DVE Transitions

In addition to wipe, mix, and cut transitions, DVE transitions with 3D DVE 2ch, such as size reduction and sliding, can be performed.¹¹ Diverse rendering of image effects such as mosaic or defocus are possible.*1

• 4ch of 3D DVE and 2ch of 2D DVE systems are provided to support background and keys for each ME.

Various Keyers

Featuring variety of keyers, HS6000 supports creative live content creation. A luminance key, linear key, chroma key², 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)*1.

- Chroma key: By implementing the Primatte®'3 algorithm, real time and high quality key composition are possible.
- PinP: 4ch per ME (8ch total) .
- Key preset¹: 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'1: 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.

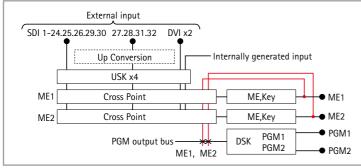
Key Types

	USK	KEY	DSK
Luminance key	\checkmark	\checkmark	\checkmark
Linear key	\checkmark	\checkmark	\checkmark
Chroma key		\checkmark	
Full key		\checkmark	
Picture in Picture		\checkmark	

Available Functions

	$\langle \text{KEY1} \rangle$	〈KEY2〉	<pre>KEY3></pre>	⟨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	3D effect	3D effect	2D effect	2D effect	N/A
Flying key	available	available	N/A	N/A	N/A

Key Formation



^{*1 :} Available in the near future.

*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.



rcle wip

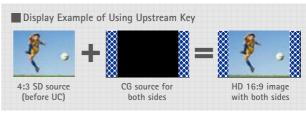


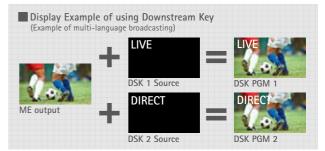
Sample of 4 keyers in use



Primatte[®] High-Quality Chroma Key (picture simulated)







^{*2 :} Standard for Key 1. Optional for Key 2 to Key 4. Chroma key option is available in the near future.

Memory Functions

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 memory¹: This function allows continuous image effects to be to registered and played back in a timeline.
- Macro memory¹: This function allows record and playback of a series of operations² 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^{*1*3}) 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.

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

- 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.*5
- Various interfaces and plug-in software installation capability to expand the connectivity with other devices. Three plug-in software is pre-installed and customized plug-in software can be created using SDK.⁶

Plug-in software provided

Serial control software

This software controls switching and transition of crosspoint with GVG200 compliant external controllers and editors via an RS-422 serial interface (External controllers and control software are purchased separately).

IP connected AUX bus control software

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

Serial tally software

This software provides tally output and source names to an external tally display and I/F with UMD protocol Ver. 3.1 compliant and RS-422 serial communication devices.

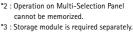
Backup System for Peace of Mind

- 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^{*5}.
- ME rows can be switched by swapping the ME panel and changing the output of the system when ME faults^{*5}.
- A web browser is provided to allow access to the GUI menu from a remote PC'5.
- \bullet System settings and memory information can be stored on SD cards, PC's $^{\scriptscriptstyle 5}$, and other optional storage devices.
- *5 : Available in the near future
- *6 : RS422 x 4 ports and LAN x 1 port for mainframe, RS422 and RS232 x 1 port each for control panel. Installation of the plug-in software to be supported in the near future.



*DVI monitor and menu panel cannot be connected simultaneously(DIP switch selectable) *Menu screen on PC does not display moving video, WFM, or VEC.





1 : Available in the near future.

Display Example of Shot memory

* * *

* *

Multi-Selection Pane

Display Example of

Multi-Selection Panel^{*4}

Video memory (STILL)

Memory can be

recalled just by

selection button

pushing the

*4 : Thumbnail display on Multi-Selection
 Panel will be available in the near future.

Operability Enhanced with Ergonom

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)
- Select Display <DISP> bus'1
 (*1: This bus selects images to be displayed on Menu Panel (AV-HS60C3))
 Select Utility bus'2
- (*2: This bus selects sources to be inserted in border background or key edge)
 5. Select MACRO bus^{*3} (*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
- 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)

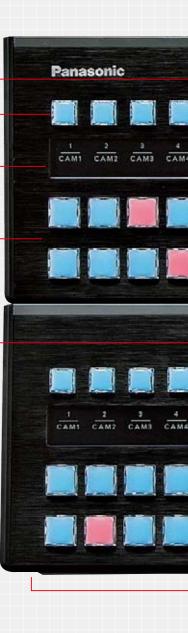
- Switches bus column and functions operated by ME2 KEY bus
- 1. Select KEY 1 to 4 key source/key fill bus (key source/key fill link coupling function available)
- Select DSK 1 to 4 key source/key fill bus (can be assigned to PGM1/PGM2)
- 3. Select Utility bus^{*2}
- (*2: This bus selects sources to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







