ProRes 4K
Dual Disk Recorder

HDR-80 | HDR-90

(Desktop/Rack Mount)

4K ULTRA HD

ProRes

ProRes 4K
Dual Disk Recorder

ProRes **4K ULTRA HD**

- 5" touch screen LCD with intuitive UI for easy operation
- Build-in comprehensive suite of scopes, calibration and focus tools for video monitoring and playback
- Support 12G-SDI and HDMI 2.0 connections for all HD and UDH video format up to 2160p60
- Record up to 4 HDMI sources (in 1080p) at the same time as separate ISOs with quad-split preview
- Support up to 8 channels of digital audio on SDI and HDMI and balanced analog audio input and output with an on-screen eight-track audio indicator
- Monitor audio via 3.5mm headphone jack or built-in speakers
- Dual 2.5" SSD for unlimited recording duration; as one drive fills up recording continues on the next drive automatically
- Support ProRes 422 Proxy, ProRes 422 LT, ProRes 422, ProRes 422 HQ, 10 bit 4:2:2 recording
- Internal or external LTC time code for tracking recorded videos, perfect for multi-camera setup
- Accept external sync (black burst or tri-level) with loop-out for seamless integration with broadcast systems
- Closed captioning support saves captions as meta data in recorded .mov files
- Compatible with various external controls via DVIP, GPI or RS-232 interfaces

HDR-80

ProRes 4K Recorder - Desktop

HDR-90

ProRes 4K Recorder - Rack Mount

ProRes 4K Recorder - Desktop

HDR-80 and HDR-90 are two ProRes 4K recorders that record video on two SSD hard drives. HDR-80 is a desk top model meant to be used on a table top and the HDR-90 is a rack mounted version for OB Vans or other integrated systems. Both recorders have a high resolution 5" LCD touch screen on the front for video monitoring, device settings and configuration. The monitor also provides complete suite of scopes and calibration tools such as waveform, vector scope, focus peaking to ensure perfect recording.

HDR-80/90 is able to record video in resolutions up to 2160p60 using the available SDI and HDMI interfaces at the back. SDI is available in bitrates all the way from HD up to 12G-SDI while HDMI connections support both HDMI 2.0 and 1.4 technology. With multiple HDMI and SDI inputs you can also record up to four 1080p sources at the same time, using the HDR-80/90 as an ISO recorder. A PGM output also doubles as a switcher, since you can switch between sources seamlessly with a simple tap on the screen.

Dual SSD drives ensure sufficient storage for long duration recording. As one disk fills up, the recording automatically continue on the next disk. It's easy to expand video storage by swapping a single disk. Extra features include closed captions support and professional connections including Genlock, Timecode, Serial and IP controls.

4K

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Preview

1. Input 1
2. Input 2
3. Input 3
4. Input 4
5. Input 5
8. Input 8
9. Input 9
10. Input 10

MOBILE CAST
12-CH HD PORTABLE VIDEO STREAMING STUDIO

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HDR-80
PRORES VIDEO RECORDER

MIN   MAX

SD SLOT

REC   00:00:08:25

Status   Video Input   ProRes   SSD1   SSD2
2160p59.94   PXY

MENU   CLIP
SEL DRIVE
USB

HDR-80

ProRes 4K Recorder - Desktop

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HDR-80
4K PRORES VIDEO RECORDER

MIN   MAX   🎧

SD SLOT

00:00:

Status   Video Input
⟳ ▶ 32x   2160p
CH 1 2 3 4 5 6 7 8

A recorder designed for a multi-camera production environment.

ProRes 4K Dual Disk Recorder and Four HD Video Cameras facilitating live video recording.

