Multi-format capability, backlit buttons and straightforward panel layout brings simplicity to operation



Transition & Video Fader (SD)

Large backlit buttons enable easy and intuitive operation of the 4 S-Video or composite AUTO button tr type of Transitio output to be used independently if so desired. Custom wipe particular or the section includes a program of the section incl

SD Channel Select Buttons Yellow Channel is selected on current Bus (Program) Green Channel is selected on opposite Bus (Preview) Off Channel is not selected Bilnking PinP or Keyer is in use

Up to 4 SD Inputs

Mix/switch SD section images on the A-Bus and B-Bus with the Video Fader. The AUTO button transits between A-B in the duration specified on the TIME dial. The type of Transition is selectable from Cut, Dissolve (MIX) or wipe (6 patterns). Custom wipe parameters can be saved.

 CUT
 Transit A-B with cut
 Transit when video fader reaches center

 MIX
 Transit with dissolve
 Mix images according to fader position

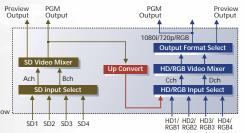
 WIPE
 Transit with wipe
 Wipe images according to fader position

	e (o parterns).
Wipe Patterns	
Horizontal	Vertical Open
A + A + B	A + A + B
Vertical	Box
A + R + B	A + B + B
Horizontal Open	Cross
	A + B + B

Up to 4 HD/RGB Inputs

The HD/RGB section enables mixing and switching of up to 4 inputs from HD video devices (1080i or 720p, HD component) or RGB signals from computer (from VGA to SXGA). The HD/RGB section can be used as an independent mixer or can also take the result of the SD section as an up-converted HD/RGB source.

Signal Flo



■ PANEL PRESETS

Memorize and save up to 15 setups to allow instant, single button recall of any mixer configuration. Menu function allows copying and exchanging presets.

■ OUTPUT FADE Button

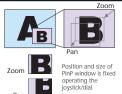
Automatically fade out the master output as set on the TIME dial (0 to 4 seconds). The on, off or fading status is shown via the backlight. Adjust the fade color using the setup menu.

output status				
Blinking	Fading out			
Lit	Output black or white			
Turned off	Image from source device is output			

■ PinP & Pan/Zoom

Control of the position, size, pan and zoom of the picture-in-picture window via position joystick and size dial. The LOCK button disables the joystick to secure the position/pan of the window on the screen. PinP within the HD/RGB section can be used with the keyer simultaneously.





Example of PinP & Keyer



■ Keyer (HD/RGB)

As with the SD Keyer, composite high resolution images on C-Bus and D-Bus with Chroma Key (blue/green) or Luminance Key (black/white). Key with high resolution images and graphics from computer instead of a dedicated graphic/title generator as a lower cost alternative.

Example of PinP & Keyer



TRANSITION buttons (HD/RGB)

As in the SD section, a variety of transition patterns can be applied with HD/RGB sources. Use SD and HD/RGB transitions simultaneously. Example of Wipe

Background Image Background Background

- HD/RGB Input Section

QU

Up to 4 source devices can	HD/RGB input parameters			
be connected via BNC or	Format Auto Detect	On/Off of Input Format Auto Detection	Brightness	Adjust brightness of input image
15-pin D-sub for direct	Input Format	Selection of input format	Contrast	Adjust contrast of input image
connection of HD	Pre Scaling Mode	On/Off of scaling the input image	Saturation	Adjust saturation of input image
component or computer.	Manual Pre Scaling	Manual scaling of the input image	Red	Adjust red level of input image
	Scaling Type	Input image method of scaling	Green	Adjust green level of input image
For any input, the	Manual X Scale	Adjust horizontal scaling	Blue	Adjust blue level of input image
connectors not being used	Manual Y Scale	Adjust vertical scaling	Frequency	Micro adjust sampling frequency
for the source input can be	X Position	Adjust position of horizontal starting point	Phase	Micro adjust sampling phase
used as thru output.	Y Position	Adjust position of vertical starting point		

-SD Output Section

Resultant mix within the SD section is output from the BNC terminal (composite) and S-Video terminal. The SD Preview Output also shows the On-Screen Menu.

