

## HVS-6000/6000M

### HVS-3355OU/3355OUA Datasheet

#### 1. Specifications

##### HVS-6000/6000M basic specifications

Temperature	0°C to 40°C	
Humidity	30% to 90% (no condensation)	
Power	100 V - 240 V AC $\pm$ 10%, 50/60 Hz	
Consumption	[HVS-6000]	Standard: 950 W (at 100-120 V) 950 W (at 220-240 V) Full option: 1800 W (at 100-120 V) 1800 W (at 220-240 V)
	[HVS-6000M]	Standard: 873 W (at 100-120 V) 856 W (at 220-240 V) Full option: 930 W (at 100-120 V) 895 W (at 220-240 V)
Dimensions	[HVS-6000]	430 (W) x 500 (D) x 532 (H) mm 480 (W) (including rack mount brackets)
	[HVS-6000M]	430 (W) x 500 (D) x 310 (H) mm 480 (W) (including rack mount brackets)
Weight	[HVS-6000]	65 kg (With all options: 80 kg)
	[HVS-6000M]	45 kg (With all options: 47 kg)
Consumables (at 24-hour operation)	Power supply unit: Replace every 5 years. Cooling fans: Replace every 5 years. SSD: Replace every 5 years (which vary depending on usage environment).	

##### HVS-6000/6000M technical specifications

Number of M/Es	[HVS-6000]	Standard :	2M/E
		HVS-6000ME x 1:	3M/E
		HVS-6000ME x 2:	3M/E+DSK
		HVS-6000ME x 2 + HVS-6000ME4:	4M/E
	[HVS-6000M]		2M/E
Video format	UHD 4K: 2160p /59.94, 50 (Single Link 12G-SDI) Full HD: 1080p / 59.94, 50 (Level-A only) HD: 1080i / 59.94, 50 10-bit YCbCr 4:2:2		
Video input	12G-SDI: 12 Gbps, HD-SDI: 1.5 Gbps 75 $\Omega$ BNC		
Video input (option)	HVS-6000SDI 12G-SDI: 12 Gbps, HD-SDI: 1.5 Gbps 75 $\Omega$ BNC x 8		
Number of inputs	[HVS-6000]	Standard: 24, Max: 80	
	[HVS-6000M]	Standard: 24, Max: 32	
Video output	12G-SDI: 12 Gbps, HD-SDI: 1.5 Gbps 75 $\Omega$ BNC		
Video output (option)	HVS-6000SDO 12G-SDI: 12 Gbps, HD-SDI: 1.5 Gbps 75 $\Omega$ BNC x 8		
Number of outputs	[HVS-6000]	Standard: 24 (AUX 16), Max: 48 (included 32 auxiliaries)	
	[HVS-6000M]	24 (AUX 16)	
Signal processing	10-bit YCbCr Key: 4:2:2:4		
Reference input	75 $\Omega$ BNC x 1 w/ loop-through (Terminate with 75 $\Omega$ if not used.)		

