Specifications

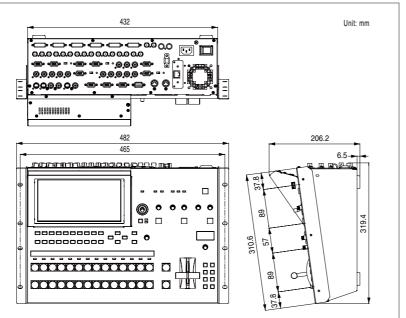
Video Processing			Output Connectors	
Processing		4:2:2 (Y:Pb:Pr), 10 bit	Analog SD	S-Video (4 pin mini DIN type) x 1 Composite (BNC type) x 1
Supported Formats	SD	480/59.94i, 576/50i, 480/59.94p, 576/50p	Analog HD (Component)	Y/Pb/Pr (BNC type) x 1
	HD	1080/59.94p, 1080/50p 1080/59.94i, 1080/50i 720/59.94p, 720/50p		D-Sub 15 pin type x 1 * D-Sub 15 pin type : combined use with analog RGB
			Analog RGB	D-Sub 15 pin type x 1 * Combined use with analog HD (Component)
	RGB	640 x 480/60Hz, 800 x 600/60Hz, 1024 x 768/60Hz, 1280 x 768/60Hz, 1280 x 1024/60Hz, 1600 x 1200/60Hz, 1920 x 1200/60Hz * Confirms to VESA DMT Ver 1.0 Revision 10 * Reduced blanking to be applied to 1920 x 1200	DVI-D	Single Link Type x 2
			HD/SD-SDI	BNC type x 2 * Conforms to SMPTE 259M-C, SMPTE 292M
	STILL	ВМР	Other Connectors	
Input/Output Level and Impedance			TALLY	D-Sub 15 pin type x 3 (200 mA, Open Collector type)
Composite		1.0 Vp-p, 75 ohms	Remote	MIDI (IN, OUT/THRU) RS-422 (D-Sub 9 pin type) x 1
S-Video		Luminance Signal : 1.0 Vp-p, 75 ohms Chrominance Signal : 0.286 Vp-p, 75 ohms (NTSC) 0.3 Vp-p, 75 ohms (PAL)	REFERENCE	BNC type (IN, THRU) * Black Burst, Bi-Level, Tri-Level Sync
			USB port (host)	A type x 1 for USB memory
Analog HD/RGB 0.7 Vp-p, 75 ohms (H, V : 5VTTL)			Effects	
Input Connectors		* Loop thru connectors are equipped for all inputs	Transition	Mix, FAM, NAM, Wipe (9 patterns)
Analog SD		S-Video (4 pin mini DIN type) x 1 Composite (BNC type) x 1 * Select one from menu	Composition	PinP, Chroma Key, Luminance Key, Split, DSK
			Others	Output Fade, Edge Blending, Multi Screen (Video Wall)
Analog HD (Component)		Y/Pb/Pr (BNC type) x 2 D-Sub 15 pin type x 2 * Combined use with analoo RGB	Others	
			Power Supply	AC117 V, 220 V, 230 V, 240 V (50/60Hz)
Analog RGB			Power Consumption	90 W
		R/G/B/H/V (BNC type) x 2 D-Sub 15 pin type x 2 * Combined use with analog HD (Component)	Dimensions	482 (W) x 319.4 (D) x 206.2 (H) mm 19 (W) x 12-5/8 (D) x 8-1/8 (H) inches
DVI-D		Single Link Type x 2	Weight	8.1kg 17 lbs 14 oz
HD/SD-SDI		BNC type x 8 * Conforms to SMPTE 259M-C, SMPTE 292M	Accessories	Power Cord, Owner's Manual

Rackmount Setup





Dimensions



Using V-LINK, musicians can "play" video from their electronic instrument when used with EDIROL video products. With V-LINK, musicians have a powerful interface for realtime V-LINK audio and video integration.

Ensuring high quality while protecting the environment: Roland is ISO9001 and ISO14001 certified

At Roland, several group companies have obtained ISO9001 certification. In addition, in January 1999, Roland also received ISO14001 international environmental management system certification. We're actively several group companies have obtained robustor certification, in calculary 1955, robust also rever too minitain harmagement system endities and actively several coor metal management system constraints and actively several coor metal management system coor metal management system constraints and terms. They provide different categories of certification is a product quality certification for products that undergo a certain level of quality control from the design stage to the after service stage; ISO14001 Series certification is for environment-related standards. Each member of the Roland Group is striving to obtain certification.)



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V-1600HC MULTI-FORMAT VIDEO SWITCHER





An All-In-One Multi-Channel, **Multi-Format Live Video Switcher**









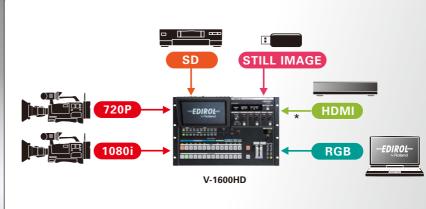
The All-in-One Solution for Any Live Event



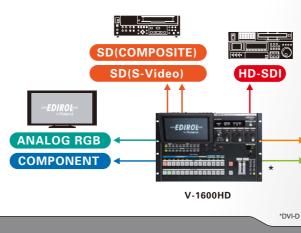
Multi-Format Multiple input and output formats with

no need to purchase extra cards.