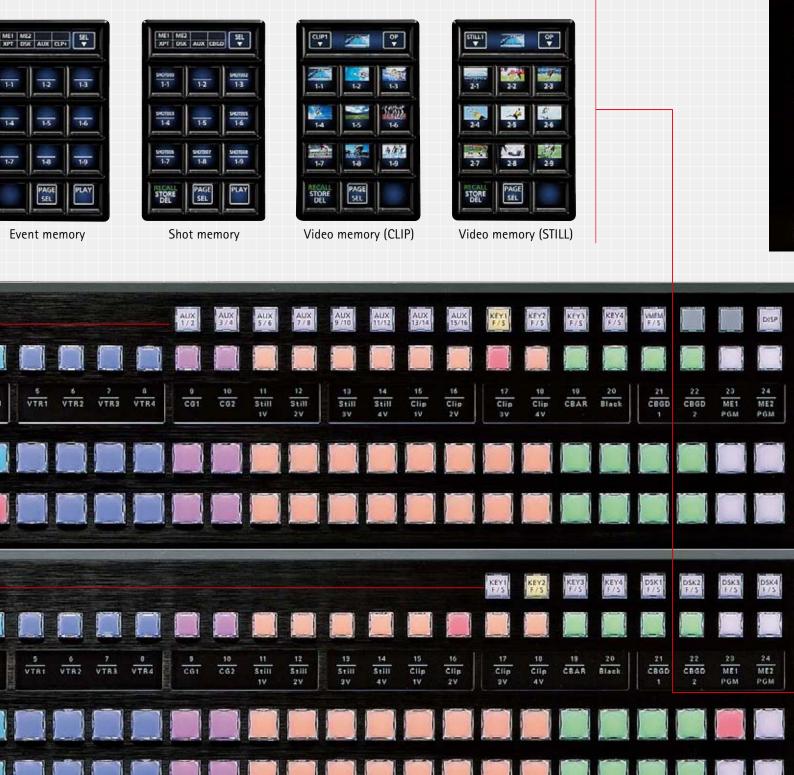
Wipe Pattern



ically Designed Panels

nel • Easy-to-use colored switches with tactile response

• Wipe patterns, Shot memory, Event memory, Video memory (CLIP/STILL) can be registered and recalled



Crosspoint area

asonic	ALARM M	ACRO ME1 / I	KEY1 / Key	y Setting		+	→ Defau Settin
TOUT	82V1	Key Setti	ng PioP Adj	ust Rying Key A	djust Transition	Key Pattern	Chroma
MV	KIYZ	Fil Matte	Hue	S#1 0.0	Lum 100.0		Color Palette
PLUG	KLYJ	Edge	Type Off	Width 2	Direction 0	Density 100%	HE Matte
MEM	RLV4	Edge Color	Hue	Sat 0.0	Lum 0.0		Color Palette
	BKED	Mask	Mask Off	Type ForeGround	invert		
PRJ	MBC	Marik Adjunt1	Left -25.00	Top 25.00			
CONF		Marik Adjunt2	Right 25.00	Bottom 25.00			
WFM							



- 10.1-type(256.5 mm) Menu Pa and easy menu operation
- On-screen software keyboard/
- General-purpose DVI monitor



PLUG

11

PAGE

SEL

STORE

IMAG

Transition area

AUTO

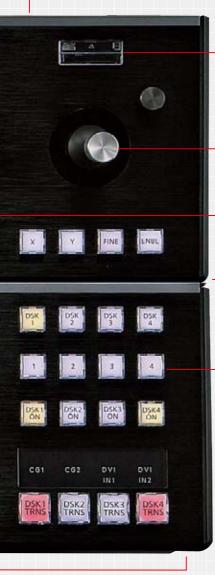
KEY1 TRNS

CUT

1 1 KEY4 TRNS

Menu Panel o-use touch panel Menu screen Panel Panasonic S60C3G ME1 / KEY1 / Key Setting IN/ OUT ME1 nel with touch screen allows quick ME2 MV numerical keypad available PLUG IN Top menu can be used instead of Menu Panel buttons DSK /MISC PRJ Split-screen WFM /VECT \bigcirc Ο MENU MODE \bigcirc ()buttons **Rotary encoders**

Positioner area



Memory Card Slot

 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 / Flying Key, 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

operation area

Product Range

AV-HS6000 Series Composition Model no. Single Power Supply Model AV-HS60U1P/AV-HS60U1E Mainframe Redundant Power Supply Model AV-HS60U2P/AV-HS60U2E Single Power Supply Model AV-HS60C1P/AV-HS60C1E Five IIII VIII Control Panel Redundant Power Supply Model AV-HS60C2P/AV-HS60C2E Menu Panel AV-HS60C3G Storage Module AV-HS60D1G Chroma Key Software AV-SFU60G*