System phase adjust	(Horizontal) -1/2H to +1/2H	
I/O delay	Minimum delay:	UHD 4K: 2H HD: 1H (depending on conditions)
	W/ FS:	0-1 frame + minimum delay
	W/ FS and DVE:	Interlace: 1-2 frames + minimum delay Progressive: 2-3 frames + minimum delay
Effects	Wipe patterns:	100 (W/ modifier)
	DVE patterns:	30 or more (W/ modifier)
	2D DVE: Std: 8 channels (1 channel per KEY, including DVE patterns) Max: 16 channels (in 4 M/E) 3D DVE: Std: 2 channels (1 channel per M/E BKGD, including DVE patterns) Max: 4 channels (in 4 M/E)	
Transition	Execution: Fader, AUTO or CUT button Type: MIX or WIPE (DVE and CG WIPE included)	
Still/Clip store	[HVS-6000] UHD 4K: 4 channels (W/ key), HD: 8 channels (W/ key) [HVS-6000M] UHD 4K: 2 channels (W/ key), HD: 4 channels (W/ key) Built-in RAM for up to 2,000 non-compressed video frames (Approx. 30 sec) Auto backup/resume	
KEY	[HVS-6000] Std: 8 channels (4 per M/E), Max. 16 channels [HVS-6000M] Std: 8 channels (4 per M/E) Bus key, Luminance key, Full key and Chroma key, Mask and Invert	
DSK (HVS-6000)	4 channels (4 keys and 4 backgrounds) Bus key, Luminance key and Full key, Mask	
Event memory buffers	Global: 100, Local: 100, Keyer: 8, Control panel: 10	
Macros	100 macros	
Interfaces		
LAN 1 (MAIN) LAN 2 (SUB)	100BASE-TX/1000BASE-T, RJ-45 x 2 For OU Control Unit and other device connection	
GPI IN	15-pin D-sub (female) x 1 (w/ inch screws) 12 inputs	
TALLY OUT	25-pin D-sub (female) x 1 (w/ inch screws) 23 outputs	
RS-422	9-pin D-sub (female) x 6 (w/ inch screws) For Tally Unit connection	
ALARM	9-pin D-sub (female) x 1 (w/ inch screws) Fan and power alarms, Relay contact output	

#### HVS-6000 options

HVS-6000ME	M/E / DSK expansion card (M/E expansion if installed on M/E slot and DSK expansion if installed on OPTION slot)
HVS-6000PSM	Power Supply Units (UNIT 3/4) for power redundancy
HVS-6000SDI	12G-SDI Input expansion card
HVS-6000SDI-EX	12G-SDI Input expansion card (for I/O slots)
HVS-6000SDO	12G-SDI Output expansion card
HVS-6000SDOC	Down-converter software license for each output
HVS-6000ME4	4M/E expansion with 2 HVS-6000ME options with this license

### HVS-6000M options

HVS-6000PSM	Power Supply Units for power redundancy
HVS-6000SDI	12G-SDI Input expansion card

### HVS-6000/6000M external options

HVS-AUX16A/32A/64A/16B/16C/16D	Auxiliary Unit (Ethernet LAN connection)
HVS-TALR20/32	Tally Control Unit (Relay type) (Hanabi Series Option) (RS-422 connection)
HVS-TALOC20/32	Tally Control Unit (Open Collector type) (Hanabi Series Option) (RS-422 connection)

### Accessories

AC Cord, Rack Mount Brackets, HVS-6000 CD-ROM, Quick Setup Guide

### HVS-3355OU/OUA basic specifications

Temperature	0°C to 40°C
Humidity	30% to 90% (no condensation)
Consumption	150 W (if in normal configuration, 35 buttons and 3 M/Es)
Power	[OU Control Unit] AC 100 V - 240 V ±10%, 50/60 Hz [Touch Panel Unit] DC 12 V or DC 48 V [LINE Unit] DC 12 V or DC 48 V [AUX Bus Unit] DC 12 V or DC 48 V
Dimensions	1300 (W) x 528(D) x 68 (H) mm (LINE Unit x 3, AUX Unit x 1, plane placement)  [OU Control Unit] 430 (W) x 300 (D) x 88 (H) mm 480 (W) (including rack mount brackets) [Touch Panel Unit] 374 (W) x 58 (D) x 221 (H) mm [LINE Unit] 1300 (W) x 132 (D) x 68 (H) mm [AUX Bus Unit] 777 (W) x 132 (D) x 68 (H) mm
Weight	[OU Control Unit] 5 kg (With redundant power supply: 6 kg) [Touch Panel Unit] 3 kg [LINE Unit] 8 kg [AUX Bus Unit] 5 kg
Consumables (at 24-hour operation)	[OU Control Unit] Power supply unit: Replace every 5 years. [Touch Panel Unit] SBC battery: Replace every 3 years.

