KM-H3000
Multi-format digital production switcher

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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/menu

- Memory access keys for quickly recalling memory sets from one of the ten available memory banks, each with ten 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

Transition type

- Direct access to dissolve, wipe or DVE transition

Transition element

- Change any combination of video layers simultaneously
- Preview output always shows an accurate representation of the next scene

USB interface

- USB port for uploading still images and animations
- Allows easy software updates
- Saves switcher system configuration

Positioner

- Durable positioner for rapid 2D DVE and wipe positioning

MULTI FORMAT DIGITAL PRODUCTION SWITCHER KM-H3000
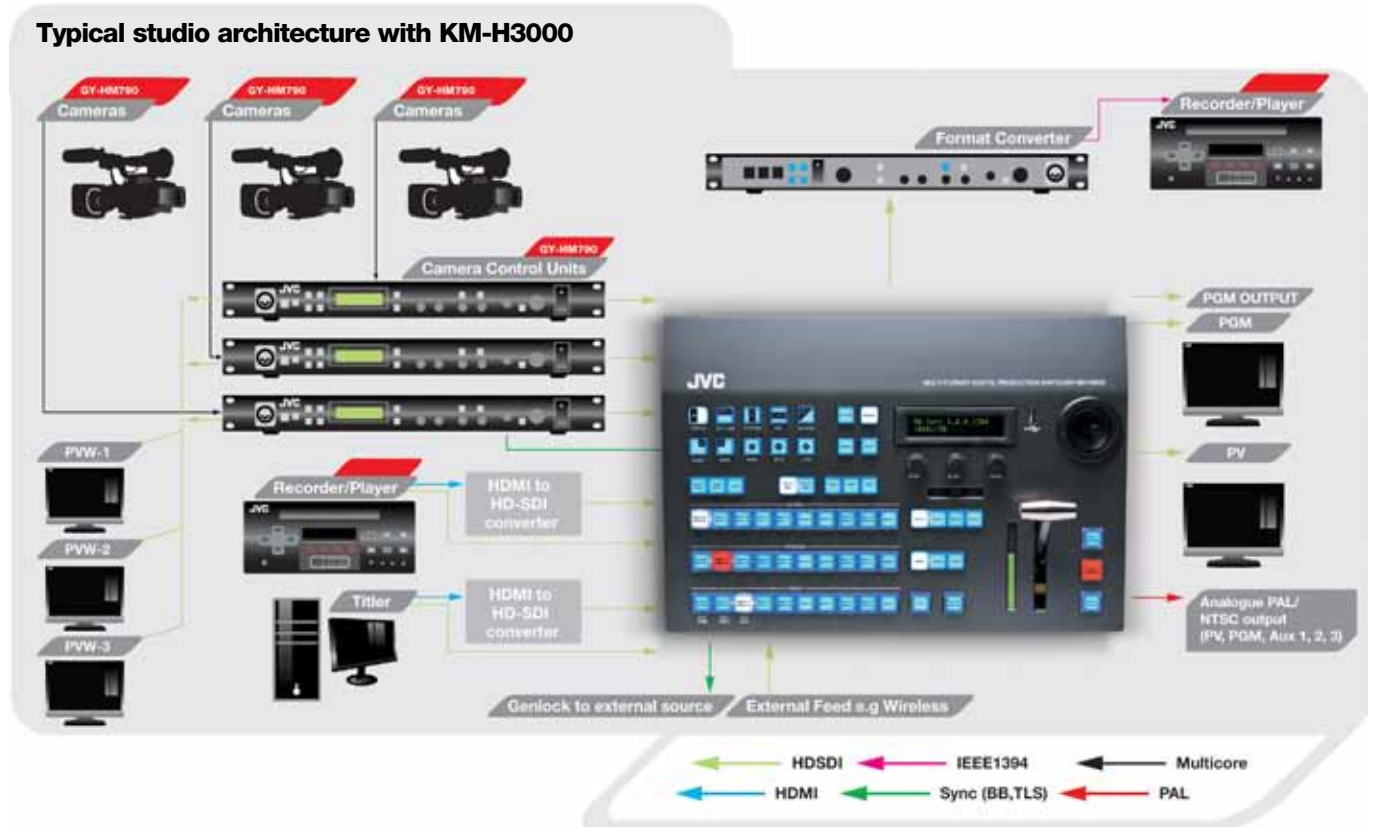
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T-bar & indicator

