https://pro.sony/en_BF/products/video-switchers/mcx-500

MCX-500

Multi-Camera Live Producer



New opportunities

Watch Now

Live events increasingly rely on video to attract customers, enliven presentations and turn a profit via live streaming or selling recordings. The MCX-500 is ideal for a wide range of live and recorded applications from pop concerts to weddings, educational seminars to corporate presentations, and meetings at houses of worship. Using the MCX-500, you can go beyond simply capturing an event to transforming it into an experience that engages everyone.

Meet any challenge



Today's event might be simply mixing together multiple video inputs to support a presenter's on-stage presentation. Tomorrow's event might be creating a program for distribution across multiple screens in a vast conference hall. Next week's event might be live streaming, either via PC or Mac or directly from the MCX-500 itself using Ustream® with a router*. Whatever the event, it's simple to give your customer an immediate recording of the event thanks to a built-in SD Card slot – no external recorder needed or time lost assembling a post-event cut.

**In regions where Ustream® is not available, alternative services may be supported. Please consult with your local Sony Professional Solutions Specialist Dealer.*

Events that excite and engage



Keeping an audience's interest during an event can be challenging. The MCX-500 puts at your fingertips a set of features to easily transform any event: cut between multiple cameras with a wide-range of broadcast quality transitions, mix in a secondary video feed with picture-in-picture, put a presenter in front of live or recorded video using Sony's broadcast standard chroma key technology. 8 video inputs, plus a dedicated DSK channel (total 9 inputs) for on-screen graphics and a 5-channel audio mixer give you everything needed to wow an audience.

Working smarter



To minimise your workload, the MCX-500 offers hassle-free integration with camcorders such as the HXR-NX5R. The lightweight RM-30BP remote controller allows you to control all the key features of suitable camcorders while sitting at your control desk. It also allows tally signals to be sent to connected camcorders, so a camera operator knows when each camcorder is on-air. Work faster, more efficiently with MCX-500's advanced workflow.

Go solo or team work made easy





The MCX-500 makes it easy for a single operator to run a professional live event. Multi-view monitoring puts all your sources on a single display. To keep your eyes on the action, all the main functions are accessible via physical controls that are easy to operate without looking away from the action for a second. More advanced features can be tuned to your exact workflow requirements and mapped to an LCD touchscreen control with customisable ICON buttons. You can even remote operate or extend the control functions of the MCX-500 via PC, Mac or Tablet over Ethernet or WiFi*.

**External WiFi router required.*

Smart controls with configurable LCD touchscreen



If you're running the show on your own, you need controls that suit the way you work – intuitive and yet somehow also fully featured. The MCX-500 achieves this by carefully thought out physical controls that you will find easy to operate without looking away from the action for a second.

More advanced features can be tuned to your exact workflow requirements and mapped to an LCD touchscreen control with easily recognisable ICON buttons. Trigger the sophisticated effects you've pre-defined with a single touch on a user-defined ICON. It's a robust, user-friendly system that's easily extended to bring in additional team members as productions grow.

Mix between 8 video sources + 1 Title (total 9 inputs)



The switcher is designed to expand your operations for full control of a multi-camera shoot. There is no need to worry about swapping out inputs during a production – the MCX-500 features no less than 8 video inputs (plus dedicated Title input) to easily accommodate any small-to-medium sized production. Inputs include professional 3G-SDI (x4), standard HDMI (x2) and even composite video (x2), allowing you to connect a wide variety of cameras and other equipment. A dedicated RGB Title input allows you to connect a PC or Mac to use as a dedicated source of titles for your production.

Gallery

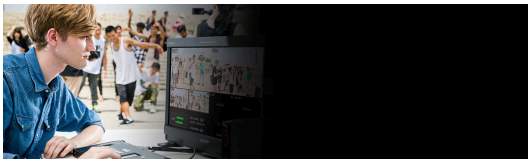








Multi-view monitoring



See all your sources simultaneously on one display. The switcher’s multi-view output makes it easy for you to see all your sources and outputs on a single screen. Monitoring on the multi-view is always four inputs.

Advanced titles and effects

The MCX-500 allows you easily to create advanced video effects such as Chroma key, transitions and PinP (Picture in Picture).





Transitions

Cut, Mix and Wipe effects allow you to select the pattern, timing and more of each transition. The switcher lets you set-up your transitions beforehand or do it manually on the fly. You can also easily add effects and titles with a one-button operation both before or after a transition.

Chroma key

Superimpose a presenter over a background video or static image with pin-sharp accuracy using chroma key technology developed for Sony's MVS Series broadcast switchers.



PinP (Picture in Picture)

To insert a second picture into your main footage, simply choose its size and position, then push live.