### HVS-3355OU/OUA technical specifications (OU Control Unit)

LAN port	RJ-45 x 7 For OU component connection and external device connection
TO TOUCH PANEL UNIT	9-pin D-sub (female) x 1 (w/ inch screws)
GPI IN/TALLY OUT	25-pin D-sub (female) x 1 (w/ inch screws) 12 inputs /12 outputs
DC OUTPUT (OUT1)	Cannon 3-pin XLR (female) x 1 (DC 48 V distributed output)

**HVS-3355OU/OUA technical specifications (Touch Panel Unit)**

Display	TFT LCD, 12.1-inch, w/ multi-touch RJ-45 x 7 For OU Control Unit and other device connection
SBC	Windows 7 Embedded, Windows IoT
TO CONTROL UNIT	RS-422 9-pin D-sub (female) x 1 (for OU Control Unit connection)
EXT PC block	
HDMI IN	Type-A connector x 1
SW CONTROL	USB Type-B connector x 1
PANEL SENSOR	USB Type-B connector x 1
USB1, USB2	USB Type-B connector x 2
LAN 2 (SUB)	RJ-45 x 2 (for OU control panel connection)
USB port	USB Type-A connector x 4
HDMI OUT	Type-A connector x 1
DC 12 V IN	AC adapter input
DC 48 V IN	Cannon 3-pin XLR x 1 (Power supplied from OU Control Unit)

**HVS-3355OU/OUA technical specifications (LINE Unit)**

Bus button	35 (switched by SEL) x 2 rows (for key video, macro and user) 35 (4 levels) x 2 rows (for M/E background video source)
Control Unit	RJ-45 x 1
Ethernet	RJ-45 x 1 (for OU control panel connection)
DC 12 V IN	AC adapter input
DC 48 V IN DC 48 V OUT	Cannon 3-pin XLR x 1 (Supplied from OU Control Unit in cascade connection) Cannon 3-pin XLR x 1 (Supplied from OU Control Unit in cascade connection)

**HVS-3355OU/OUA technical specifications (AUX Bus Unit)**

Bus Button	35 (switched by SEL) x 2 rows (for AUX bus, DSK bus, MACRO and USER) 35 (4 levels) x 2 rows (for video source)
Control Unit	RJ-45 x 1
Ethernet	RJ-45 x 1 (for OU Control Unit connection)
DC 12 V IN	AC adapter input
DC 48 V IN DC 48 V OUT	Cannon 3-pin XLR x 1 (Supplied from OU Control Unit in cascade connection) Cannon 3-pin XLR x 1 (Supplied from OU control Unit in cascade connection)

**HVS-3355OU/OUA option**

HVS-3355PSO	Power Supply Unit for OU (Control Unit)'s power redundancy
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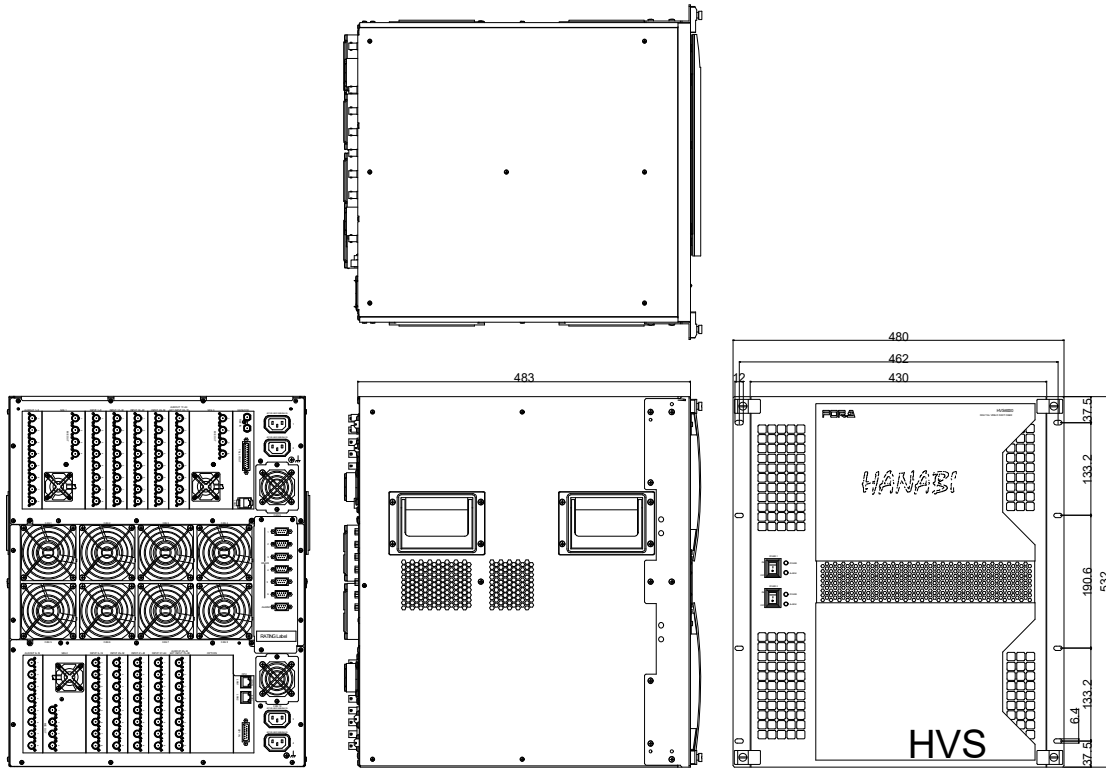
**Accessories**