- Multi-LED fader progress bar (zinger) displays the transition direction and progress
- Assists in setting fader limits
- Robust, reliable and easy-to-use metal fader

Key transitions

- Easy independent cut or dissolve of keyers

HD and SD

As the heart of a small television studio or in playout, venue and OB applications, the JVC KM-H3000 multi-format digital production switcher delivers 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 switcher. It features 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 challenges of mobile and flight-case use.

The switcher features an intuitive, traditional panel layout and a simple menu structure, and is 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 switcher will satisfy the most demanding of applications.

Key Features

- 12 SD/HD-SDI inputs 480i, 576i, 720p, 1080i 50/60Hz
- Three keyers
- Four freely-assignable frame synchronisers
- Four up/down converters
- Multiview output assignable to program and/or preview outputs
- Two 2D DVEs with crop and resize functionality
- Two internal media store sources with alpha channel for stills and animations
- One pattern generator (circle and rotation), one wash generator
- One floating high quality chroma keyer
- Six SD/HD-SDI outputs: 2 program, preview, Aux 1, Aux 2 and Aux 3
- Sync generator with three independently timed outputs
- Remote control using RS422 and 24 GPI/GPO ports
- Redundant power supply and desk mount options

Multiviewer

Includes internal high quality 10-input multiviewer and output routable to Preview or PGM-2 outputs and freely assignable source names.

JVC
The Perfect Experience

The heart of the studio

The KM-H3000 switcher comes fully equipped with all inputs, chroma keys, animation stores and frame synchronisers, with no need to purchase further optional components to enjoy full functionality. The KM-H3000 also comes with a free multiview function, which includes high quality 10-input multiviewer. Fitting perfectly with JVC's philosophy of providing an affordable upgrade path to high definition production, the KM-H3000 digital production switcher is the ideal companion for systems incorporating GY-HM790 series multirole cameras and DT-V series
HD monitoring solutions.

Typical studio architecture with KM-H3000

Specifications

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	12 SDI Multi-Definition
Frame Sync	4
Reference	Black Burst, Tri-Level Sync (internally terminated)
Input Connectors	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
Output Types	2 x PGM, 1 x Preview, 3 x Aux (w/clean feed),
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 ports (1 x D-sub 25 connector)
Ethernet Management Interface	10/100Mbps (RJ45 connector)
Media Interface	USB 2.0

Attributes

Source Buttons	10
User Adjustable Panel Glow	Yes
Matte Background Colour Generator	Yes
Wash/Graduation	Yes (2 colours)
Dissolve	Variable transition rate
Keyers	3
Transition Methods	Fader, Auto, Cut, GPI, Editor
Key Source and Fill	Input, Matte, Wash, Media Store
Key Types	Self, Linear, Chroma, PIP
Chroma Key	Yes
Picture in Picture	Yes
Wipe Patterns, including circle	10
Digital Video Effects	2D
Aux Buses	3
SD/HD Up/Down Conversion	Yes
Internal Still and Animation Stores	2

Operating Environment

Power	100-240V AC
Redundant Power	Optional
Temperature	7-40ºC (45-104ºF)

Mechanical Specifications

Panel Dimensions (WxDxH) mm	404 x 272 x 122
Mounting Options	Desktop or optional rack/in-desk
Construction Material	Robust metal
Weight	4.17 Kg (9.2 lbs)

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