



Datavideo HS-4000

ProdCode: DATAHS4000

4K 8-Channel Portable Video Streaming Studio



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Features

- 4K 8-Channel Portable Video Streaming Studio
- All-in-One 4K Production Studio
- Recording and Live Streaming
- High-Quality Video Support
- Intuitive Touchscreen and Physical Buttons
- Versatile Video Inputs
- True 12G 4K 50/60 Video Production Switcher
- 12-Channel Application Built upon an 8 Video Switching Design
- Plug-and-Play
- Integrated 4K UHD Monitor
- 5" Touchscreen Display
- Intuitive One-Button-One-Function

Elevate Your Multimedia Production with a Lightweight 4K Mobile Studio Powerhouse

The Datavideo HS-4000 is a compact, portable mobile studio ideal for broadcasting, conferences, live events, and hybrid activities. It supports up to 4K 60FPS video, accepting inputs from HDMI 2.0 devices and 12G-SDI cameras. It features a 5-inch touchscreen with customizable icons, transition animations, chroma key, and various functions.

With a 17.3-inch UHD 2160p monitor, it offers a multiview display. The HS-4000 includes easy recording and live streaming encoders for simultaneous broadcasting and high-quality MP4 recording with synced audio-video.

This mobile studio blends advanced tech and convenience to fulfill modern multimedia production needs.

All-in-One 4K Production Studio

Datavideo HS-4000 is an all-in-one 4K production studio, it's designed to provide users with a comprehensive solution for producing and broadcasting content in 4K resolution.

The HS-4000 combines features such as video switchers, audio mixers, monitor, recorder, and streaming encoder into a single integrated unit, making it easier for users to create high-quality content without needing to assemble a complex setup from various individual production devices.

Recording and Live Streaming

The HS-4000 features easy-to-use recording and live streaming encoders. This functionality enables simultaneous live broadcasting and recording of high-quality MP4 files with audio-video synchronization. This dual capability is ideal for archiving and post-event editing.

High-Quality Video Support

The mobile studio supports video resolutions of up to 4K at 60 frames per second (FPS). This high-resolution capability ensures that the output video quality is crisp and detailed, suitable for professional-level productions.

Intuitive Touchscreen and Physical Buttons

In addition to traditional physical buttons, the mobile studio features a 5-inch touchscreen with customizable icons. This touchscreen interface provides intuitive control over various functions and settings, enhancing user experience and ease of operation.

Versatile Video Inputs

The HS-4000 can accept video inputs from various sources, including PCs, multimedia players with HDMI 2.0 output, and 12G-SDI cameras. This versatility allows for seamless integration of different devices and sources into the production workflow.

The HS-4000 has 12 video inputs, with 8 of the inputs being selectable for flexibility, as well as a variety of video and audio inputs and outputs, 7 outputs with AUX assignment.

True 12G 4K 50/60 Video Production Switcher

Support UHD 4K60/50p signals on inputs and outputs. It also has a built-in input scaler, for up-conversion on each available input.

Multiple Interfaces for All Video Types

Fully equipped with various I/O's that accept UHD 4K 50/60p videos from sources such as PCs with an HDMI 2.0 output port, multimedia players, and 12G-SDI ENG style cameras. Upon connection, the 10-bit broadcast quality video will be displayed instantaneously at no expense of resolution, speed and frame rate.

12-Channel Application Built upon an 8 Video Switching Design

Responsive and seamless interface switching between 12G SDI and HDMI 2.0 on four shared channels. Upgrading from 8 channels to a 12-channel machine adds greater versatility to your hardware connections and more possibilities for live program production.

Plug-and-Play

There is no need to install the driver to connect with the laptop. The images and videos can be directly input to the switcher through the HDMI interface of the laptop.

Integrated 4K UHD Monitor

Equipped with a high-quality 17.3-inch 4K UHD monitor, the mobile studio provides a multiview display. This display allows producers and operators to monitor multiple video sources simultaneously, ensuring smooth production execution.

The 4K monitor has four times of resolution than a Full HD monitor, resulting in much sharper and more detailed images.

The increased pixel density of a 4K monitor means that individual pixels are smaller and less noticeable, resulting in sharper text, images, and graphics. The higher resolution of a 4K monitor improves productivity, as you can have multiple windows open side by side without sacrificing legibility or clarity.

5" Touchscreen Display

With the 5" touchscreen panel built-in, you will not need a laptop or app to assist with your live production.

With many built-in functions, including user memory with customized icons, transition animation set up, chroma key, luma key, DSK, PIP, wipe generator, still stores, and logo insertion; these can all be done on the 5" LCD touchscreen.

Intuitive One-Button-One-Function

The easy-to-use user interface is intuitive so you don't need complicated composite buttons to activate various switching effects including video effects that are usually activated in a number of steps.

They can all be saved in one user memory slot and with the assigned icon, you can easily identify the settings saved therein. Simply tap the slot to activate all saved features.

Picture-In-Picture Frames with Unique 3D Borders

Create 2 picture-in-picture frames that can be active at the same time. Picture-in-picture frames are fully adjustable in size and position and have various border options including unique 3D borders.