LAN cable, RS-422 cable, AC power cable, DC canon cable, Rack Mount Brackets

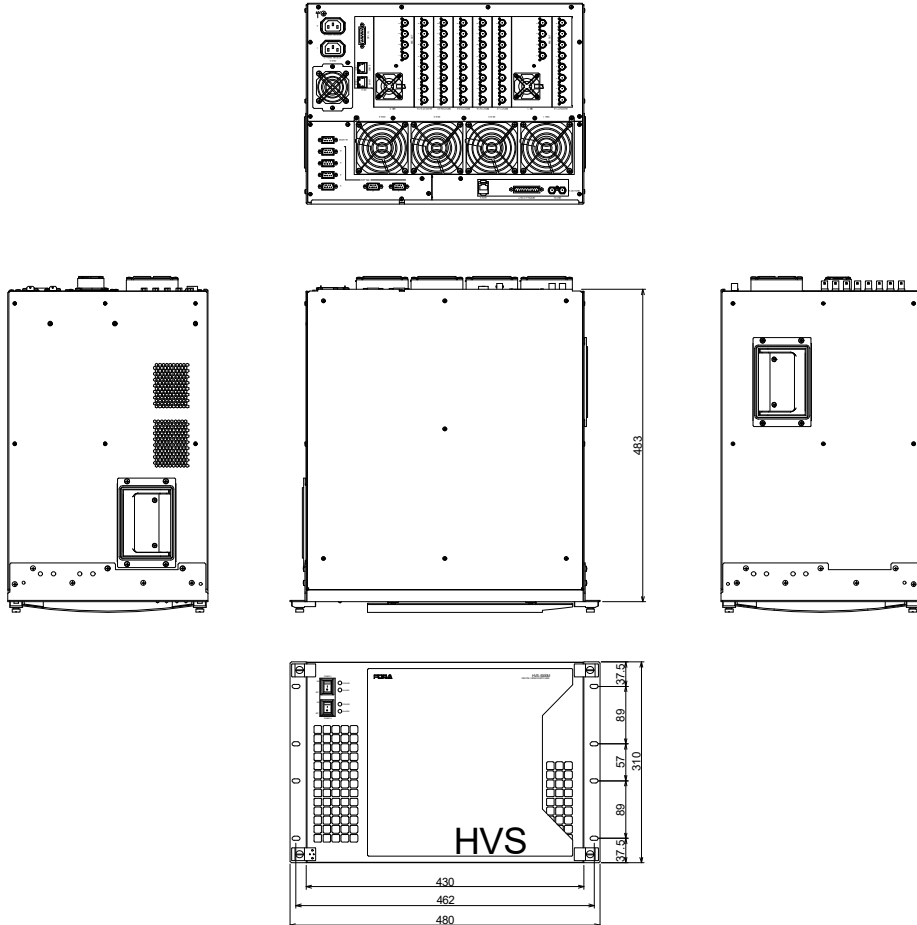
**2. External Dimensions**

(All dimensions in mm.)