Specifications

Mainframe AV-HS60U1P/E,AV-HS60U2P/E

Power Supply	AC100 V to 240 V, 50 Hz/60 Hz (AV-HS60U2 supports 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	AV-HS60U1: Approx. 12.6 kg(27.8 lbs.)(excluding accessories) AV-HS60U2: Approx. 13.5 kg(29.7 lbs.)(excluding accessories)
Dimensions(WxHxD)	482 mmx132 mmx418 mm (18-31/32 inchesx5-3/16 inchesx16-15/32 inches)(excluding protrusions)

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''
Signal Processing	Y:PB:PR	4:2:2 10 bit
-	R:G:B	4:4:4 8 bit
ME Number	2 ME	

*Available in the near future.

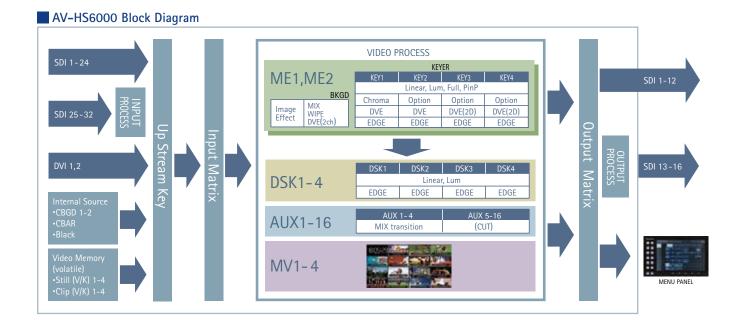
Synchronous Terr	Synchronous Terminal			
REF Terminal	REF Terminal • Connectors: BNC • Same field frequencies as those of the system formats supported In Genlock mode: Black burst or Tri-level Sync input signals (with loop-through If the loop-through output is not used, provide a 75 Ω termination. • If the 1080/24PsF and 1080/23.398PsF formats, only Genlock mode supported In the 1080/24PsF and 1080/23.398Psf 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	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"		
		passed through PinP, DVE, MultiView, down-converter, delay of 1 frame is applied in each case.		

LAN Terminal	Compatible with 100Base-TX and AUTO-MDIX (For IP control) • Connection cable: LAN cable (CAT5E), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended • Connector: RJ-45
PANEL Terminal	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
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
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 via menu
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
GPI OUT1/GPI OUT 2 terminal	GPI OUT: 48 outputs, selected from general purpose, tally Open collector output • Connector: D-sub 25-pin (female) x 2, inch screw
	C cable -AV-HS60U1P: 1 cable, AV-HS60U2P: 2 cables -AV-HS60U1E: 2 cables, AV-HS60U2E: 4 cables ck-mounted rear panel support bracket rews for the rack-mounted rear panel support bracket: 8 screws errating Guide for the AV-HS6000 series (Excerpted Version)

Video Terminal

SDI IN 1 to SDI IN 32 Terminals	with up-convert	N 28, SDI IN 31, SDI IN 32 terminals are equipped
	HD-SDI	 SMPTE292M (BTA S-004) standard compliant 0.8 V [p-p]±10% (75 Ω) Automatic equalizer more than 100 m(328 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)
DVI-D IN 1 to DVI-D IN 2 Terminals	2 lines Digital RGB:XGA (1024x768), WXGA (1280x768), SXGA (1280x1024), WSXGA+ (1680x1050),UXGA (1600x1200), WUXGA (1920x1200) Vertical frequency: 60 Hz Video format inputs: 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p • Connectors: DVI-Dx2 • The terminals do not support HDCP. • The DVI-I connector cable cannot be used. • For the DVI-D connector cable, use a cable with a length of up to 5 m (16.4 ft)	
SDI OUT 1 to SDI OUT 16 Terminals	 Connectors: BNI ME1PGM, ME1P ME2CLN, ME2KI DSKPVW2, DSK1 	uted outputs per line) Cx32 WV, ME1CLN, ME1KEYPVW, ME2PGM, ME2PVW, EYPVW, DSKPGM1, DSKPGM2, DSKPVW1, CLN, DSK2CLN, DSK3CLN, DSK4CLN, SEL o MV4, and AUX1 to AUX16 can be assigned.
	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%

*1 : Available in the near future.