Front view

HDR-80

ProRes 4K Recorder - Desktop

GPI

RS-232/422

PWR

PUSH

CH
2

NEW TIDE

3   2

GEN-LOCK

TIME
CODE

OUT   ←   IN

OUT   IN

DC IN
12V
+   -

3G/12G-SDI

3G-SDI

IN 1   OUT   IN 2   IN 3   IN 4

REC 00:00:08:25

Status Video Input ProRes
2160p59.94 PXY ● SSD1 ○ SSD2

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SD CAR

POWER

MENU CLIP ◀◀ ● ▶II ■ ▶▶ SEL DRIVE

AUDIO OUT CH 1 CH 2 AUDIO IN PUSH CH 1 PUSH CH 2 GPI RS-232/RS-422

OUT ← IN OUT IN

GEN-LOCK TIME CODE
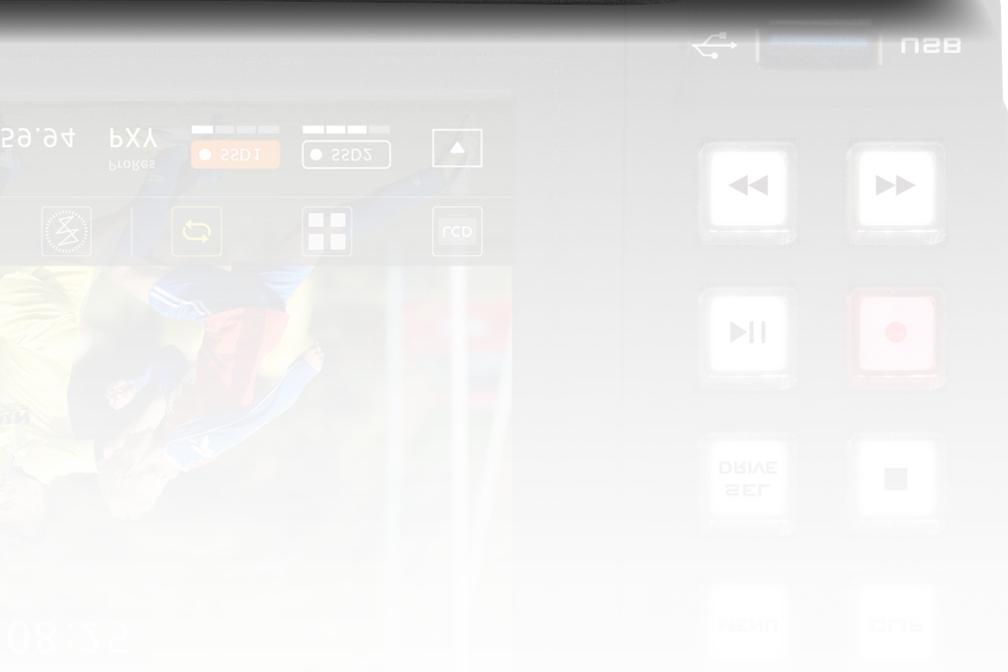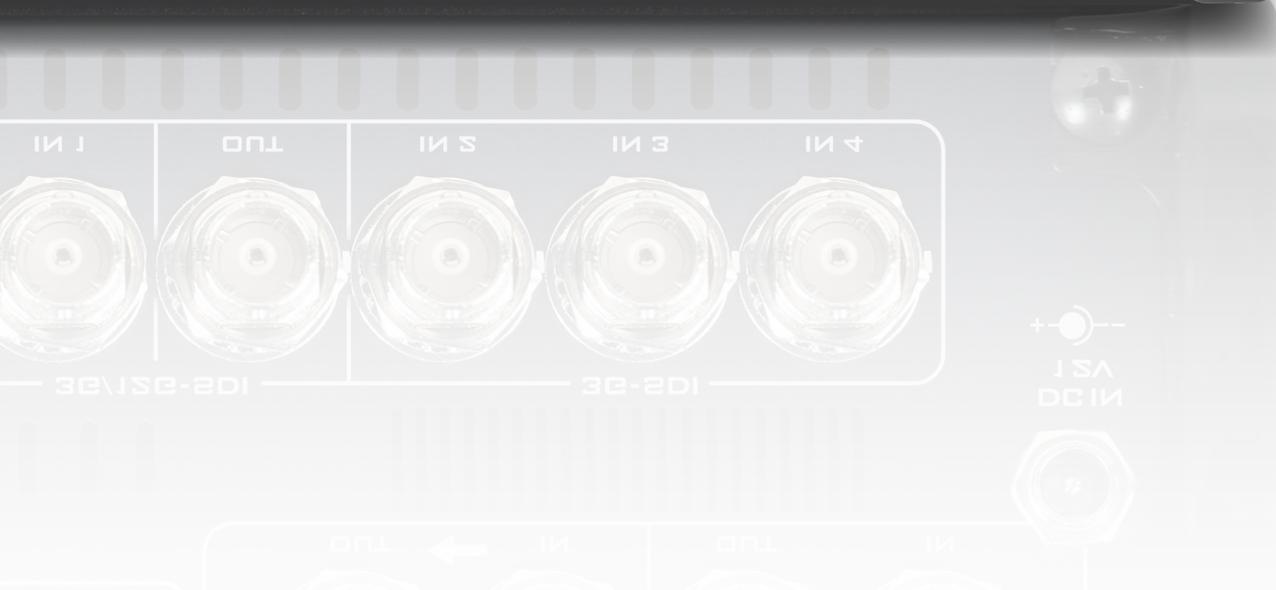
Rack mount recorder designed for Outdoor Broadcast Van

ProRes 4K Dual Disk Recorder and Four HD Video Cameras facilitating live video recording.

