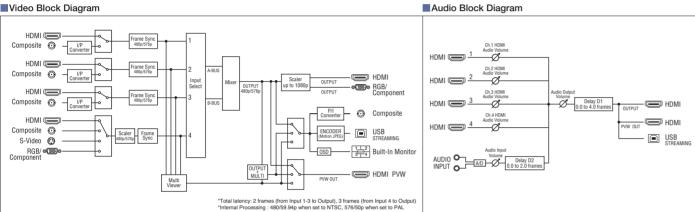
Video Processing	4:2:2 (Y/Pb/Pr), 8 bits (Internal Processing : 480/59.94p when set to NTSC, 576/50p when set to PAL)	Input Connectors	Video	HDMI: Type A (19 pins) x 4 (INPUT 1 4) RGB/Component: HD DB-15 type x 1(INPUT 4) Composite: BNC type x 4 (INPUT 1 4) S-Video: 4-pin mini DN type x 1 (INPUT 4)
Audio Processing	Sampling Rate : 24 bits/48 kHz, 2 ch			
Input Formats	HDMI Video (INPUT 1 3) : 480/59.94p (when set to NTSC), 576/50p (when set to PAL) HDMI and Component Video (INPUT 4) :480/59.94t, 480/59.94p, 720/59.94p, 1080/59.94t, 1080/59.94b (when set to NTSC), 576/50b, 720/56/50p, 720/59.94p, 1080/50p (when set to PAL) HDMI Audio (INPUT 1 4) : Linear PCM, 24 bits/48 kHz, 2 ch RGB (INPUT 4) : 640 x 480/60Hz, 800 x 600/60Hz, 1024 x 768/60Hz, 1280 x 768/60Hz, 1280 x 1024/60Hz, 1366 x 768/60Hz, 1400 x 1050/60Hz, 1600 x 1200/60Hz, 1920 x 1200/60Hz 'The refresh rate is the maximum value of each resolution. *Conforms to VESA DMT Version 1.0 Revision 11. *1920 x 1200/60Hz, : Reduced blenking Composite Video (INPUT 1 4) : NTSC, PAL S-Video (INPUT 4) : NTSC, PAL		Audio	RCA-pin type x 1pair (AUDIO IN)
		Output Connectors	Final Output	HDMI : Type A (19 pins) x 1 (OUTPUT) RGB/Component : HD DB-15 type x 1 (OUTPUT) Composite : BNC type x 1 (OUTPUT)
			Preview Output	HDMI : Type A (19 pins) x 1 (PVW OUT)
		Other Connectors	MIDI : 5 pins DIN type x 2 (IN, OUT/THRU) USB : B type x 1 (for streaming and remote control)	
		Signal Level Impedance	RGB/Component	Signal Level: 1.0 Vp-p (luminance), 0.7 Vp-p (chroma) Impedance: 75 ohms
			Composite	Signal Level : 1.0 Vp-p Impedance : 75 ohms
Output Formats	HDMI and RGBI/Component Video (OUTPUT): 480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/59p, 1080/59.94i, 1080/50; 1080/59.94p, 1080/59.94p, 1080/59.94p, 1080/50p 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, 1366 x 768, 1400 x 1050, 1600 x 1200, 1920 x 1200 *The output format of HDMI and RGBI/Component is always the same. When an interfaced format is selected, component signal is output from the RGBI/COMPONENT connector. When a non-interlaced format is selected, RGB signal is output from the RGBI/COMPONENT connector. The refresh rates of RGB format is 60 Hz when set to NTSC, 75 Hz when set to PAL (excluding 1600 x 1200 and 1920 x 1200. The refresh rate of these 2 is 75 Hz when set to PAL excluding 1800 x 1200 and 1920 x 1200. The refresh rate of these 2 is 75 Hz when set to PAL (excluding 1920 x 1200/60Hz : Reduced blanking HDMI Audio (OUTPUT) : Linear PCM, 24 bits/48 kHz, 2 ch Composite Video (PVW OUT) : Linear PCM, 24 bits/48 kHz, 2 ch LPreview Audio (PVW OUT) : Linear PCM, 24 bits/48 kHz, 2 ch USB Video : 220 x 480 when set to NSC, 720 x 576 when set to PAL, Motion JPEG USB Audio : Linear PCM, 16 bits/48 kHz, 2 ch		S-Video	Signal Level : 1.0 Vp-p Impedance : 75 ohms
			Analog Audio	Nominal Input Level : - 10 dBu Maximum Input Level : + 8 dBu Impedance : 15 k ohms
		Display	Graphic Color LCD, 320 x 240 dots, touch panel	
		Video Effects	Transition : Mix, Cut, Wipe (259 patterns) Composition/Filter : Picture in Picture, Luminance Key, Chroma Key, Strobe, Negative, Colorize, Feedback, Emboss, Multi, Mirror etc. (148 types) Others : Output Fade, Freeze	
		Power Supply	AC adaptor	
		Current Draw	2.0 A	
		Dimensions	225 (W) x 296 (D) x 105 (H) mm / 8-7/8 (W) x 11-11/16 (D) x 4-3/16 (H) inches	
		Weight	2.6 kg / 5 lbs 12 oz (excl. AC adaptor)	
		Accessories	AC adaptor, Power Cord, RCA - BNC conversion plug x 2, Owner's Manual	

