datavideo

Multi-Camera Portrait Video Production Solution

A solution for streaming multiple sources to a vertical split screen

The Internet Celebrity and We Media are two fast growing industries in the world today and as a result, the global video streaming market size is seen to increase at an accelerating rate. In the recent years, video streaming to split vertical screens is gradually becoming a popular option on many social media networks. Split vertical screens are already available on many video streaming platforms and are thus a revolutionary online streaming method for users in the video streaming industry. Commercial activities did not drive the development of video streaming, instead, the growth of which is brought by Internet Celebrities and ecommerce marketing. As of today, the market size of video streaming has grown to a whopping USD 4.4 billion economy. Streaming your ad video to split vertical screens is a new marketing strategy to promote your brand or company. This is not only a strategy that makes your brand look friendly to consumers and enhances the transparency of your company but also a good way to build trust with customers by interacting with them in real time, which is truly an advantage that no other marketing strategies can be a match of. In addition, video streaming also allows consumers to gain a better knowledge of the brand. According to our statistics, video streaming is obviously more popular compared to pre-recorded videos by at least three times. Also, video streaming builds better brand loyalty than traditional ads that convey information unilaterally. Moreover, video streaming is 10 times more efficient than traditional ads.

There is an obvious increase in viewers of the split vertical screen videos on social media networks, it is however becoming critical to attract more and keep fans in such a way that they will become loyal to your brand. Besides interacting with your fans in real time on social media, video quality is always an important factor in keeping your viewers. Because of this, Datavideo designed a video streaming switcher that includes a built-in split vertical screen feature, allowing you to create professional videos while streaming split vertical screen video to social media. You will be able to use multiple cameras and switch between them on the switcher, which not only gives you a much better video quality but also the ability to capture the views from different angles. To become an Internet celebrity that stands out, a video streaming switcher with split vertical screens is an indispensable tool to achieve your goal.

竖屏直播连线方式

BC-80

HD

Multiple 90 Degree Revolving Cameras

The ability to turn your BC camera by 90 degrees; use multiple cameras to take close-up shots from left to right as well as a full front shot. In this way, you will have a more diversified portfolio of the camera shots and be able to place more focus on your stream videos. Of course, you can also use any HD camera with HDMI output to achieve the same effect.

90°

PowerPoint input

To have the PowerPoint input to the switcher, just need to adjust the width and height parameters for vertical, and change the display direction to portrait display.
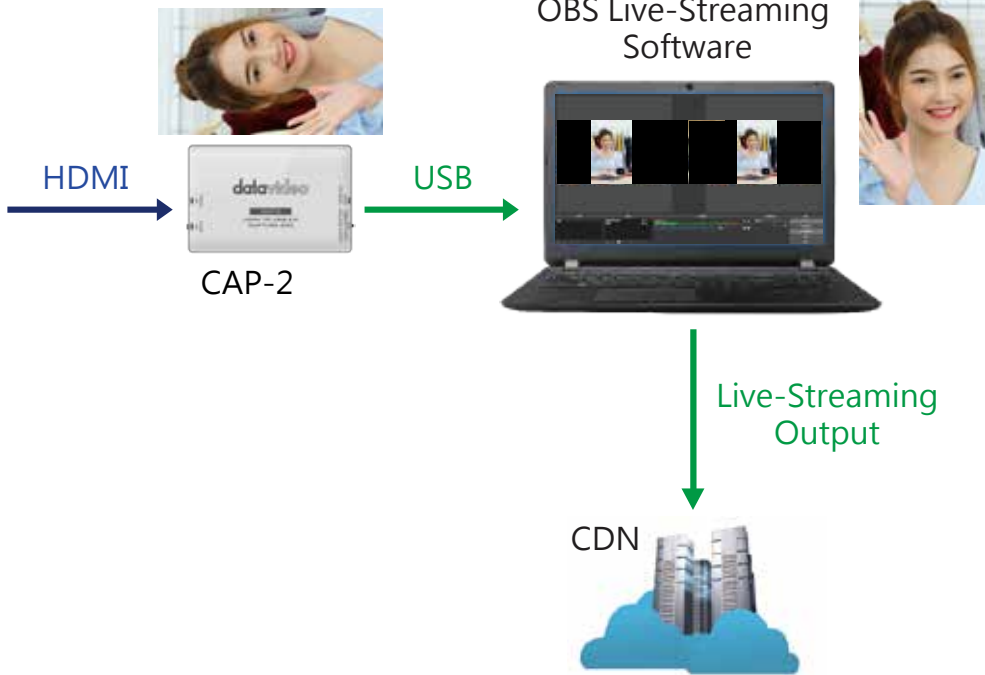
CAP-2 Video Conversion

datavideo

Connect CAP-2 to the SE-500 HD Switcher's video output for UVC video conversion, allowing direct connection to the OBS software of any notebook computer. This facilitates future post edits.