HDR-90

ProRes 4K Recorder - Rack Mount

Front view

Rear view

ISO Recording of four videos, , 3G ISO recording and HD playback

Not just for single camera setup, HDR-80/90 can record up to four 1080p60 streams simultaneously to separate ProRes files. All files are synced with the same time code, making it easy for tracking during post production.

A recorder that can be operated like a video switcher

The HDR-80 is not only a ISO recorder, it can also be used as a four channel HD video switcher. Display all four sources in quadview, you can cue and simply tap the touch screen to switch seamlessly between cameras. PGM output can even be used for live streaming.

Three input setups

The three input setups are designed for 3G ISO recording and HD replay.
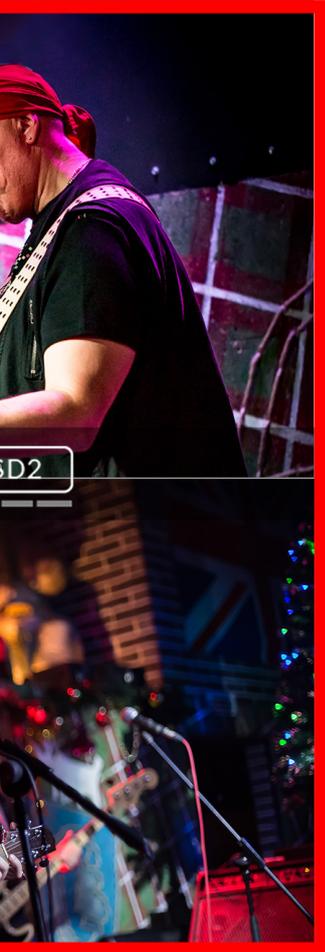
Input Channel Setup

Setup 1	SDI 1	SDI 2	SDI 3	SDI 4
Setup 2	HDMI 1	SDI 2	SDI 3	SDI 4
Setup 3	HDMI 1	HDMI 2	SDI 3	SDI 4

Back
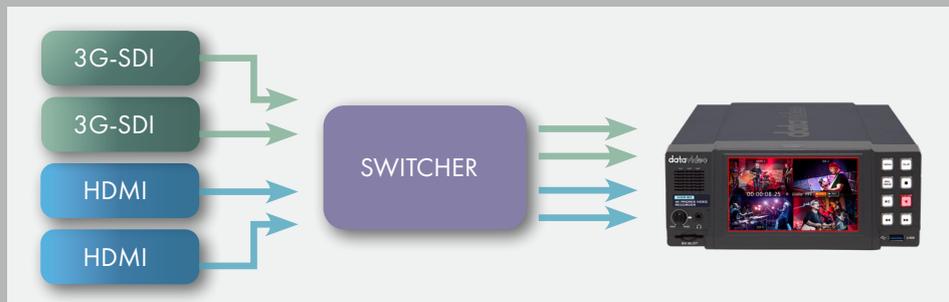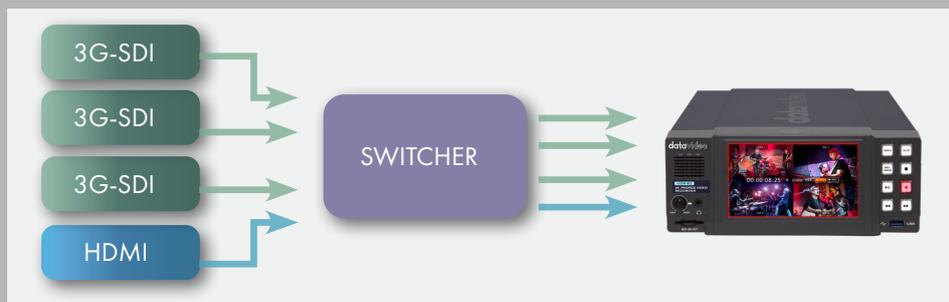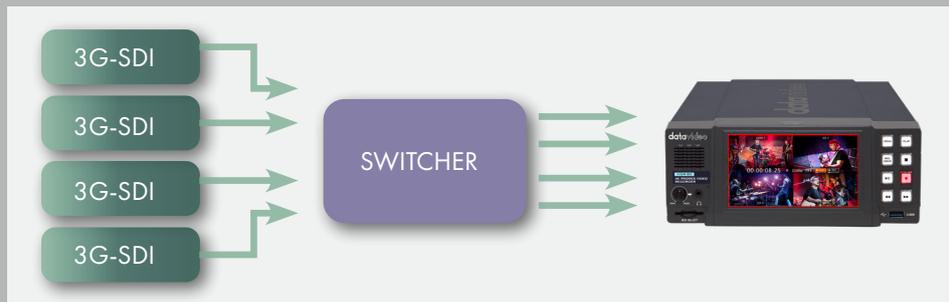
Vector Scope