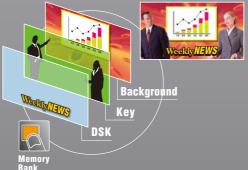
Multiple Video Input Formats



Multiple Video Outputs



controlled using simple operations. 64 Memory banks provide storage and instant recall of setup parameters.



Connect, seamlessly mix and output a variety of video sources such as cameras, VTR's, RGB Computer Sources, Blu-ray/DVD, and high-end SD/HD-SDI video sources. The V-1600HD's all-in-one design combined with professional quality and features makes it the ideal choice for live video production.

DSK, Key Composition, and PinP are





*DVI-D - HDMI adaptor is needed

8 HD/SD-SDI INPUTS

4 RGB/COMPONENT INPUTS

2 DVI-D/HDMI INPUTS

2 SD INPUTS

Equipped with HD/SD SDI for professional video equipment as well as DVI-D for directly connecting PC/Mac. Also included is analog RGB, Component, S-Video and Composite.

2 HD/SD-SDI OUTPUTS

2 RGB/COMPONENT OUTPUTS

2 DVI-D/HDMI OUTPUTS

2 SD OUTPUTS

DVI-D HDMI

Output digital/analog HD resolution while down-converting at the same time. Display to a primary screen with secondary feed to recording or broadcast. Spread output across two screens including ability to edge-blend.

*DVI-D - HDMI adaptor is needed

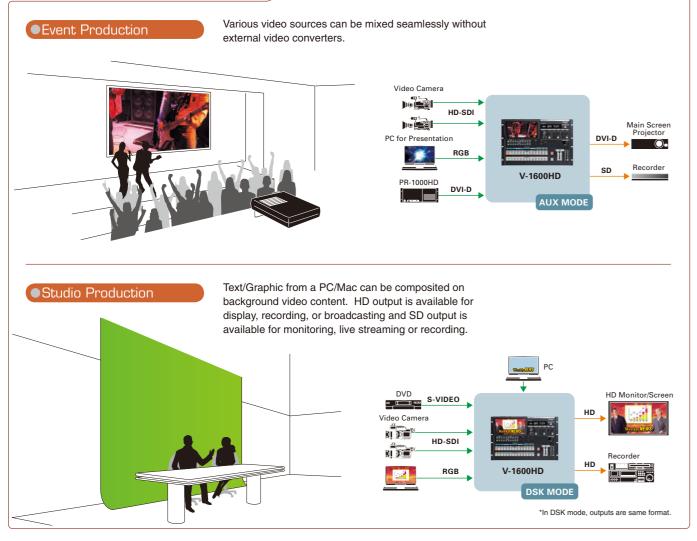


Multi-Format Solution for the HD Generation

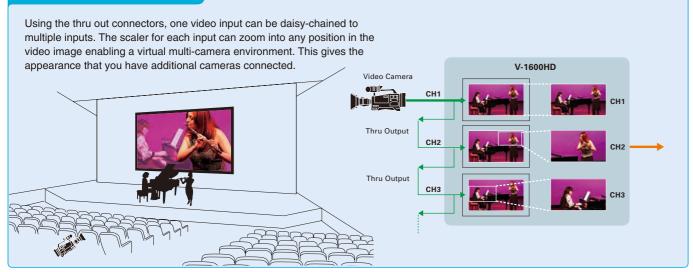
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HD video sources are now a common video format. The need to also mix in other video sources and formats makes the V-1600HD a necessary component for today's live video production.