Preview Monitor

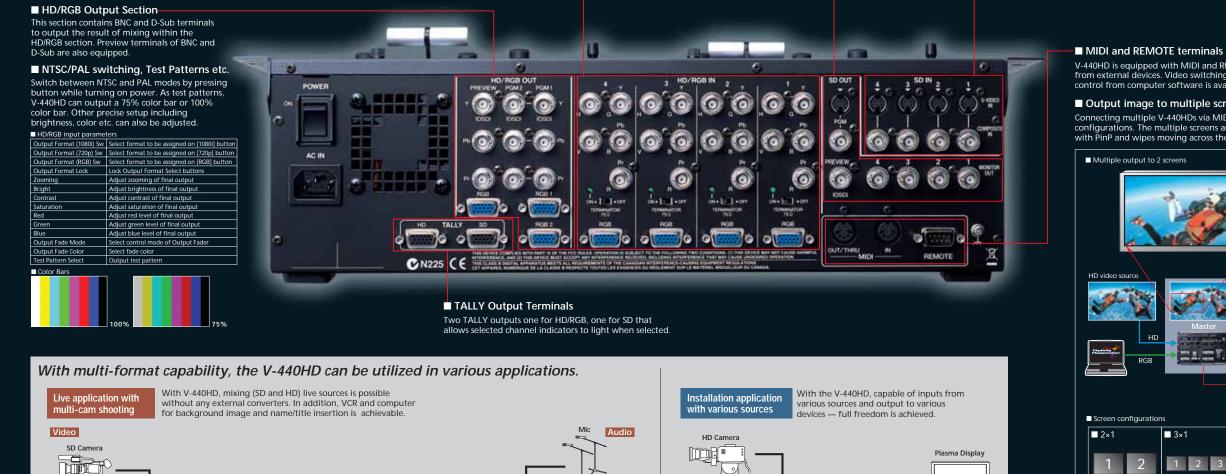
-SD Input Section

terminals (composite) or S-Video terminals. Source signals can be previewed via the Monitor Out BNC terminals. HD/RGB input parameters SD Input Select Select S-Video or Composite as priority SD input
 SD Brightness
 Adjust brightness of input image

 SD contrast
 Adjust contrast of input image

 SD Saturation
 Adjust saturation of input image

 SD Hue
 Adjust hue of input image



HD VCR SD Camer Digital Piano 0. in the second second Audio Mixe HD Camera 00::.... Source Pr Drum SD VCR DV-7 DL Series 800000 Ш. <u></u>"6 Guiter Effects Proces SD VIDEO SD VCR AUDIC V-440HD _____ □∘፡፡፡፡ □] [o 🗆 Audio Delay line SD VCI HD SDI PR Series Video Presenter AUDIO HD Analog/HD SDI HD VCF V-440HD ••0

Version 2.0 software for the V-440HD Multi-Format Video Mixer adds 20 new features that provide additional operational benefits.

Flip Flop mode allows your choice of switching style



Select the input channel you would like to cue on PST side. The image is output on the Preview monitor. Just press AUTO button to send the signal to Program output. Version 2.0 software can disable the input selector where

no input signal is detected. Choose from a variety of colors to backlight the LED input buttons

Auto detection of RGB input format and wider variation of RGB outputs. The RGB inputs formats are detected automatically. This enables rapid replacement of multiple computers to one input. 1366x 768 (WXGA) resolution is now supported as an output format enabling high quality native support of most mid-sized LCD panels

Expansion of Menu and Panel Preset functions Recall the default value of each and every parameter. Convenient for instant recall of input parameter, color settings etc. Double-click any button for instant selection of related menu. Fade to black between memory presets.



The aspect ratio for a PinP image (HD/RGB) can be set regardless of the aspect ratio of the source image Master output fade function can optionally effect the SD output as well

Unifies multiple types of inputs into a single output. Extremely smooth and intuitive operation. Highly precise Input/Output setup and Effects. The video mixer for a new generation of users.