HDR-80/90's built-in vector scope allows you to monitor your record video quality.
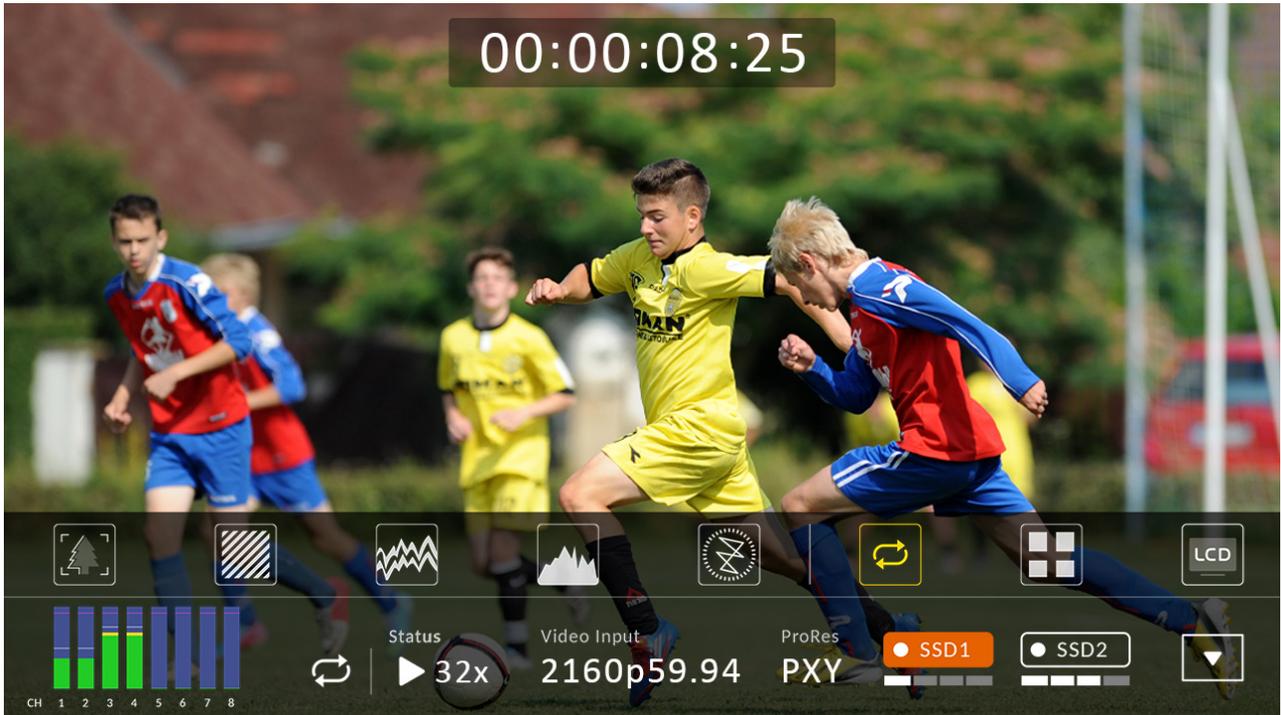

Focus Peaking

Focus peaking works by detecting edges of highest contrast in your scene and highlighting them in red color.


