

CHROMA KEYER
DVK-100



4:2:2 FRAME SYNCHRONIZER

DVK-100



The Datavideo DVK-100 is a two camera live entry level, stand alone Chromakey solution designed for education, small studios, wedding videographers and small size production companies.

The DVK-100 enables you to create virtual studio effect without spending large sums of money, simply by combining a single colour background (Blue or Green is the best.), two video cameras and proper lighting.

Available to support either PAL or NTSC video standards (separate units), the DVK-100 features three composite and S-Video (Y/C) inputs allowing for dual camera and separate background connectivity.

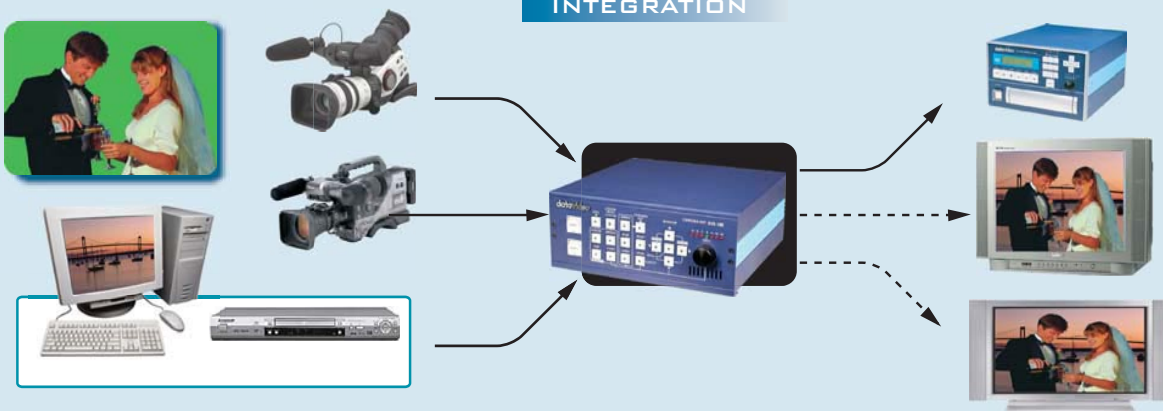
REAR PANEL



FEATURES

- 2 camcorder inputs for foreground, and 1 background input.
- Key out background color selectable (Blue, Green, or luminance).
- Key out level adjustable to reduce the shadow after keying.
- S(Y/C) and Composite input and output.
- Window adjustable to fit in different sizes of background screen.
- Built in Shrink function (Reduce white or black color edge on subject.)
- Built in Spill function (Adjust spill suppression.)
- Built in Density (Adjust selected color key transparency.)
- Built in color processor, Brightness, Contrast, Color, and Tint adjustable (Tint is NTSC only)
- Built in TBC
- RS-232 interface for control from other RS232 devices.
- GPI trigger interface for switching two different camera foreground sources.

INTEGRATION



APPLICATION



Wedding Videography



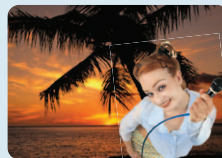
Campus TV station



News/Weather Forecast



Entertainment



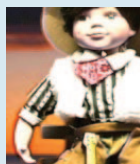
FUNCTION

Window

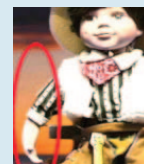


Adjustable frame to fit in different sizes of background
That makes more flexible camera usage.

Shrink/Matte



Shrink Left, Right=0



Shrink Left, Right=2

Clean the left or right edge on the subject.
Usually its Black or White color edge.

SPECIFICATION

Input

3 Inputs:

CAM-1 / CAM-2 INPUT: For foreground use (FG)
BG INPUT: For background use (BG)
Each input could select Composite or Y/C signal:
Y/C: 4-pin 75 ohm DIN Connector
Composite: 75 ohm RCA connector, level: 1.0Vp-p

Output

Simultaneously output:

1 Y/C: 4-pin 75 ohm DIN Connector
2 Composite 75 ohm RCA Connector, level: 1.0Vp-p

Output mode:

FG or FG with BG, Choose Chroma key ON or OFF

Loop through out:

Composite out from Y/C in or Composite in
Y/C out from Y/C in only

Video Processing

Component: 8-bit, 4:2:2, Y: 13.5MHz
Frame Synchronization: Two channel full frame TBC
Frequency Response (S input): 5.0 MHz ± 3 dB
DG, DP: $\pm 3\%$, 3°
S/N Ratio: >50 dB

General

Power Input: DC 12V/1.5A (AC adapter included)
RS-232 & GPI interface: For remote control

Ambient Temperature: 32° - 122° F (0° - 50° C)

Ambient Humidity: Less than 90%

Functions description

CAM1 / CAM2: Select FG video source
FG / BG: Choosing FG / BG Still and Color Processor
FG and BG Still: For FG or BG frame freeze
FG / BG Color correction: Brightness, contrast, color, tint (Tint is NTSC only)

Chroma key ON/OFF: Chroma key switch

ON: FG + BG output, after color correction

OFF: FG output, after color correction

BLINKING: BG output after color correction

Chroma key Backing Color: Select key out background color (Green, Blue, Black)

Luma key: Clean up dark or bright in composed video color

Luma key Level: Adjust dark or bright gradient level in composed video color

Chroma key Level: Adjust selected color key level

Chroma key Density: Adjust selected color key transparency

Chroma key Spill: Adjust spill suppression

Shrink: Shrink left / right side edge

Window: Adjust display window size

RESET: Back to factory default setting

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