Insert and overlay titles

Down-stream key (DSK) function will automatically erase the white background and overlay the title for you. A dedicated RGB (DSK) computer input allows you instant access to titles stored on an external computer to overlay onto your video, freeing up your other eight inputs for camera.



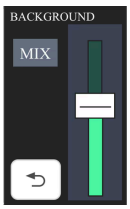
Overlay Logo

Your logo data can be uploaded from an SD card and using the logo function you can overlay the graphic on the screen.

**Logo function requires version 2.0 firmware.*

All on-screen graphics simulated, for illustration purposes only.

Manual transition





For complete control over transition effects, select this option and use interactive slider to make the transition effects as quick or slow as you like.

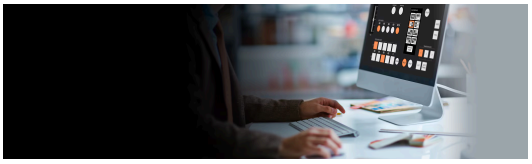
Requires version 2.0 firmware.

Stream content live over the internet



The MCX-500 is ideal for live streaming events and productions. The switcher allows you to live mix the output of multiple sources with direct streaming in real time using services such as Ustream®. Share scenes as they happen with high quality picture and sound, direct from the MCX-500 to a router via Ethernet – no PC required.

PC, Mac and Tablet integration



The MCX-500 is designed to allow you to control multi-camera shoots in the most flexible way possible. Plug-in an Ethernet cable or WiFi router to open up a fully functional control interface that can be viewed on a standard web browser with PC, Mac or Tablet. Use browser tabs to click between the Switcher's main control panel and advanced settings, including the simple set-up of easily recognisable ICON buttons.

Worldwide full HD support

MCX-500 is a global model allowing you to record a variety of HD standards depending on your needs. You can record AVCHD Full HD 1920×1080 60i/50i or 1440×1080 60i/50i. Even higher quality is available with advanced XAVC S codec with progressive recording at 60, 50, 30 and 25 fps options at 50 Mbps.

	Format	Colour space/bit rate	Max rate
HD	XAVC S (50)	4:2:0/ 8bit	50 Mbps*

Record direct to SD memory card



An internal memory card slot means all you need to record your production is an SD card, affordable and widely available with no need for an external recorder. As soon as the shoot wraps, you can provide the customer with a high quality AVCHD recording to archive, re-broadcast or even re-edit into a highlights package on any leading non linear editing software.

Audio mixing of up to five channels including XLR



You can perform a sophisticated multi-channel stereo audio mix in the MCX-500 with no need for an external audio mixer. With a stereo XLR (left/right) interface for external sources, the audio mixer function allows you to mix XLR inputs and four channels of embedded audio. You can control all five stereo channels individually, including intuitive audio level control on the LCD touchscreen control panel, mixing channels and also linking the audio to the video. Pre-Fader Listen (PFL) allows you to monitor each audio source before executing the mix.

Seamless integration with Sony camcorders and PTZ cameras



The MCX-500 works with some of the most popular Sony compact camcorders such as the HXR-NX5R and also remote cameras including BRC Series PTZ (Pan Tilt Zoom) HD camera.

Synchronised recording of connected cameras

You can trigger the recording of connected camcorders through the MCX-500 and record the output on SD memory card in the switcher.

Affordable tally system

Tally signals can be sent to the connected camcorders so you always know which camcorder is live on-air. A tally indicator will automatically appear on each camcorder's LCD panel and Electronic View Finder – a red icon indicates when the shot is live (PGM) while green indicates preview mode (PVW).*

**Compatible camcorders only.*

Tutorials

View below videos to see how simple MCX-500 is to operate.

Basic set-up

Transitions

Recording and streaming

Chroma Keying

Specifications

General	
Power requirement	DC 12V, Approx. 23W
Dimensions (W x H x D)	362 × 43.5 × 206 mm (Approx.)
Mass	Approx. 2.1 kg

System

Video format	1080/59.94i Hz (60i) 1080/50i Hz (50i)

Streaming

Protocol	AVC / RTMP / RTMPS 1920x1080 at 9Mbps 1280x720 at 3Mbps 640x360 at 1Mbps

Recording

Format	AVCHD
Media	Memory Stick ProDuo, Memory Stick PRO-HG Duo, Memory Stick XC-HG, SD, SDHC, SDXC memoy cards (Class 4 or higher)

Video switcher

Function	Input : 8 Primary Video inputs ＋ Title, 4 Channel 1 M/E + 2 Keyer (1 x PinP, 1 x Title) Output : PGM Output, Multi View Output
Key Type	Luminance Key / Chroma key

Audio mixer

Function	Input: Analog Stereo (x1) / Stereo Embedded Audio inputs (x4) Mixing: Stereo Mixing (x5) Output: PGM (Stereo) (x1)