Screen1 X Size

Screen1 Y Size

Screen1 Y Positi Screen2 X Size

Screen2 Y Size

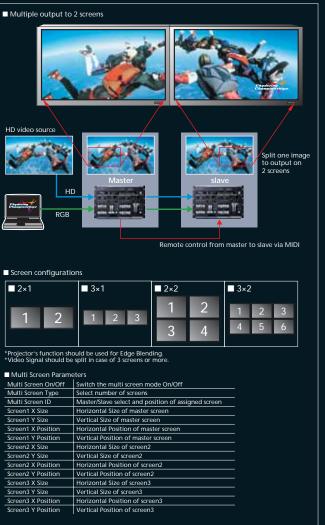


Up to 4 SD sources can be connected with BNC

V-440HD is equipped with MIDI and REMOTE terminals for controlling from external devices. Video switching, synchronized with music or control from computer software is available with these terminals

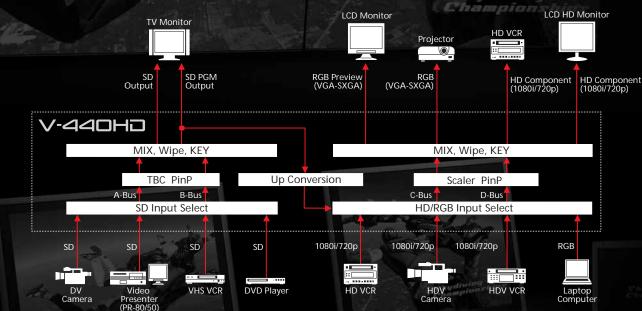
■ Output image to multiple screens from multiple V-440HD units

Connecting multiple V-440HDs via MIDI allows easy setup of multiscreen configurations. The multiple screens are treated as one unified surface with PinP and wipes moving across the screens



With capability to input 4 SD video sources and 4 HD or RGB video sources, the V-440HD enables seamless mixing and switching of multi-format video signals. With a single unit allowing images with different aspect ratios (16:9 or 4:3)*, the V-440HD can also be used as an independent SD mixer or HD/RGB mixer. Add various effects like PinP, 2 Keyers or transitions and it's easy to see how this unit becomes the center of all your multi-format video production.

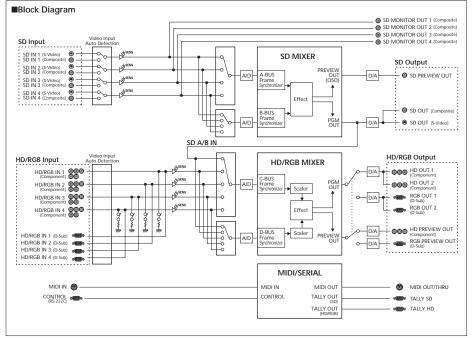
Finally an affordable video mixer for the foundation of



your multi-format video production.

Video Processing	J		Connectors
	SD NTSC or PAL (CVBS, S(Y/C))		CD lanut
Video Format	HD	1080/59.94i/50i SMPTE274M (Y:Pb:Pr TriLevel Sync)	SD Input
	пр	720/59.94p/50p SMPTE296M (Y:Pb:Pr TriLevel Sync)	
		640x480/60/75, 800x600/60/75, 1024x768/60/75, 1280x768/60/75,	
	RGB 1280x1024/60 1366x768/60 (RGB VH:positive/negative logic)		
		*VESA DMT Version 1.0 Revision 10 conform	HD/RGB Input
	SD	4:2:2 (Y:B-Y:R-Y), 8-bit, 13.5 MHz (BT.601)	
Video Sampling	HD	4:4:4 (Y:Cb:Cr), 8-bit, 74.1758 MHz/74.25 MHz000	
	RGB	4:4:4 (R:G:B), 8-bit, 25 MHz to 110 MHz	
Video Transition		Cut, Dissolve(MIX), Wipe : 6 Patterns, Reverse, SoftEdge, OneWay	SD Output
Video Effects	Composit	Picture in Picture, Chroma Key (Blue/Green), Luminance Key(White/Black) Picture in Picture with Zoom/Pan (HD/RGB side only)	
Functions			HD Output *Select Component or RGE
Multi-Screen Presentation		Screen Setup : 2 screens x 1 line, 3 screens x 1 line, 2 screens x 2 lines,	Select component of Kor
		3 screens x 2 lines	
Synchronization of Multiple Units by MIDI		Control the slave unit(s) from master unit	RGB Output *Select Component or RGB
Master Fade A		Auto (0 to 4 seconds) or Manual Black or White	Remote Control Inter
Others			TALLY Output
Power Supply AC		AC 117 V, AC 230 V, AC 240 V (50/60 Hz), AC 220 V (60 Hz)	TALLY Output
Power Consumption		50W	
Dimensions		482(W) x 308(D) x 130(H)mm or 19(W) x 12-1/8(D) x 5-1/8(H) inch *EIA-7U Rack Mount Size	Signal Letency
Weight		6.8 kg or 15 lbs	