Control Panel AV-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)

Power Supply DC12 V/0.54 A (Supplied from AV-HS60C1/AV-HS60C2 using the supplied cable) Power Consumption 6.48 W **Operating Ambient** 0°C to 40°C (32°F to 104°F) Temperature 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) 290 mm×177 mm×46.1 mm Dimensions(WxHxD) (11-13/32 inches×1-13/16 inches) (excluding protrusions) 4RU

Control Terminal

Control lerminal		
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 (computer) • 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 (computer) 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 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 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	
AC Cable -AV-HS60C1P: 1 cable, AV-HS60C2P: 2 cables -AV-HS60C1E: 2 cables, AV-HS60C2E: 4 cables LAN Cable: 1 cable (used to connect with the Mainframe AV-HS60U1/AV-HS60 Switch blank cap (large): 24 caps Switch blank cap (small): 12 caps		

Control Terminal

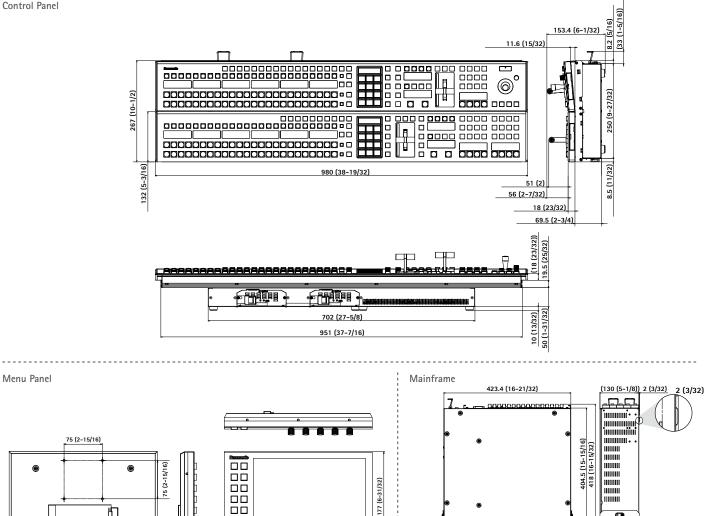
Menu Panel AV-HS60C3G

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

Storage Module AV-HS60D1G					
Weight	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-H	560D1 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.

Control Panel





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6

4 (5/32)

[Countries and Regions]

11.8 (15/32) 30.3 (1-3/16)

290 (11-13/32)

Panasonic Corporation AVC Networks Company	Argentina Australia	+54 11 4122 7200	Lebanon	00 11005557	Tester	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Ave Networks company 2-15 Matsuba-cho, Kadoma, Osaka 571-8503 Japan http://pro-av.panasonic.net/	Bahrain Brazil Canada China Hong Kong Czech Republic Denmark Egypt	+61 (0) 2 9491 7400 +973 252292 +55 11 3889 4035 +1 905 624 5010 +86 10 6515 8828 +852 2313 0888 : +421 (0) 903 447 757 +45 43 20 08 57 +20 2 23938151 Lithuania, Estonia +358 (9) 521 52 53 +33 (0) 147 91 64 00	Malaysia Mexico Netherlands, Ba Norway Pakistan Palestine Panama Philippines Poland Portugal	+96 11665557 +60 3 7809 7888 +52 55 5488 1000 9lgium +31 73 640 2729 +64 9 272 0100 +47 67 91 78 00 +92 5370320 (SNT) +972 2 2988750 +50 7229 2955 +65 6277 7284 +48 (22) 338 1100 +351 21 425 77 04	Turkey U.A.E. (for All f Ukraine U.K. U.S.A. Vietnam	+90 216 578 3700 Viiddle East) +971 4 8862142 +380 44 4903437 +44(0)1344 70 69 13 +1 877 803 8492 +65 6277 7284	ISO 9001 JQA-0443
		Germany, Austria, Switzerland		Romania, Albania, Bulgaria, Macedonia			
	Greece Hungary India Iran (Vida) (Panasonic Offic Italy Jordan Kazakhstan Korea Kuwait	+49 (0) 6103 313887 +30 210 96 92 300 +36 (1) 382 60 60 +91 1860 425 1860 +65 6277 7284 +98 21 2271463 e)+98 2188791102 +39 02 6788 367 +962 6 5859801 +7 727 298 0891 +82 2 2106 6641 +96 522431385	Russia & CIS Saudi Arabia Singapore Slovak Republi Bosnia, Monten South Africa Spain Sweden Syria Taiwan Thailand	+40 (0) 729 164 387 +7 495 9804206 +96 626444072 +85 6277 7284 c, Croatia, Serbia, legro, Slovenia +421 (0) 903 447 757 +27 11 3131622 +34 (93) 425 93 00 +46 (8) 680 26 41 +963 11 2318422/4 +866 2 2227 6214 +662 731 8888		And	

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