



### **2ME Live Switcher**

# **AV-HS6000**

The main unit is equipped with an abundance of inputs and outputs for great system integration that includes 32 SDI and 2 DVI inputs plus 16 SDI outputs. 4 DVEs per ME enable diverse transitions when producing creative video in demanding fast-paced situations. Three types of control panels can be used. C1 and C2 panels offer 24 XPT buttons and 4 pages and allow easy switching among 96 total crosspoints. The compact panel C4 is 30% shorter than the C1/C2 version and offers an easier integration into small studios and OB Vans.

#### **Key Features**

34 inputs (SDI X32, DVI×2) and 16 SDI outputs; all inputs have built-in frame synchronizers

Simultaneous output in both 1080p and 1080i formats

4 independent MultiViewer displays; Single MultiViewer can display a maximum of 16 video sources

Equipped with real-time high-quality chroma keying that employs Primatte® algorithms / Standard 1 channel, expandable up to 4 channels

The switcher can be set by the 10,1-type touch-operated Menu Panel AV-HS60C3G (optional) or by a PC monitor and USB mouse













## AV-HS6000

https://ap.connect.panasonic.com/vn/vi/av-hs6000

Mainframe -> Model No.	AV-HS60U2P/E
Mainframe -> General -> Power	AC 100 V to 240 V, 50 Hz/60 Hz
Supply	(supports redundant power supply)
Mainframe -> General -> Power	110 W
Consumption	
Mainframe -> General -> Operating	0 °C to 40 °C (32 °F to 104 °F)
Temperature	
Mainframe -> General -> Operating	10 % to 90 % (no condensation)
Humidity	
Mainframe -> General -> Storage	0 °C to 40 °C (32 °F to 104 °F)
Temperature	
Mainframe -> General -> Storage	10 % to 90 % (no condensation)
Humidity	
Mainframe -> General -> Weight	Approx. 13.5 kg (29.7 lbs.) (excluding accessories)
Mainframe -> General -> Dimension	s W 482 mm x H 399 mm x D 418 mm
	(18-31/32 inches x 5-3/16 inches x 16-15/32 inches)
	(excluding protrusions)
Mainframe -> Video Terminal -> SDI	3
IN	• Connector: BNC x 32
	• SDI IN 27, SDI IN 28, SDI IN 21, SDI IN 32、SDI IN 32 terminals are equipped with up-
	converters,
	• SDI IN 25 to SDI IN 32 terminals are equipped with color correctors.
	HD-SDI
	SEMPTE 292M (BTQ-004) standard compliant
	• 0.8 V [p-p] ± 10 % (75 Ω)
	Automatic equalizer 100 m (328 ft) (when 1.5 Gbps/5C-FB cable is used)  CD CD.  CD.  CD.  CD.  CD.  CD.  CD.
	SD-SDI SEMPTE 35 OM standard sompliant
	SEMPTE 259M standard compliant  • $0.8 \text{ V } [p-p] \pm 10 \% (75 \Omega)$
	• Automatic equalizer 200 m (656 ft) (when 5C-2V cable is used)
	During 3G mode
	16 lines
	Connector: BNC x 16 (only the odd numbered terminals can be used)
	• The even numbered terminals , cannot be used.
	• , , and terminals are equipped with color correctors
	During 4K mode
	4K signal x 8 lines
	• Connector: BNC x 32 (3G-SDI x 4 SQD/2SI)
	Can use the 4K signal in SQD format and 2SI format
	3G-SDI
	3G serial digital, SMPTE424M standard compliant
	• 0.8 V [p-p] ± 10 % (75 Ω)
	Automatic equalizer 100 m (328 ft) (when 3 Gbps/5C-FB cable is used)
	• 3G-SDI Level B
	3G-SDI Level A (FS ON)

