

KN-H Series Multi-format digital production switchers

KM-H3000EKM-H3000UKM-H2500EKM-H2500U



SD or HD?

Shouldn't your production switcher handle both?



If you haven't already made the move to HD, chances are you will at some point in the future. As the heart of a small television studio or in playout, venue and OB applications, new JVC KM-H Series multi-format digital production switchers deliver flexibility, reliability and affordability – with the added benefit of being able to handle both SD and HD video signals.

The KM-H3000 is a powerful 12-input, 3-key SD/HD-SDI mixer, while the KM-H2500 is a 6-input, 2-key model ideal for entry level applications. Both feature a robust, single-piece metal construction for desktop or optional in-desk/ rack-mount operation, high-end push buttons and a robust T-Bar; all designed to handle the physical challenges of mobile and flight-case use.

Both digital mixers feature an intuitive, traditional panel layout and a simple menu structure, and are very easy to set-up and use. Buttons are user adjustable to any brightness and hue for easy viewing in darkened environments, allowing the user to fully customise the appearance of their own unit. High quality chroma keying and sophisticated dual animation playout capability ensures that the KM-H switchers will satisfy the most demanding of applications.

Key Features

- Twelve (six on KM-H2500) multi-definition HD-SDI inputs 480i, 576i, 720p, 1080i 50/60Hz
- Three keyers (two on KM-H2500)
- Four inputs feature frame synchronisers
- Four up/down converters
- Two 2D DVEs with crop and resize functionality
- Robust full metal single-piece design with professional buttons and T-bar
- Two internal media store sources with animation support
- One pattern generator with circle and pattern rotation
- One wash generator
- One floating high quality chroma keyer
- Six HD-SDI outputs; 2 program, preview, Aux 1, Aux 2 and Aux 3
- One analogue composite output
- Sync generator with three independently timed outputs
- Remote control using RS422 and 24 GPI inputs
- Ten memories, eight tallies
- Optional desk/rack-mount frame
- Optional redundant power supply



KM-H3000

Multi-format digital production switcher

Wipes/menu

- Instant access to transition types, each modifiable via the menu system
- Wipe modifiers include vertical and horizontal multipliers and wipe rotation
- Colour borders, softness, aspect ratio, also controlled by menu system
- Buttons allow easy access to memory functions, providing ten individual function stores

Key/DVE selection

- Auto select chooses the input's key
- Exceptionally high-quality chroma keyer
- DVE dual picture-in-picture keyer

Key selection

Activates source selection for Key 2 and Key 3, and the three aux busses, via the Key/Aux bus

Key/Aux Bus

- Key input selection bus
- Auxes can be used to send a number of different sources to other equipment, such as on-set monitors, slow motion servers, replay servers, waveform monitors, video servers, etc.

Program Bus

- Enables direct selection of program output, with active source lighting
- Accesses media stores for still images and animations

Preset Bus

- Selection of next background
- Also AUX PGM, AUX PREV and AUX CLN (clean) selection buttons for aux outputs



- Memory access keys for quickly recalling memory sets from one of the ten available memories
- Menu and Next keys activate and navigate the menu

Menu display

- Easy to read screen for clear menu display
 Three rotary/push button controls, offering
- simple parameter selection
- Intelligent 'menu follows function' feature



KM-H3000EKM-H3000UKM-H2500EKM-H2500U



Powerful keying



Two 2D DVEs, featuring lower third and background graphic



High quality chroma key with DVE, lower third and graphic overlay

KM-H2500

Perfect for entry-level applications, the KM-H2500 shares the features and facilities of the KM-H3000 with the following exceptions:

- Six multi-definition SDI inputs
- Two keyers
- No positioner, so Wipe and DVE positioning set via knobs



The heart of the studio

Unlike other switchers that ship with only basic functionality, KM-H Series switchers come fully equipped with all inputs, chroma key, animation stores and frame synchronisers, with no need to purchase further optional components to enjoy full functionality.

Fitting perfectly with JVC's philosophy of providing an affordable upgrade path to High Definition production, the KM-H Series digital production switchers are the ideal companion for systems incorporating GY-HD250 series multirole cameras and DT-V series HD monitoring solutions.