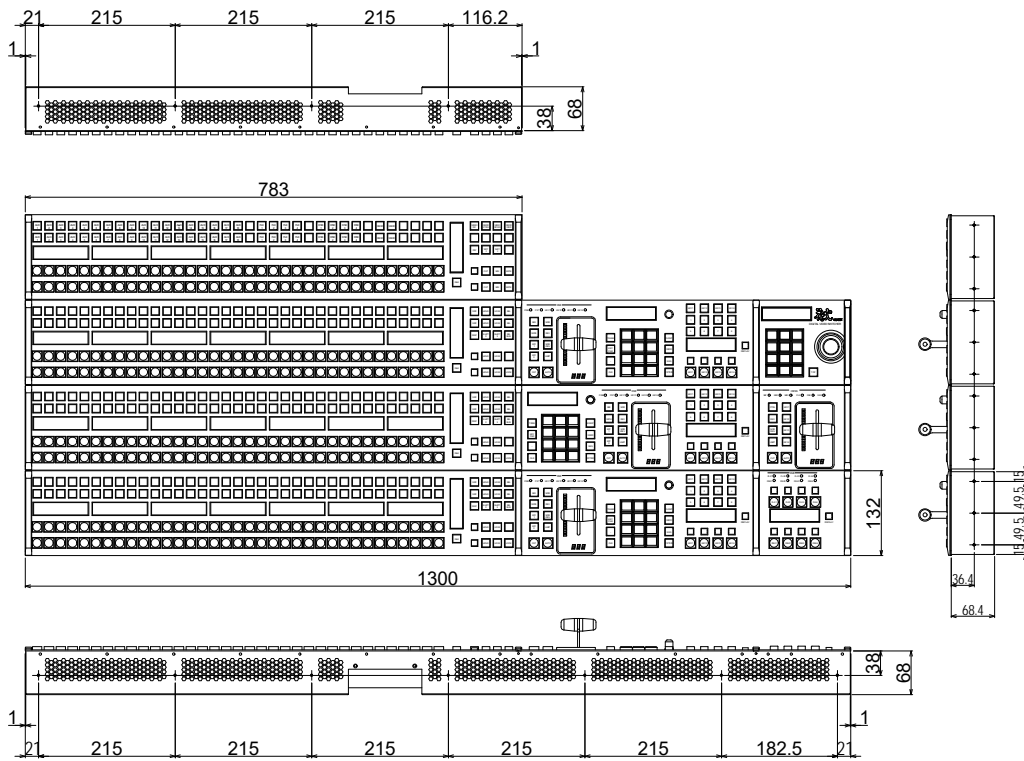
**HVS-6000**



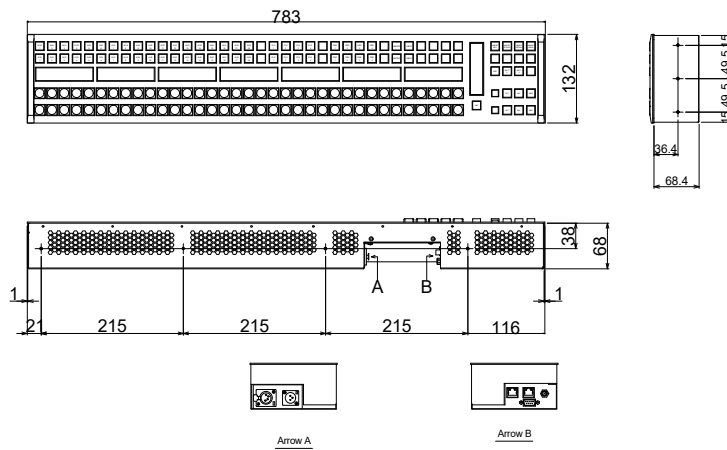
**HVS-6000M**



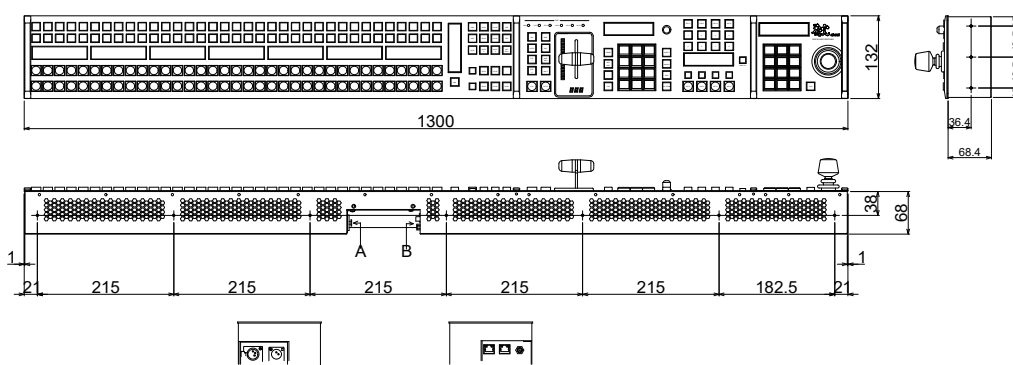