Dimension Chart (mm) 130.3 - ---84.9 149.4



* The SD section will allow one aspect (4:3 or 16:9) at one tim

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2005

Broadcast Engineering's BroadcastFree 2005 Pick Hit Award

For over 21 years Pick Hit awards have been selected by industry professionals. Each year they are awarded to only 20 products chosen from he thousands of products shown at NAB. Pick Hit winners are selected because of their positive impact on the everyday work of the intended user, nt over previous products, and their their technological impro appropriateness in pricing.



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	S-Video (Y/C) Preferential x 4:4-pin mini DIN type (Y:1.0 Vp-p, C:0.286 Vp-p, 75 ohms) Video (composite) x 4:BNC type (1.0 Vp-p, 75 ohms)				
	BNC Type x 4 HD:Y/Pb/Pr (1.0Vp-p, 75Ω, TriLevel Sync) RGB:R/G/B (0.7Vp-p, 75Ω), H (SVTTL), V (SVTTL) D-SUB 15pin Shrink Type for HD/RGBx 4 *For In or ThruOut use, select BNC Type or D-sub Type				
	PGM S-Video (Y/C):	4-pin mini DIN type (Y:1.0 Vp-p, C:0.286 Vp-p, 75 ohms)			
	PGM Video (composit	e) BNC type (1.0 Vp-p, 75 ohms)			
	Preview	BNC type (1.0 Vp-p, 75 ohms), OSD Menu Output			
	PGM Component HD	BNC Type x2 (1.0Vp-p, 75 ohms, TriLevel Sync)			
tput	Preview Component H	BNC type (1.0 Vp-p, 75 ohms, TriLevel Sync) OSD Menu Output (display On/Off is selectable)			
	PGM RGB D-sub	15pin Shrink Type x2 (0.7Vp-p, 75 ohms, 5VTTL Sync)			
tput	Preview RGB D-sub 15pin Shrink type (0.7 Vp-p, 75 ohms, 5VTTL Sync) OSD Menu Output (display On/Off is selectable)				
es	MIDI 5pin DIN Type (In, Out/Thru), RS-232C D-sub 9pin				
	D-sub 15pin Shrink type x2 (1 for SD/1 for HD) Max Input : 12V, 200mA Open collector Type				
	SD Input - SD Output: 1 frame				
	SD Input - HD/RGB Output: 2 frames				
	HD/RGB Input - HD/RG	B Output: 1 frame			





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HD, SD and PC-RGB

50 100

video signals

MULTI-FORMAT VIDEO MIXER -220HT







MULTI-FORMAT VIDEO MIXER





Pick Hit Award From Broadcast Engineering Magazine at NAB 2005



With active input channel indicators, backlit channel buttons, single touch recall presets, joystick and dial control of PinP and Keyers — operation is simple and intuitive.

Mix Multiple Input Formats

Capable of mixing HD (1080i/720p:component), SD (S-Video, Composite) or RGB from computer (from VGA to SXGA).

Choose from Various Output Formats

Output format is selectable from various types: 1080i or 720p for HDTV and RGB for computer displays. SD inputs are up-converted but can also be output independently.

Simple and intuitive operation

Synchronize Multiple Units and Control Remotely

With thru outputs and MIDI, multiple units can be cascaded to drive multiple screens (video walls). Control the V-440HD remotely via MIDI, V-LINK or RS-232C.