Feature summary

- Twelve (six on KM-H2500) multi-definition inputs, 480i, 576i, 720p, 1080i 50/60Hz
- Three keyers (two on KM-H2500)
- Four inputs with frame synchronisers
- Four up/down converters
- Two 2D DVEs with crop and resize functionality
- Two internal media store sources with animation support
- Floating high quality chroma keyer
- Sync generator with three independently timed outputs



With full-functionality built-in to the KM-H2500 and KM-H3000 production switchers, there's no need to buy expensive options. The only additional accessories are:

Desktop mount for studio use - Recessed mounting in the desk ensures the mixer remains securely mounted, and vented, especially when used in an OB van. **Redundant power supply** - JVC's offering of redundant power is a rare and valuable feature for

such affordable mixers - ideal for live events and critical applications.



Specifications

KM-H3000/2500

Multi-Definition	
Standard Definition*	480i/59.94, 576i/50 (all at 4:3 and 16:9)
High Definition	1080i/59.94, 1080i/50, 720p/59.94, 720p/50
Input	
Inputs	(KM-H3000) - 12 SDI Multi-Definition
	(KM-H2500) - 6 SDI Multi-Definition
Frame Sync	4
Reference Bla Input Connectors	ck Burst, Tri-Level Sync (internally terminated) BNC
Colour Signalling	Y:Cb:Cr 4:2:2, 10 bit
Signal Interface	SMPTE 292M
Signal Loss	>15dB, 5 MHz to 1.5GHz
Output	
Outputs*	6 SDI Multi-Definition + 1 analogue
Output Types	2 x PGM, 1 x Preview, 3 x Aux (w/clean feed),
	1 x down-converted analogue NTSC/PAL
Reference	3 independently adjustable outputs with
	Genlock Black Burst and Tri-Level Sync
	Internally or externally locked
Signal Interface	SMPTE 292M
Signal Loss	> 15dB, 5 MHz to 1.5 GHz
Interfaces	
Tally Support	8 (D-sub 9 connector)
Editor Interface	1 (D-sub 9, RS-422)
General Purpose Interface 24 input (1 x D-sub 25 connector)	
Ethernet Management Interface 10/100Mbps (RJ45 connector	
Media Interface	USB 2.0
* Ordering notes	
There are two versions of each switcher:	

KM-H2500U/KM-H3000U and KM-H2500E/KM-H3000E. The U versions feature a North American-style power cord and standard definition format is 480i/59.94, as is the analogue output. The E versions feature European-style power cords and standard definition format is 576i/50, as is the analogue output.

Attributes Source Buttons (KM-H3000) - 10 (KM-H2500) - 6 User Adjustable Panel Glow Yes Matte Background Colour Generator Yes Wash/Graduation Yes (2 colours) Dissolve Variable transition rate (KM-H3000) - 3 Keyers (KM-H2500) - 2 Fader, Auto, Cut, GPI, Editor Transition Methods Key Source and Fill Input, Matte, Wash, Media Store Key Types Self, Linear, Chroma, PIP Chroma Key Yes Picture in Picture Yes Wipe Patterns 10 Circle Wipe Yes Digital Video Effects 2D Aux Buses З SD/HD Up/Down Conversion Yes Internal Still and Animation Stores 2 VFD Display Menu Control 3 push button knobs (KM-H3000 only) - Professional grade Positional Joystick **Operating Environment** 100-240V AC Power Redundant Power Optional Temperature 7-40°C (45-104°F) **Mechanical Specifications** Panel Dimensions (WxDxH) mm 404 x 272 x 122 Mounting Options Desktop, Rack, In-Desk Construction Material Robust Metal (KM-H3000) - 9.2 lbs (4.17 Kg) Weight (KM-H2500) - 8.7 lbs (3.95 Kg)



www.jvcpro.eu http://pro.jvc.com



JVC is a trademark or registered trademark of Victor Company of Japan, Limited. E&OE. Design and specifications subject to change without notice. UK0808KMH