**HVS-3355OU/OUA Control Panel**



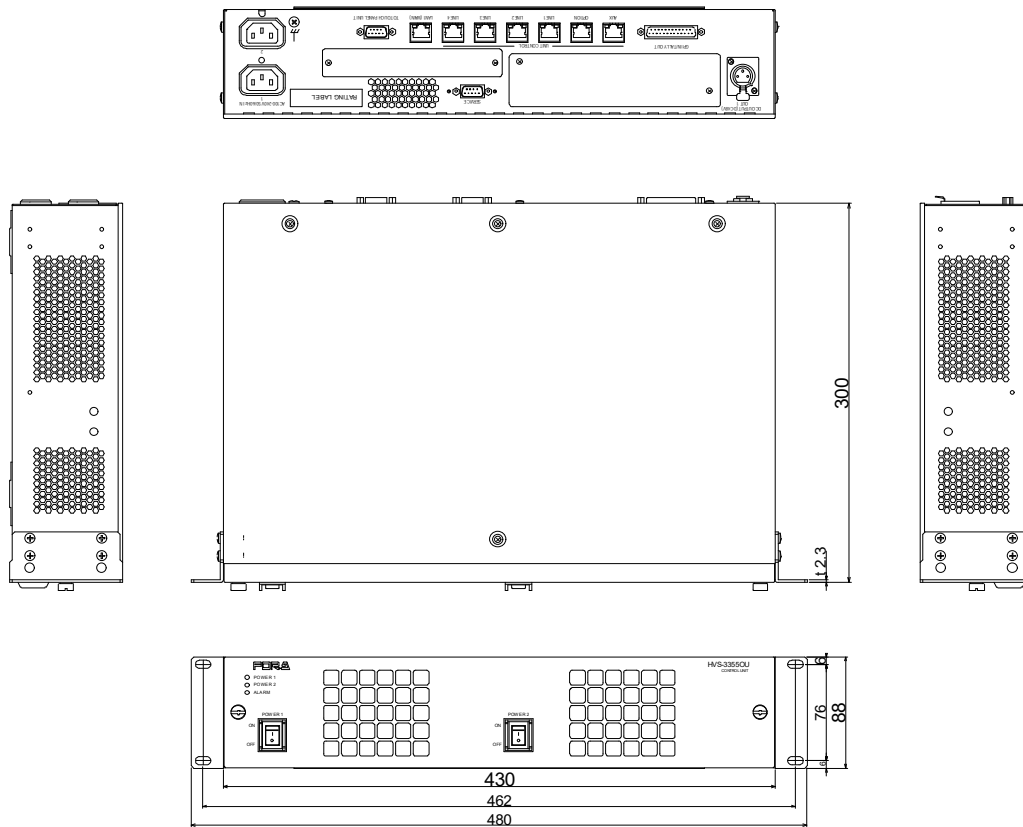
**AUX Bus Unit**



**LINE Unit**



**Control Unit**



**Touch Panel Unit**

