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# Professional 4K Chromakey

**DVK-400**



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# DVK-400

## Professional 4K Chromakey





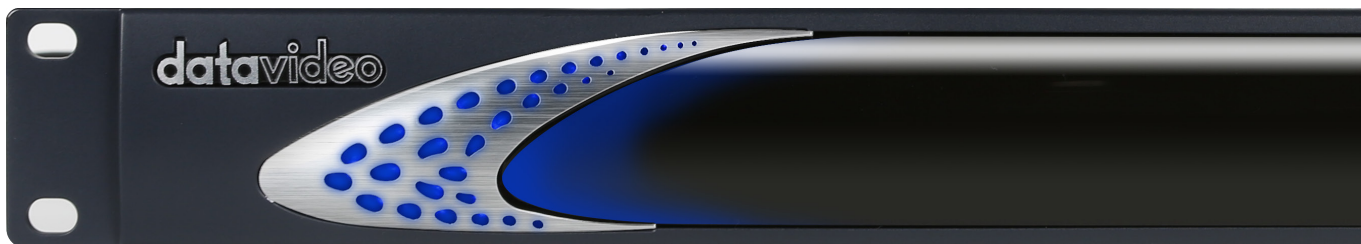
DVK-400 is a professional broadcast grade live chromakey processor that works with resolutions up to 2160p60. This real-time chromakey processor provides 4:4:4 10-bit internal processing for the best results. Chromakeying with the DVK-400 can be done on standard green and blue backgrounds, however with the addition of special features such as Open Angle and an impressive Automatic chromakey mode you can even use colours that divert from the standard. The DVK-400 is able to chromakey very hard subjects, such as water, smoke, blonde hairs and shadows. DVK-400 accepts HDMI and SDI inputs up to 2160p60 in various configurations. Various in- and output configurations ensure that the DVK-400 will fit in

any professional studio workflow. Mirroring on the preview output channel ensures your talent of a perfect reference screen.

DVK-400 provides high-end results while keeping the user interface very intuitive. The control software runs on any Windows PC and connects to the DVK-400 over a standard IP connection. The intuitive program features an impressive automatic mode in which a perfect chromakey result can be achieved. With extensive fine tuning options anybody can create a perfect result in a wide variety of circumstances. Saving these settings give you the option of quickly recalling certain situations.

- Supports 4:4:4 10-bit internal processing function for real-time 4K Chromakey.
- Auto Chromakey function allows you to set all Chromakey settings by pressing one button only.
- Supports Luma key for easily integrating AR objects
- Supports easy operation over standard IP connection
- Supports advanced algorithm for showing transparency, smoke, reflections and shadows perfectly.
- Supports color enhancement functions for suppressing the spill easily.
- Supports professional color calibration for the foreground camera signal. Moreover, it supports Dark/Bright/Shadow Enhancement functions for synthesizing the background and foreground pictures more professionally and naturally.
- Supports many HDMI and SDI outputs and there are mirroring output options for both Preview and Program.
- Users can switch 8 pre-saved chromakey parameters by the DVK-400 control software.
- Supports intelligent chromakey noise reduction function.
- Supports Matte control for adjusting the Black Level and White Level for precise chromakey settings to eliminate the reflective light from the foreground.
- Supports real-time video post-processing for calibrating color parameters in a real-time basis. (Brightness, Contrast and Saturation).
- Supports Matte function with soft edge for achieving more natural composite picture for the chromakey outcome.