HDMI

OBS Live-Streaming
Software

HDMI

CAP-2

USB

Live-Streaming
Output

CDN

Video Switching

Once the split vertical screens are enabled, you will then be able to switch between three camera images and a PPT input. This allows you to upgrade your stream content from an ordinary uninteresting vertical screen streaming to an innovative and exciting one.

OBS Streaming with Vertical Screens

OBS Studio is a free Open Broadcaster Software, allowing you to simultaneously stream and record computer video, audio and external video in a variety of multimedia formats. The software includes many functions and is capable of streaming to multiple social media platforms in multiple AV formats. With the OBS Studio, the 90 degree video shot will be turned upright in the vertical screen and streamed to your viewers.

Product Introduction

SE-500HD
HD/SD 4 Channel Switcher

The Datavideo SE-500HD is a compact and powerful HD/SD video switcher with high price-performance ratio. This switcher is easy to operate so even non-professional users will be able to learn it without any difficulties. It supports 1080p60 videos and is designed specifically for We Media users. A variety of video effects such as lumakey, picture-in-picture and many other transition effects yield countless combinations to generate incredible magical visual effects. The SE-500HD is definitely a tool that will keep up with your innovation. Also designed specifically for the AV market, the SE-500HD also provides a built-in mixer that allows entry of the microphone voice and other external audio effects, thereby integrating voices of celebrities into the video. The RCA audio output is designed for audio monitoring or connection to an amplifier. The SE-500HD is a single machine that is equipped with multiple functions, effectively perfecting each of your video streams during every broadcast.

BC-80
IP Block Camera

The BC-80 HD block camera is a small size HD camera operated by an infra-red remote control. It is suitable for HD camera shooting in places where space may be a concern. BC-80 supports 1080p60 resolution as well as 30X optical zoom. Video output interfaces are SDI and HDMI. Tally indicators can be found above the lens of the BC-80 camera. The control protocol is Sony VISCA so the camera can be operated via RS-422 or DVIP port.

CAP-1
SDI to USB 3.0 Capture Box

CAP-1 is a plug and play SDI to USB capture box, supporting 1080p50/60 high speed capturing. The box is compatible with multiple operating systems and provides Line-IN jack for audio switching. Audio source can be embedded audio or external Line-IN audio. Compared to other UVC devices, CAP-1 offers a much higher degree of flexibility.

CAP-2
HDMI to USB 3.0 Capture Box

CAP-2 is a plug and play HDMI to USB capture box, supporting 1080p50/60 high speed capturing. The box is compatible with multiple operating systems and provides Line-IN jack for audio switching. Audio source can be embedded audio or external Line-IN audio. Compared to other UVC devices, CAP-2 offers a much higher degree of flexibility.

Specification

Model Name	SE-500HD
Product Name	HD/SD 4-Channel Digital Video Switcher
Video Standard	HD & SD
Video Format	1080i 50/59.94/60Hz 720p 50/59.94/60Hz 576i 50Hz 480i 59.94Hz
Video Processing	SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB 4:4:4
Input Routable / Crosspoint	All 6, repeatable
Video Input	6x HD-SDI, 2x HDMI (on CH5 & 6)
Computer Graphic Interface	2 via HDMI
Video Output	6x SDI Outputs assignable: AUX 1-4, PGM, PVW, PGM Clean & multi-view 2x HDMI assignable: PGM or multi-view
Built-in Multi-view Monitoring Out	2x HDMI
Audio Input	4x Balanced XLR
Audio Output	2x Balanced XLR
Embedded Audio Support	Input up to 16 channels, Output 4 channels
A+V Switching	Yes
Title Creator	Yes
DSK	1x DSK support Lumakey & Linear key (Key / Fill)
Picture in Picture	2
Logo Insertion	2 (or 1 logo + 1 clock)
Still Store	6
Effects	FTB, Cut, 8 Wipe with border
Transition Preview	PiP & DSK
Sync / Reference In/Out	Built-in Genlock (internal)
Tally Output	1x D-sub 25pin, dual color
PC Remote Control	Via Ethernet (free Window software) or RS-422 / RS-232
Special Features	6x 6 Matrix seamless switch Built inTC-200 CG interface
Chassis	2 units, 2RU rack-mount mainframe
Dimension (LxWxH)	433 x 312 x 76 mm (switcher) 432 x 252 x 88 mm (main unit)
Weight	6.1 kg
Power	DC 12V, 32W
Operating Temp. Range	0~40 ° C

