

**CHROMA KEYS**  
● ● ● **DVK-100**



4:2:2 FRAME SYNCHRONIZER

# DVK-100



High quality Chroma Keying has always been too expensive for all but the most professional environments, such as broadcast studios. With Datavideo advanced technology, we have successfully reduced the cost, without dramatically reducing the quality. The DVK-100 is the first Chroma Keyer that is designed for schools, small studios, wedding videographers and small size production companies. Now, you can easily create a virtual studio effect. All you need is a DVK-100, a single color background (Blue or Green is the best.), two video cameras and proper lighting,

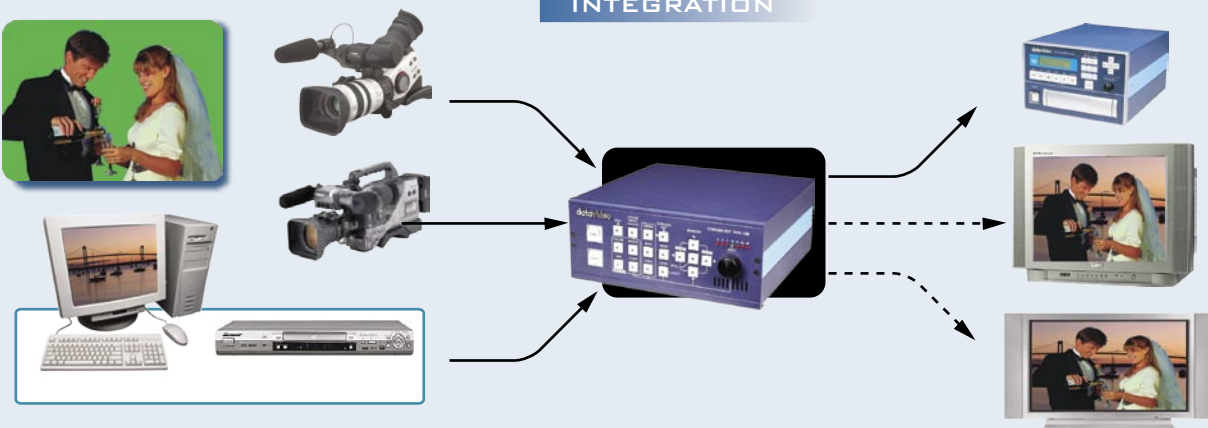
**REAR PANEL**



**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

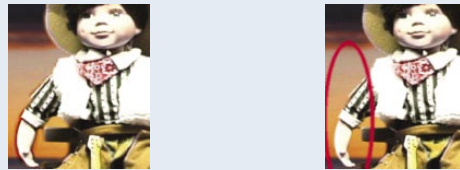
## FUNCTION

### 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 it's 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 in 4-pin 75 ohm DIN Connector  
Composite in 75 ohm RCA connector, level:  
1.0Vp-p

### Output:

Simultaneously output:

1 Y/C out 4-pin 75 ohm DIN Connector  
2 Composite out 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  
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  $\pm$ 3dB  
DG, DP  $\pm$  3%, 3°  
S/N Ratio >50 dB

### General

Power Input DC 12V/1.5A (AC adapter included)  
RS232 & GPI interface for remote control

Ambient Temperature 32°F - 122°F (0 °C - 50°C)  
Ambient Humidity Less than 90%

### Functions description

CAM1 / CAM2 Select FG video source  
FG / BG for 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

**datavideo**<sup>®</sup>  
www.datavideo-tek.com

D • I • G • I • T • A • L • V • I • D • E • O

**Datavideo Corporation USA**  
12300-U East Washington Blvd.  
Whittier, CA 90606,  
U.S.A.  
Tel:+1-562-696 2324  
Fax:+1-562-698 6930  
E-mail:contactus@datavideo.us

**Datavideo Technologies Europe BV**  
Californiedreef 26  
3565 BL Utrecht,  
The Netherlands  
Tel:+31-30-261 96 56  
Fax:+31-30-261 96 57  
E-mail:info@datavideo.nl

**Datavideo UK Limited**  
Unit 2 Waterside Business Park  
Hadfield, Glossop,  
Derbyshire SK13 1BE, UK  
Tel:+44-1457 851000  
Fax:+44-1457 850964  
E-mail:sales@datavideo.co.uk

**Datavideo Hong Kong LTD.**  
G/F., 26 Cross Lane,  
Wanchai,  
HK  
Tel: (852)28331981  
Fax: (852)28339916  
E-mail: info@datavideohk.com

**Datavideo Technologies China Co.**  
2F-D, No.2, Lane 777, West  
Guangzhong Rd, Zhabei District,  
Shang-hai, China  
Tel:+86-21-5603 6599  
Fax:+86-21-5603 6770  
E-mail:service@datavideo.cn

**Datavideo Technologies (S) PTE LTD.**  
100 Lorong 23, Geylang,  
#01-03 D'Centennial Bldg  
Singapore 388398  
Tel:+65-6749 6866  
Fax:+65-6749 3266  
E-mail:info@datavideo.sg

**Datavideo Technologies Co., LTD.**  
10Fl., No.176, Jian-Yi Rd.,  
Chung Ho City, Taipei Hsien  
Taiwan, 235,  
Tel:+886-2-8227 2888  
Fax:+886-2-8227 2777  
E-mail:service@datavideo.com.tw