Zebra Pattern

Zebra pattern is a feature that overlays some stripes onto the image that indicate exposure levels. Areas that are close to overexposure will be laid a striped pattern acting as a warning indicator to the user that the highlights are blown out and not recorded and the user should adjust the exposure accordingly. The zebra function is a very useful feature in checking the amount of brightness to which the subject has been exposed.
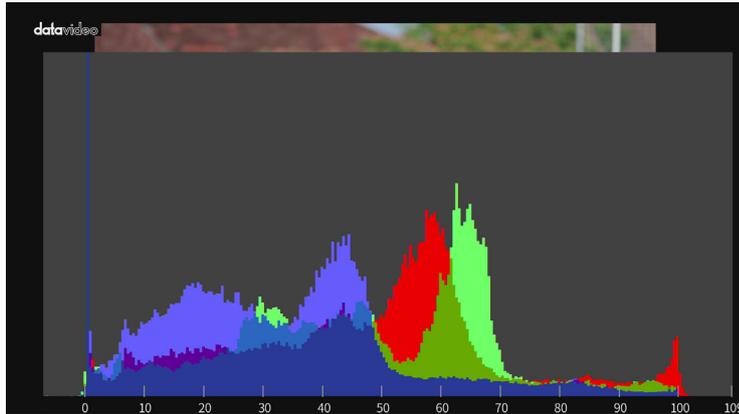
Histogram

A histogram is a graphical representation of the tonal values of your image. Dark tones are displayed on the left side and tones get lighter as you move rightward. Vertical axis displays the amount of tones . In general, an evenly distributed image should yield a bell-shaped curve as most tones should gather in the middle portion of the histogram between darkest and lightest tones.
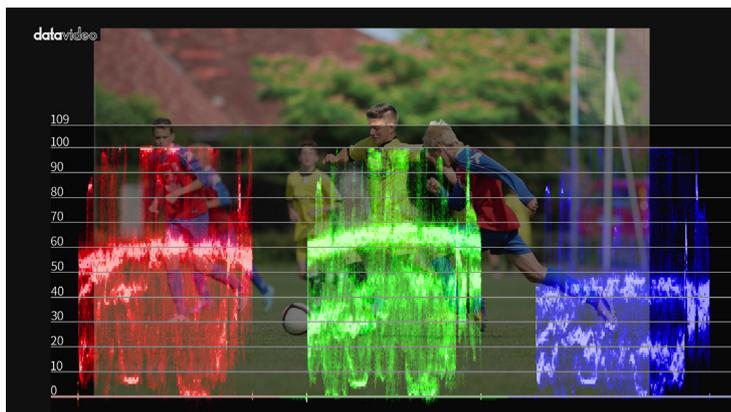
RGB Parade

The RGB parade is a helpful tool to separate out the three color channels of digital video in order to improve your video edits.

Vector Scope

The Vector Scope is used to measure Hue and Saturation in a video image. The proximity a signal to the color markers on the rim indicate what color it is. If the signal gathers at the center, it means the video image has no color information or simply black-and-white. It may not help if your video image contains too much skin tones but it is definitely a good tool for monitoring the image colors.

Features

UHD 4K Recorder with 10-Bit 4:2:2 ProRes Compression

Supports up to 4K UHD recording with four ProRes compression levels, giving you the best balance of image quality and file size.

Multiple Input/Output Interfaces

Supports one 4K HDMI input, one 12G SDI input and three 3G-SDI input as well as video outputs with embedded audio.

Easy post-edit and playback

Compressed videos are saved on two 2.5" SSD drives. If one disk is full, recording will automatically continue on second disk. It's easy to expand storage for continuous recording.

Genlock for Synchronization

Equipped with broadcast quality time code and use black burst or tri-level as video reference for synchronization.
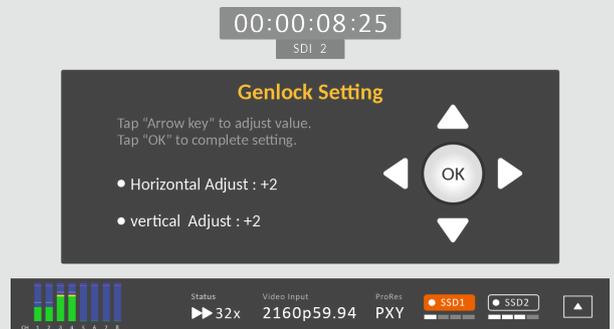
Close Caption

With closed caption support, embedded captions on SDI inputs can be encoded as meta data in recorded .mov files.
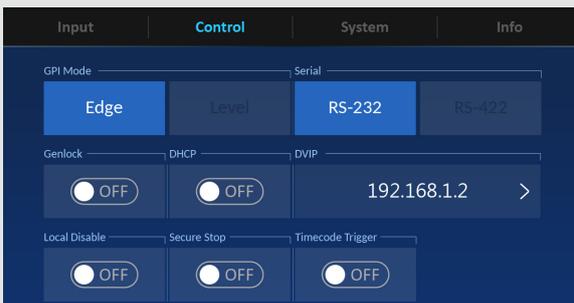

Instant video playback

Simply tap the touch screen to start playing the recorded video.