Model Name	BC-80
Product Name	HD Block Camera
Video format	1080i 50/59.94/60Hz 720p 50/59.94/60Hz 576i 50Hz 480i 59.94Hz
Image Sensor	1/2.8″ type progressive scan CMOS sensor
Effective Pixels (approx.)	2.14 Mega pixels
S/N Ratio	50 dB
Min. Illumination	Color : 0.4 lx (F1.6, 1/30 sec, 50IRE, Gain: High) B/W : 0.03 lx (F1.6, 1/30 sec, 50IRE, Gain: High)
Electronic Shutter	1/25 (1/30), 1/50 (1/60), 1/75(1/90), 1/100, 1/120 (1/125), 1/150(1/180), 1/215(1/250), 1/300(1/350), 1/425(1/500), 1/600(1/725), 1/1000, 1/1250(1/1500) sec
Zoom Ratio	30x Optical Zoom
Gamma Control	Off / Normal / Standard Mode 1-4
Iris Control	Auto / Manual
Digital Noise Reductions	Yes
On-Screen Display (OSD)	English
White Balance	AWB, MWB, One push WB, Outdoor, Indoor, Fluorescent
AGC / Gain Control	Auto / Manual (0 to 28 step) Max. Gain Limit (6 to 28 step)
Mirror / Flip Image	Yes
Focus Mode	Auto / Manual
Focal Length	f=4.3 mm (WIDE) to 129 mm (TELE) F1.6 to F4.7
Field of View (Horizontal, Wide)	Approx. 63.7° (WIDE END) / 2.3° (TELE END)
Image Compensation	Day & Night function
Video Output	HDMI (V1.3) x 1 3G-SDI x 1
Tally LED	Dual color (Red, Green)
Filter	M52.0 x 0.75 Thread with UV Protection
Protocol	VISCA / DVIP Protocol
Remote Control Interface and Transmit Distance	RS-422: Transmit up to 1000m DVIP (RJ45): 100m
F/W Update	USB
IR Control	Yes
Camera Control Unit	RMC-180/RMC-300C
Tripod Mount	1/4-20 UNC
Options	PTR-10
Color	Dark blue
Dimension (LxWxH)	71 x 202 x 83 mm
Weight	0.7 kg
Operating Temp. Range	0~40 ° C
Power	DC 12V 15W

Model	CAP-2
Product Name	HDMI to USB 3.0 Capture Box
Input	1x HDMI
Output	1x USB 3.0 (Type A)
Input Video Bandwidth	150MHz (pixel clock rate)
Output Video Bandwidth	Up to 350MBps (USB)
Supported Input Video Formats	1920 x 1080p 60/59.94/50/30/29.97/25/24/23.976 1920 x 1080i 60/59.94/50 1680 x 1050p 60 1600 x 1200p 60 1440 x 900p 75/60 1400 x 1050p 60 1366 x 768p 60 1360 x 768p 60 1280 x 1024p 75/60 1280 x 720p 60/59.94/50 1024 x 768p 75/60 800 x 600p 75/60 720 x 576p 50 720 x 480p 60 720 x 576i 50 720 x 480p 60 640 x 480p 75/60
Supported Output Video Formats	1920 x 1080p 60/50/30/25/24 1680 x 1068p 60 1440 x 1080p 60 1440 x 896p 60 1360 x 768p 60 1280 x 768p 60 1280 x 720p 60/50 1024 x 768p 60 960 x 536p 60 848 x 480p 60 768 x 576p 60 720 x 480p 60/50 640 x 480p 60 640 x 360p 60

Model	CAP-2
Audio Input	HDMI Embedded Audio & Line in Stereo
Audio Format	2 Channel, 44.1 and 48KHz sample rate, up to 24 bit PCM
Recording Mode	Software Compression
Recording Video Format	YUY2 (USB3.0), MJPG (USB2.0/3.0)
Firmware Update	Via USB Port
Software Compatibility	Windows: Amcap, Google Plus Hangouts, OBS (Open Broadcast Software), Skype, VLC, Xsplit Broadcaster, Zoom.us Linux: VLC, OBS Mac OS X: OBS, Quicktime player, VLC, Facetime
Supported OS	Via USB
Power Supply	2W
Power Consumption	0~40° C
Operation Temperature	-20~60° C
Storage Temperature	20~90% RH (no condensation)
Humidity	Windows® 7(SP1) / Windows 10 / Windows 8.1 / Windows 7 (x86, x64) Note: The driver is required for Windows 7 OS OS X (10.10 or above) Linux Ubuntu 14.04 PC: Intel® CoreTM i5-4440 3.10GHz + NVIDIA® GeForce® GTX 660 or higher Laptop: Intel® Core i7-4810MQ + NVIDIA GeForce GTX 870M or higher 4GB RAM or higher
Minimum System Requirement	105 x 68 x 23 mm
Dimension (LxDxH)	TBC
Weight	

datavideo
www.datavideo.com

Ver.20190910