■Video Block Diagram





Video Capture for VR

Video Capture for VR is application software that captures video and audio signals output from the V-4EX and saves them to files on your PC cted to the V-4EX via USB.

Free download from www.rolandsystemsgroup.net.

Related Items

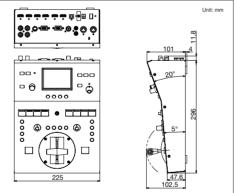


V-40HD



rtable Audio and leo Mixer with USB Streamir

Dimensions



Roland

Roland Systems Group, a member of the worldwide group of Roland companies, is dedicated to the support of audio and video professionals demanding excellence in both performance and system design. Through the development and support of video and audio products, we endeavor to improve workflow and maximize creative possibilities



MIDI Visual Control is an internationally-used recommended practice that was added to the MIDI specification so that visual expression could be linked with musical performance. Video equipment that is compatible with MIDI Visual Control can be connected to electronic musical instruments via MIDI in order to control video equipment in tandem with a performance.



Using V-LINK, musicians can "play" video from their electronic instrument when used with Roland video products. With V-LINK, musicians have a powerful interface for realtime 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 seeking ways to maintain harmony with the environment. (ISO=International Standardization Organization: an organization for the promotion of standardization of international units and terms. They provide different categories of certification: ISO9001 Series 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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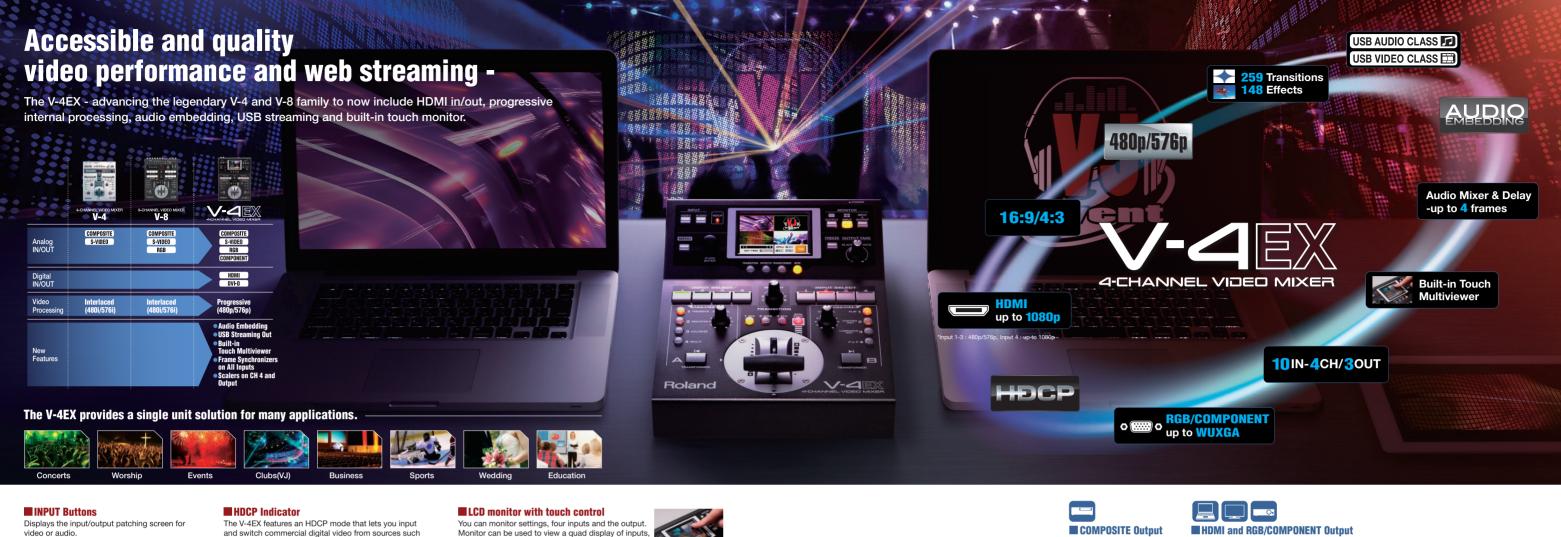