## Front View



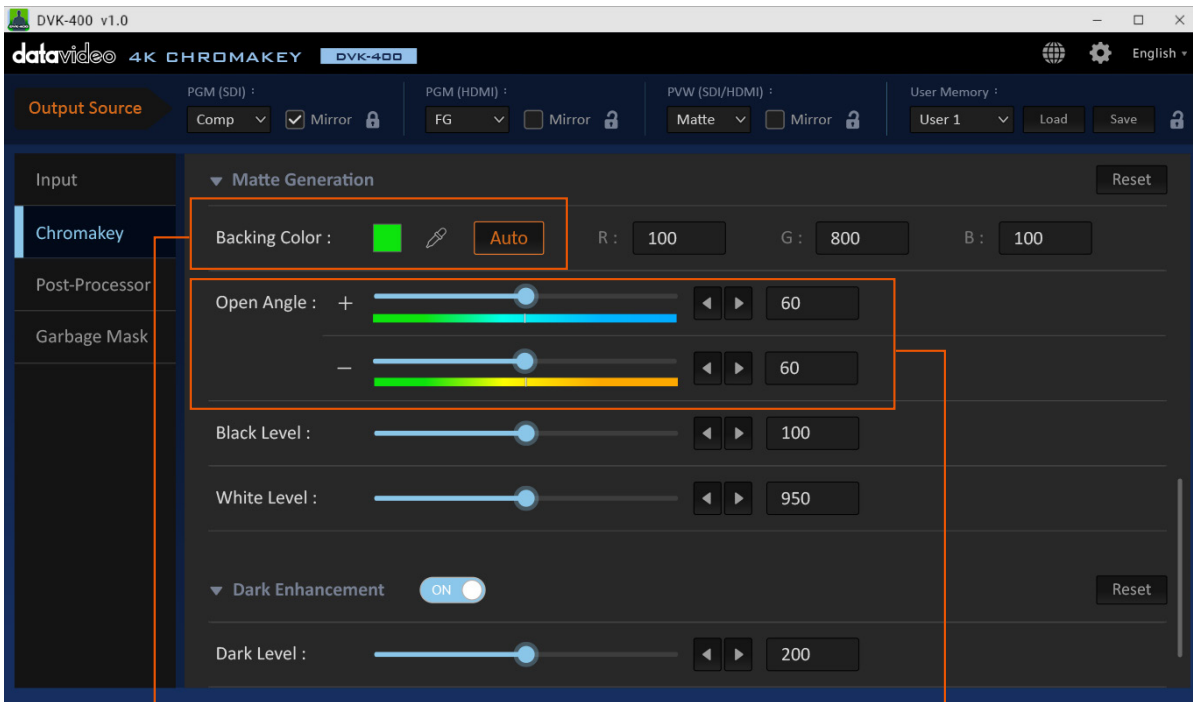
## Rear View





## Simple UI Design and Easy to Use

Easy to use DVK-400 control app works on Windows computers. Connecting the DVK-400 goes with a regular network connection and then you can set the chromakey related parameters and recall the pre- saved chromakey parameter file by connecting the DVK-400 to the Notebook PC through the IP connection.



### Auto Chromakey by Pressing One Button without Complicated Adjusting.

The Auto key function helps you achieve professional chromakey effects, without any complicated settings, even when you don't have the standard green or blue background.

### Special Open Angle Design to Give You More Flexibility for the Blue or Green Background

The Open Angle function allows you to determine whether a specific color must be chromakeyed or kept, which gives you more flexibility compare to the traditional chromakey limitations of the green or blue background.



**DVK-400 4K Chromakey  
Supports 4:4:4 10-bit  
Internal Processing**

DVK-400 is compatible with the 3840 x 2160 4K signal to provide professional real-time chromakey effect.



**DVK-400 Digital Algorithm  
Technology**

The DVK-400 can handle the most difficult chromakey scenes including blonde hair, glass of water, smoke and reflective shadow simply for showing delicate and real chromakey effect.



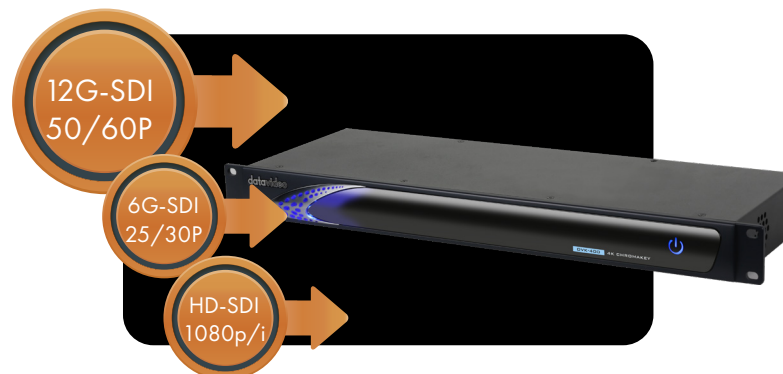
**Post-Processor**

After setting all the chromakey parameters, you can still adjust each video parameter like brightness, contracts, color and saturation to combine the foreground and the background perfectly.