#### Mainframe -> Video Terminal -> SDI During Standard mode 16 lines (2 distributed outputs per line) • Connectors: BNC x 32 • ME1 PGM, ME1 PVW, ME1 CLN, ME1 KEY PVW, ME2 PGM, ME2 PVW, ME2 CLM, ME2 KEY PVW, DSKPGM1, DSKPGM2, DSKPVW1, DSKPVW2, DSK1CLN, DSK2CLN, DSK3CLN, DSK4CLN, SEL KEYPVW, MV1 to MV4, and AUX1 to AUX16 can be assigned. SMPTE292M (BTO 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 % During 3G mode 3G-SDI output: 8 lines (2 distribute outputs per line) HD-SDI output: 2 lines (2 diestbute outputs per line) 3G-SDI: BNC x 16 (odd numbered terminals only) HD-SDI: BNC x 4 ( and terminals only) • 3G-SDI signal is output from the even numbered terminals. - No signal is output from the , ... terminals. - The HD-SDI signal converted to the 1080i format is output from the and terminals. This signal is converted to the 1080i format by decimating the 1080p signal from the and terminals. • and terminals are equipped with color correctors. The same color corrector setting is also applied to and terminals. • ME1 PGM, ME1 PVW, ME1 CLN, ME1 KEY PVW, ME2 PGM, ME2 PVW, ME2 CLM, DSKPGM1, DSKPGM2, DSKPVW1, DSKPVW2, DSK1CLN, DSK2CLN, SEL KEYPVW, MV1 to MV4, and AUX1 to AUX8 can be assigned. During 4K mode 4K signal output: 3 lines (2 distribute outputs per line) 2K signal output: 2 lines (2 distribute outputs per line) Connector 3G-SDI (for 4K signal): BNC x 24 (terminal number 1 to 12) 3G-SDI (for 2K signal): BNC x 4 (terminal number 13 and 15) HD-SDI (for 2K signal): BNC x 4 (terminal number 14 and 16) • The 4K signal is output in SQD format. • The HD-SDI signal converted to the 1080i format is output from the and Mainframe -> Video Terminal -> DVI-D2 lines IN Digital RGB: XGA (1024 $\times$ 768), WXGA (1280 $\times$ 768), SXGA (1280 $\times$ 1024), WSXGA+(1680 x 1050), UXGA (1600 x 1200), WUXGA (1920 x 1200) Vertical frequency: 60 Hz Video format inputs: 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p • Connectors: DVI-D x 2 • 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) • / terminals cannot be used during 3G mode and 4K mode Mainframe -> Video Terminal -> Video SD: 480/59.94i, 576/50i HD: 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 1080/24PsF, 1080/23.98PsF, Format 1080/25PsF, 1080/29.97PsF, 3G: 1080/59.94p, 1080/50p 4K; 2160/59.94p, 2160/50p (SOD) Mainframe -> Video Terminal -> Signal[Y:PB:PR] 4:2:2 10 bit [R:G:B] 4:4:4 8 bit Processing Mainframe -> Video Terminal -> ME 2 ME Number Mainframe -> Synchronous Terminal - • Connectors: BNC > REF Terminal • 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 $\Omega$ termination • In the 1080/24PsF and 1080/23.98PsF formats, only Genlock mode supported • In the 1080/23.98PsF format, black burst signals with10 Field ID (SMPTE318M standard compliant) or Try-level with 10 Sync signals supported • In the 1080/24PsF format, Tri-level Sync signals supported In internal sync mode: Black burst output signal x 2 Mainframe -> Synchronous Terminal - This is the LTC (linear time code) input terminal. > LTC IN Terminal · Connector: BNC • Impedance: 1 kΩ • Level: 1 to 2 V [p-p] Mainframe -> Synchronous Terminal - During Standard mode 1 line (H): When the frame synchronizer is set to "Off" and the up-converter is set to "Off" > Video Delay Time 2 field (V): When the frame synchronizer is set to "On" and the up-converter is set to "On" • When the signals have passed through PinP, DVE, MultiView, down-converter, or DVI-IN, a maximum 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 (V) When the frame synchronizer is set to "On" • Maximum of 2 frame delay is added to each when passed through PinP, DVE, or Mainframe -> Control Terminal -> Compatible with 100Base-TX and AUTO-MDIX (For IP control) LAN Terminal • Connection cable: LAN cable (CAT5e), max. 100 m (328 ft), STP (Shielded Twisted Pair) cable recommended