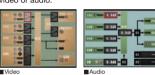








Displays the input/output patching screen for



■ MENU Button and VALUE Dial

Use this to bring up the menu screen to select and control various parameters.

■ Setup Buttons

Use these buttons to access



■ MEMORY Dial

Select one of eight memory settings of the V-4EX instantly by turning this dial.

■ Transition Buttons and **BPM SYNC Button**

Select the type of transition effects. When BPM SYNC is turned on, the V-4EX automatically switches between the A and B bus in time to the BPM



■ Transformer

Instantly toggle between the A and B images without using the video fader.

■ Video Fader

The T-Bar video fader allows intuitive transitions between the A and B buses. You can change the T-bar orientation from up/down to left/right- your preference.

The V-4EX features an HDCP mode that lets you input and switch commercial digital video from sources such as Blu-ray Discs or game consoles encoded using HDCP digital copyright management technology.

TRANSITION EFFECTS TRANSFORMER BPM

0000

3 4 5 6 2 7 8

0 0

1 MIX 2 WIPE 3 EFX

VIDEO AUDIO

VALUE

(PUSH) ENTER

2 NEGATIVE =

3 COLORIZE

4 MULTI

Roland

MENU

You can monitor settings, four inputs and the output. Monitor can be used to view a guad display of inputs. program out or combination quad view with program out. You can select either 16:9 or 4:3 as the aspect

INPUT

REEZE OUTPUT FADE

EFFECTS

FLIP 1

CHROMA 2

PinP4

/-4ex

B



MONITOR Buttons

These control the view mode of the

OUTPUT FADE Dial

Apply fade-to-white or fade-to-black to the final output.

FREEZE Button

This freezes the final output. It lights up while the still video is being output.

■ Input Selectors

Select the input source for A and B busses. Each input has a frame synchronizer so hitting any button ensures a glitch-free image switch

■ Control Dials

This changes (move up to previous line) the amount of effect applied to the video on A/B-busses in a smooth and continuous manner.

■ Effect Buttons

These customizable buttons apply video effects (filter/composition) to inputs on A/B busses.

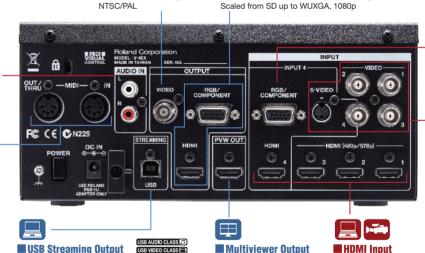


AUDIO Input

The V-4EX is equipped with inputs for analog audio equipment. This enables you to embed analog audio in the HDMI video outputs and USB streaming output.

■ MIDI CONTROL

You can use MIDI to interlink the V-4EX with other products including the Roland V-Mixing system and even another V-4EX/V-8.



USB video/audio class device for webstreaming

■ Multiviewer Output 480p/576p

IN 1-3: 480p/576p. IN 4: Up to 1080p

*For details about supported formats, refer to the specifications on the back cover

RGB/COMPONENT Input

NTSC/PAL

COMPOSITE Input

S-VIDEO Input

■ Application sample

0 HDMI Camera

M-200i TINDIA Connect the V-4EX to a V-Mixer console to achieve a true "audio follows video" solution. When you take a video source live, you can have the audio level instantly recalled.

or recording with a PC/Mac.