**Supports 12G-SDI 60P Video**

Supports up to 2160p60 over 12G-SDI or HDMI 2.0.



### Intelligent Matte Control and Auto Spill Adjusting

The Matte precision chromakey setting allows you to adjust the profile of the object easily. The automatic spill adjusting function allows you to eliminate the reflective background color from the foreground object easily.



### Preview Output for the Mirroring

The DVK-400 provides preview output for the mirroring for the subject to see the real-time composite picture to prevent the frame-out from happening. Moreover, it allows the subject to act more naturally according to the background.



### Still Enhance Function

It can enhance the dark edges of the object to provide more detailed results.



### Background Blur Function ( HD only )

The background blur function allows you to create the Depth of field effect easily to become more professional and more vivid.



### Edge-Shrinking Function ( HD only )

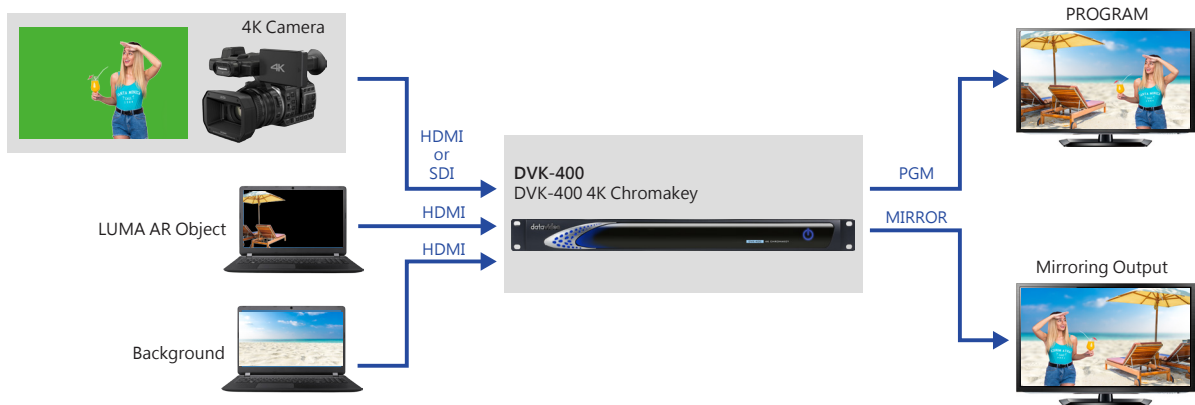
This function allows you to eliminate the edge of the chromakeyed subject due to insufficient lighting.



### The Soft-Edge Function (For HD only)

This function allows you to soften / blur the edge of the chromakeyed object for merging the chromakeyed object into the background more naturally.





Model	DVK-400
Product Name	4K Chromakey
Video Standard	4K/3G/HD
Video Process	10-bit
Video Format	3840x2160p 60/59.94/50/30/29.97/25/24/23.98 1080p 60/59.94/50/30/29.97/25/24/23.98 1080i 60/59.94/50
Foreground Inputs	1 x 12G/6G/3G-SDI 1 x HDMI 2.0
Background Inputs	1 x HDMI 2.0
Loop Through	1 x 12G/6G/3G-SDI Camera loop out
Aux input	1 x HDMI 1.4 (Lumakey Overlay or External Matte or Camera )
Output	2 x 12G/3G-SDI 1 x HDMI 2.0
Video PVW Output	2 x 12G/6G/3G-SDI 1 x HDMI 2.0
Keying Options	Chromakey Green / Blue
Key Mask / Spill Correction / Edge Correction	Yes
Color Processor	Yes
Noise Reduction	Yes
User Preset	8
GPI In / Out	----
Sync Reference	Input & Loop Output (Tri-Sync or Black Burst)
Controlled Via	Ethernet/RS-232
Chassis	1RU 19" Rack-mount Design
Dimension (LxWxH)	484 x 243 x 44 mm
Weight	2.7 Kg
Operating Temp. Range	0~40 ° C
Power	DC in 7~15V



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