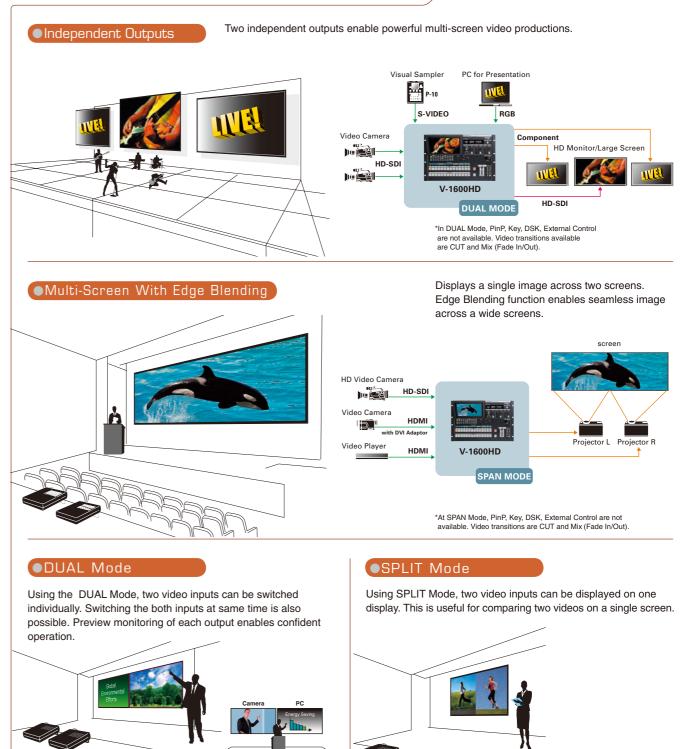
LIVE PRODUCTION

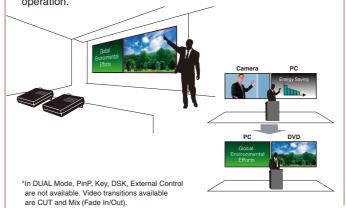


MULTI-ZOOM



MULTI-SCREEN SOLUTIONS

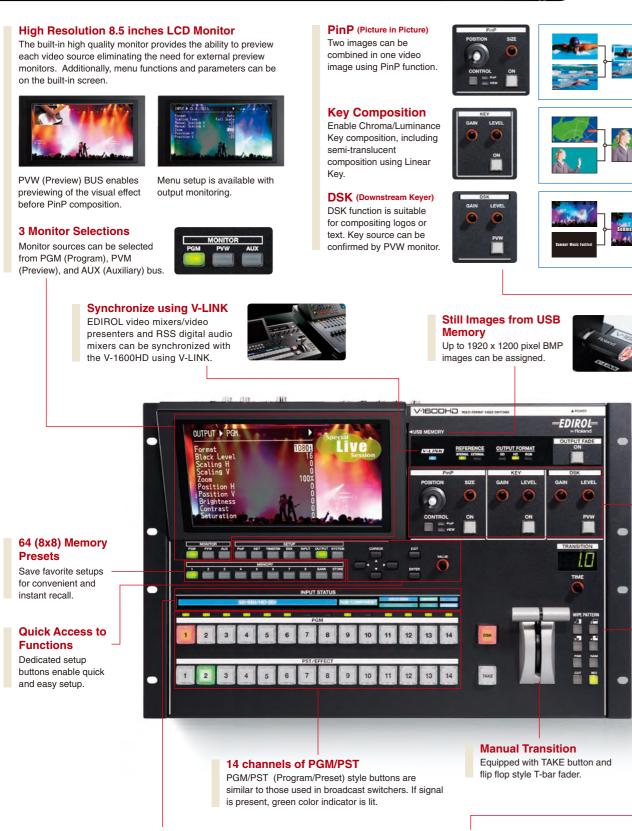






*In SPLIT Mode, PinP, Key, DSK, External Control are not available. Video transitions available are CUT and Mix (Fade In/Out).

Everything You Need in One Unit



Switchable Inputs

Input format types are switchable on Ch 11-14. The selected format is indicated on the backlit input status indicator.

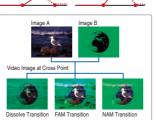


Various Transition Effects

Includes Dissolves, NAM, and FAM mixing types. 4 types of wipe patterns are also included

FAM (Full Additive Mix) transition: Images will transition with the luminance level held steady. NAM (Non-Additive Mix) transition: The two

images will be compared, and the pixels that have a higher brightness level will be shown while the images are switched.



MULTI-INPUT



HD/SD-SDI Input x 8

HD-SDI, SD-SDI is recognized automatically. If output setup and aspect ratios are different from input, you can choose letterbox, crop or fill options. edded audio is not ava





DVI-D/HDMI Input x 2

Four DVI-D inputs are supplied. HDMI* signal can be input using HDMI to DVI adapter. *Does not supports HDCP and HDMI 1.3 or later. Embedded audio is not availabl







MULTI-OUTPUT



Supports HD-SDI or SD-SDI output formats. Output 2 is assignable one signal source from PGM/PVW/AUX.





DVI-D/HDMI Output x 2

Connect a projector or monitor that supports a digital connection. HDMI output is possible using an HDMI to DVI-D adapter. Output 2 is assignable one signal source from PGM/PVW/AUX.



CONTROL INTERFACE

REFERENCE Input Reference input is available for synchronizing external equipment.



RS-422 REMOTE Connector Controllable using RS-422 via computer software





RGB/COMPONENT Input x 4

Four D-Sub 15-pin connectors for analog RGB input, including two switchable component connectors. Also supports RGBHV.



Composite input (BNC type) and S-Video (Y/C)



* All inputs have individual thru out connectors for flexible system configuration



RGB/COMPONENT Output x 2

PC monitor or Projector can be connected from analog RGB or component connector An output source is assignable from PGM/PVW/AUX. *Output format depends on output mod





SD video can be output from the AUX bus using built-in scaler. An output source is assignable from PGM/PVW/AUX. *Output format depends on output mode.



TALLY Output TALLY signal is provided for camera or external monitors.

MIDI Connector

Control the V-1600HD via any MIDI device or any V-LINK enabled product.