Varieties of 3D PIP Configurations

The two built-in PIP windows can be overlaid on one another. In addition to the default corner places, you can further change the window's size, position and display ratio. You can also crop the window to make it square.

By adding a shaded border, you will then be able to fully generate an advanced 3D PIP window with a self-defined border colour.

WIPE Transition Effects

There is a total of 64 wipe transition effects designed for different TV programs. The WIPE transition is a very crucial element in program production. The SE-4000 provides 64 eye-catching WIPE effects with configurable border colour and width. The border can be further softened to make the WIPE effect unique.

Still Image Thumbnails

Save up to 250 4K still images such as sequential program images, images of various scenarios, full size logos, school or faculty badges, etc.

You can also capture important moments of your program and save these images for post-edits. This library of images is a good tool for future video production.

Lumakey, Chromakey, Linear Key and Downstream Key

The HS-4000 comes with a built-in web-ready recorder. Simply insert your SD card, and you'll have video files that can be immediately uploaded to the video network of your choice or to your website.

Professional Audio-to-Video Synchronization

There are times when video and audio become out of sync during video production or live video streaming. Most users would feel annoyed when such an issue arises. Videos are usually processed at 25 or 50 frames per second and the audio is delivered in milliseconds.

Due to different processing times and network latencies, you will thus receive out of sync video and audio. The HS-4000's professional built-in audio delayer is designed to ensure precise audio-to-video synchronization by delaying and calibrating the audio received.

Ultimately, the sound reproduced by stereo speakers should match the video played on the big screen, providing the audience with a pleasant viewing experience.

Pre-saved 10 virtualsets with each having 4 configurable camera angles; save up to 40 virtualsets

In addition to user saved still images, the SE-4000 also provides up to 10 sets of or

40 high quality 4K virtualsets for left, front, right and long shot auxiliary cameras. They are designed for video conferences and interview programs.

Not only that, the user can visit www.datavideovirtualset.com to download more virtualsets. Different themes for various scenarios are available on the website for download. In addition to the built-in virtualsets, you still have 200+ still image slots for saving extra virtualsets on the HS-4000 for video production.

HS-4000 Switcher has 4 Chromakeyer for a Complete Virtual Studio Experience

Up to 4 channels of switchable chromakey with our unique “Key tie” functionality. Create a complete 4-channel virtual studio and enjoy our super easy to use automatic chromakey functions.

XPT - Multiple Assignments at Will

Crosspoint assignment (XPT) grants you the option of rerouting each physical in and output to any of the available buttons. No more ducking under the table for quick rerouting!

Fully Customizable: User Memory

Save camera and keyer settings in user memory presets. The HS-4000 offers up to 125 memory presets. Use icons to better identify settings saved therein.

You may sometimes need to switch between different chromakey, lumakey and linear key settings because different video shooting environments have different camera angles and amounts of light so the keyer settings may vary.

You can save the camera's PTZ settings along with these keyer parameters in the user memory presets which can be accessed with one tap. Once loaded, the program view will be switched instantaneously to another camera image along with the keyer settings and the background image, mimicking video switching with multiple keyers. HS-4000 is a video switcher designed to create a multi-camera virtual studio.

User Image Swap

Use an icon to better identify settings saved in user memory slots. There are currently 380 icons available.

Support SRT streaming protocol, no need to worry about unreliable network environment

Many broadcasters have experienced pixelated video during live streaming, often due to unstable network environments caused by bandwidth volatility.

Streaming RTMP over unreliable, low-bandwidth networks can cause issues. With dvCloud, you can now replace the RTMP protocol with SRT, which will fix most streaming issues you may have. SRT is better than RTMP because it handles problematic networks more efficiently.

It requires less bandwidth, and it solves data errors faster. As a result, your viewers will experience a better stream, with less buffering and pixelization.

Seamlessly compatible with dvCloud

Get the most out of your streaming hardware using dvCloud. The built-in streaming encoder is seamlessly compatible with Datavideo's dvCloud service.

This subscription service give you the possibility of sending your stream to multiple destinations at the same time without having to have multiple hardware encoders.

You can also record your production on the dvCloud platform in h.264 format. After recording you can directly use this recording to upload it to your favourite content platform.

Direct SRT streaming to dvCloud prevents hiccups and lag in your stream, especially when using slow or unreliable internet connections or when streaming large distances (for instance to the other side of the globe). Even if your destination does not support SRT you can still stream SRT to dvCloud and go to the destination in RTMP.

Stream to 25 Platforms Simultaneously (dvCloud Professional)

dvCloud Professional (please refer to www.dvcloud.tv for more info) can stream to 25 platforms simultaneously. It can stream to either different platforms or different channels of the same platform. Thus, even if your local network bandwidth is limited, you can still stream to multiple platforms at the same time with dvCloud.

Real Time Statistics

dvCloud provides powerful real-time statistics for all video sources and destinations so you can be sure every frame reaches its destination:

- Monitor your video sources and be sure every frame makes it to the cloud
- Leave nothing to chance, check your network performance and adjust your streaming settings before you go live

- Monitor your streaming destinations in real time with our easy-to-use traffic light system
- All statistics are graphed, you can see the previous 10 minutes statistics.

In the box:

- 1x HS-4000 Unit
- 1x AD Switch DC 48~56V with AC Cord