• Connector: RI-45

	Compatible with 100BASE-TX and AUTO-MDIX (For Control Panel AV-HS60C2/AV-HS60C4
PANEL Terminal	connection)
	• Connection cable (supplied with AV-HS60C2/AV-HS60C4): LAN cable (CAT5e), straight
	cable, STP (Shielded Twisted Pair), 10 m (32.8 ft)
	• Connector: RJ-45
Mainframe -> Control Terminal ->	RS-422 Control Terminal
COM1 (M) / COM2(M) / COM3 (M)	For master connection for controlling external devices
erminals	• Connector: D-sub 9-pin (female) x 3, inch screw
Mainframe -> Control Terminal ->	RS-422 Control Terminal
COM4 (M/S) 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
Mainframe -> Control Terminal -> GP	I GPI IN: 18 inputs, general-purpose, photocoupler sensing ALARM OUT: 1 output, open
N Terminal	collector output (negative logic)  Connector: D-sub 25-pin (female), inch screw
Mainframe -> Control Terminal -> GP	GPI OUT: 48 outputs, selected from general purpose, tally
OUT1 / GPI OUT2 terminal	Open collector output
	• Connector: D-sub 25-pin (female) x 2, inch screw
Control Panel -> Model No.	AV-HS60C2P/E, AV-HS60C4P/E
Control Panel -> General -> Power	AC 100 V to 240 V, 50 Hz/60 Hz
Supply	(supports redundant power supply)
Control Panel -> General -> Power Consumption	40 W
Control Panel -> General -> Operating 'emperature	J 0 °C to 40 °C (32 °F to 104 °F)
Control Panel -> General -> Operating	10 % to 90 % (no condensation)
Control Panel -> General -> Storage	0 °C to 40 °C (32 °F to 104 °F)
Temperature Control Panel -> General -> Storage	10 % to 90 % (no condensation)
lumidity	
Control Panel -> General -> Weight	AV-HS60C2P/E: Approx. 13.9 kg (30.6 lbs.) (excluding accessories) AV-HS60C4P/E: Approx. 15.0 kg (33.0 lbs.) (excluding accessories)
Control Panel -> General ->	AV-HS60C2P/E:
Dimensions	W 980 mm x H 153.4 mm x D 267 mm
	(38-19/32 inches x 6-1/32 inches x 10-1/2 inches) (excluding protrusions)
	AV-HS60C4P/E:
	656 mm×160 mm×400 mm
	(25-53/64 inches×6-19/64 inches×15-3/4 inches) (excluding protrusions)
Control Panel -> Control Terminal -> Mainframe Terminal	Compatible with 100Base-TX and AUTO-MDIX (For Mainframe AV-HS60U2 connection) Connection cable (supplied with AV-HS60C2); LAN cable (CATSe),
waintrame terminai	Straight cable, STP (Shielded Twisted Pair), 10 m (32.8 ft)
	• Connector: RJ-45
	When connected to the terminal, no video will be displayed on the Menu Panel AV-
	HS60C3G.
Control Panel -> Control Terminal ->	Used only for the Menu Panel AV-HS60C3G
MENU PANEL Terminal	Connector: DVI-D
	Cannot be connected to DVI-D monitor.
	$\bullet$ Cannot be used concurrently with a DVI-D monitor connected to the terminal. Select
	with the display selector switch.
Control Panel -> Control Terminal ->	Used for displaying menus to the DVI monitor
OVI-D Terminal	Connector: DVI-D
	• Monitor resolution: 1366 x 768 compatible monitor
	Cannot be used concurrently with the <menu panel=""> terminal. Select with the display</menu>
Cambrial Daniel & Co. 1 CT.	selector switch.
Control Panel -> Control Terminal ->	For DVI monitor menu operation
USB Terminal	Connector: USB (type A, female)
=	
	Cannot be used for the Menu Panel AV-HS60C3G.  Switch for solecting (MENUL PANEL) terminal or CDVL Do terminal.
Control Panel -> Control Terminal ->	Cannot be used for the Menu Panel AV-HS60C3G.  Switch for selecting <menu panel=""> terminal or <dvi-d> terminal</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal ->	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal ->	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal ->	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  Connector: D-sub 9-pin (female), inch screw</dvi-d></menu>
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Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections</dvi-d></menu>
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Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal Control Panel -> Control Terminal ->	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections  • Connector: D-sub 9-pin (male), inch screw  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</dvi-d></menu>