Video input

SDI	BNC (x4), 75 Ω, 3G SDI/HD/SD SMPTE 292M/259M/424M/425M
HDMI	Type A (x2) (720x480/576p, 1280x720p, 1920x1080i/p)
VIDEO input	BNC (x2), NTSC/PAL VIDEO: 1.0 Vp-p 75 Ω, negative sync
Title	D-Sub Shrink 15-pin (x1) (Female) RGB (1600x1200)

Video output

HD SDI	BNC (x1, PGM) 75 Ω, 1.5 Gbps, 270 Mbps SMPTE 292M

Video output	
HDMI	HDMI (Type A) (x1, PGM) (720x480/576p, 1280x720p, 1920x1080i/p) HDMI (Type A) (x1, Multi View) (720x480/576p, 1280x720p, 1920x1080i/p)
VIDEO output	BNC (x1) VIDEO: 1.0 Vp-p 75 Ω, negative sync

Audio input	
Embedded audio input	SDI/HDMI　16bit, Sampling；48HKHz
Analog input	XLR/TRS Combo Type ((CH-1, CH-2))

Audio output	
Embedded audio output	SDI/HDMI　16bit, Sampling；48HKHz
Analog output	Phono jack (CH-1, CH-2)
Headphones	Stereo mini jack (x1)

Other interface	
LAN	RJ-45 (x2, PC UI Streaming), 100BASE-TX, 1000BASE-T
USB2.0	USB Type-miniB (x1)
Option	ϕ3.5mm jack (x1)
TALLY	D-Sub 9-pin (x1) (male)

Downloads and resources

Brochures

Brochures: XDCAM NXCAM Family Brochure Spring 2019

Notice: USTREAM (IBM Cloud Video) TLS version update

Knowledge

MCX-500 V2.11 (Win + Mac)

Contact us

Accessories



RM-30BP

Remote Commander

Related products



PXW-FS7

4K Super 35mm Exmor CMOS sensor XDCAM camera with α Mount lens system, 4K/2K RAW and XAVC recording options



PXW-FS5

Grab and Shoot with handheld Super 35



HXR-NX5R

Three 1/2.8-inch Exmor CMOS sensors Full HD AVCHD / XAVC S camcorder with 40x zoom with Clear Image Zoom and built-in wireless functionality.



PXW-Z150

Compact handy camcorder delivers broadcast quality 4K and Full-HD



BRC-H800

Premium Full HD PTZ Camera with 12x optical zoom and uncompromising broadcast picture quality



PXW-FS7M2

4K Super 35mm Exmor CMOS sensor XDCAM camera with Variable ND Filter, E-Mount (Lever Lock), 4K/2K RAW and XAVC recording



LMD-B170

17-inch cost-effective, lightweight basic grade Full HD LCD monitor for versatile use



RM-IP500

PTZ Camera Remote Controller



BRC-X1000

Premium 4K30P PTZ Camera with 12x optical zoom and uncompromising broadcast picture quality



HXR-NX80

1.0 type Exmor RS™ CMOS sensor palm-sized NXCAM camcorder with XAVC S, Fast Hybrid AF, & Instant HDR Workflow



PXW-Z90

1.0 type Exmor RS™ CMOS sensor palm-sized XDCAM camcorder with XAVC 4K, Fast Hybrid AF, Instant HDR Workflow & 3G-SDI



PXW-FS5M2

'Grab and shoot' Super35 handheld camcorder with stunning new creative look, 4K 120fps HFR and HDR, α Mount lens system, Variable ND Filter, 4K/2K RAW and XAVC recording



PXW-Z190

4K Handheld Camcorder with all-new 1/3-type 3CMOS with 4K 50p/60p* recording capability, 25x zoom lens and advanced Face Detection AF



HXR-NX200

1.0-type Exmor R™ CMOS Sensor 4K, NXCAM camcorder with all-new default look, 24x zoom (FHD Clear Image Zoom), 3 independent manual lens rings plus XAVC S, AVCHD and DV. (PAL-only)



LMD-A170

17-inch lightweight Full HD high grade LCD monitor for studio and field use



LMD-A240

24-inch lightweight Full HD high grade LCD monitor for studio and field use



LMD-A220

21.5-inch lightweight Full HD high grade LCD monitor for studio and field use



BRC-X400

Premium 4K30P IP PTZ Camera with 30x (w/CIZ) zoom and NDI®|HX capability for use in a wide range of environments



SRG-X400

Standard 4K30P IP PTZ Camera with 30x (w/CIZ) zoom and NDI®|HX capability for a wide range of applications



SRG-X120

Standard 4K30P IP PTZ Camera with 12x optical zoom and NDI®|HX capability for a wide range of applications



MCX-500

Multi-Camera Live Producer

MCX-500 - Sony Pro

© 2004 - 2026 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.

Export PDF : November 18 2026