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Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal Control Panel -> Control Terminal -> COM2 (Terminal -> CONTROL Panel -> Control Terminal -> CONTROL Panel -> Control Terminal -> CONTROL Panel -> Control Terminal ->	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections  • Connector: D-sub 9-pin (male), inch screw  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</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal Control Panel -> Control Terminal -> CONTOL Panel -> Control Terminal -> CONTOL Terminal Control Panel -> Control Terminal -> CONTROL Panel -> Control Terminal -> ME Number	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections  • Connector: D-sub 9-pin (male), inch screw  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  2 ME</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal Control Panel -> Control Terminal -> SPI I/O Terminal Control Panel -> Control Terminal -> ME Number Menu Panel -> Model No.	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections  • Connector: D-sub 9-pin (male), inch screw  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  2 ME  AV-HS60C3G</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal Control Panel -> Control Terminal -> SPI I/O Terminal Control Panel -> Control Terminal -> ME Number Menu Panel -> Model No. Menu Panel -> General -> Power	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections  • Connector: D-sub 9-pin (male), inch screw  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  2 ME  AV-HS60C3G  DC 12 V/0.54 A</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal Control Panel -> Control Terminal -> SPI I/O Terminal Control Panel -> Control Terminal -> ME Number Menu Panel -> Model No. Menu Panel -> General -> Power Supply	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections  • Connector: D-sub 9-pin (male), inch screw  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  2 ME  AV-HS60C3G</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal Control Panel -> Control Terminal -> GPI I/O Terminal  Control Panel -> Control Terminal -> ME Number Menu Panel -> Model No. Menu Panel -> General -> Power Supply Menu Panel -> General -> Power Consumption	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections  • Connector: D-sub 9-pin (male), inch screw  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  2 ME  AV-HS60C3G  DC 12 V/0.54 A  Supplied from AV-HS60C2/AV-HS60C4 using the supplied cable)  6.48 W</dvi-d></menu>
Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal Control Panel -> Control Terminal -> GPI I/O Terminal  Control Panel -> Control Terminal -> GPI I/O Terminal  Control Panel -> Control Terminal -> ME Number Menu Panel -> Model No. Menu Panel -> General -> Power Supply Menu Panel -> General -> Power Consumption Menu Panel -> General -> Ambient Operating Temperature	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections  • Connector: D-sub 9-pin (male), inch screw  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  2 ME  AV-HS60C3G  DC 12 V/0.54 A  (Supplied from AV-HS60C2/AV-HS60C4 using the supplied cable)  6.48 W  0 °C to 40 °C (32 °F to 104 °F)</dvi-d></menu>
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Control Panel -> Control Terminal -> Display Selector Switch Control Panel -> Control Terminal -> COM1 (M) Terminal Control Panel -> Control Terminal -> COM2 (RS-232) Terminal Control Panel -> Control Terminal -> GPI I/O Terminal  Control Panel -> Control Terminal -> GPI I/O Terminal  Control Panel -> Control Terminal -> ME Number Menu Panel -> Model No. Menu Panel -> General -> Power Supply Menu Panel -> General -> Power Consumption Menu Panel -> General -> Ambient	Switch for selecting <menu panel=""> terminal or <dvi-d> terminal  RS-422 Control Terminal  For master connection for controlling external devices  • Connector: D-sub 9-pin (female), inch screw  RS-232 Control Terminal  For external device control connections  • Connector: D-sub 9-pin (male), inch screw  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  2 ME  AV-HS60C3G  DC 12 V/0.54 A  (Supplied from AV-HS60C2/AV-HS60C4 using the supplied cable)  6.48 W  0 °C to 40 °C (32 °F to 104 °F)</dvi-d></menu>

Menu Panel -> General -> Weight	Approx. 1.7 kg (3.7 lbs.) (excluding accessories)
Menu Panel -> General -> Dimension	<b>ns</b> W 290 mm x H 177 mm x D 46.1 mm
	(11-13/32 inches x 6-31/32 inches x 1-13/16 inches)
	(excluding protrusions)
	4RU
Menu Panel -> Control Terminal ->	Used only for the Control Panel AV-HS60C2/AV-HS60C4
Control Panel Terminal	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 terminal of the
	Control Panel
	AV-HS60C2/AV-HS60C4. Set the display selector switch of the Control Panel AV-
	HS60C2/AV-HS60C4 to the <menu panel=""> terminal side.</menu>
Storage Module -> Model No.	AV-HS60D1G
Storage Module -> General -> Weigh	nt Approx. 7.0 g (0.3 oz.)
Storage Module -> General ->	H 29.85 mm x W 4.0 mm x D 50.8 mm
Dimensions	(1-3/16 inches x 5/32 inches x 2 inches)