4K Recording System

4K Camera

HDMI

HDMI

HDMI

PPT

HDMI

SE-500MU 4K

XLR   XLR

Audio Mixer

PGM
HDMI

(HD)

NVS-33

Internet

AUX
HDMI

4K

HDR-80

HDMI

4K
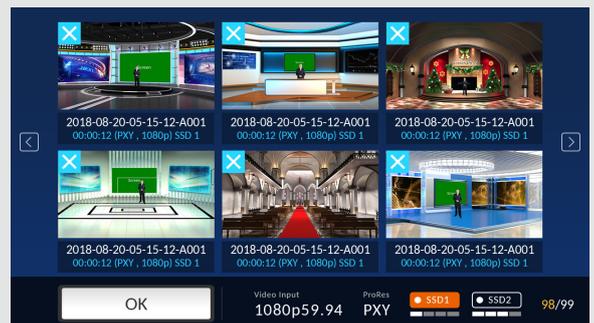
PGM
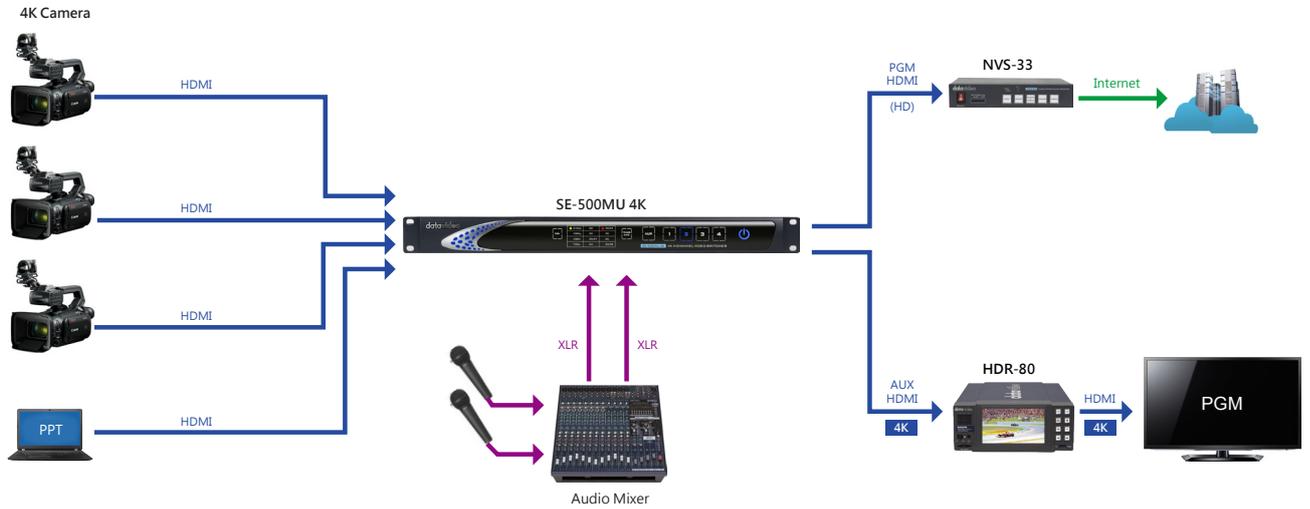
HD Multi-Camera Recording System

RMC-300C

PTC-140

HD-SDI

HD-SDI

HD-SDI

HD-SDI

HD-SDI

HD-SDI

Cat6

HUB

Camera Control
Camera Control
Camera Control
Camera Control
Camera Control
Camera Control

CG

HDMI

PPT

HDMI

XLR   XLR

Audio Mixer

HS-3200

PVW   PGM

CH1 CH2 CH3   CH4 CH5 CH6
           PPT   CG

Internet

Streaming Platform

HD-SDI
HD-SDI
HD-SDI
HD-SDI

HDR-80

Backup Recorder

HDMI

Projector   OR   PGM

LED Outdoor Screen
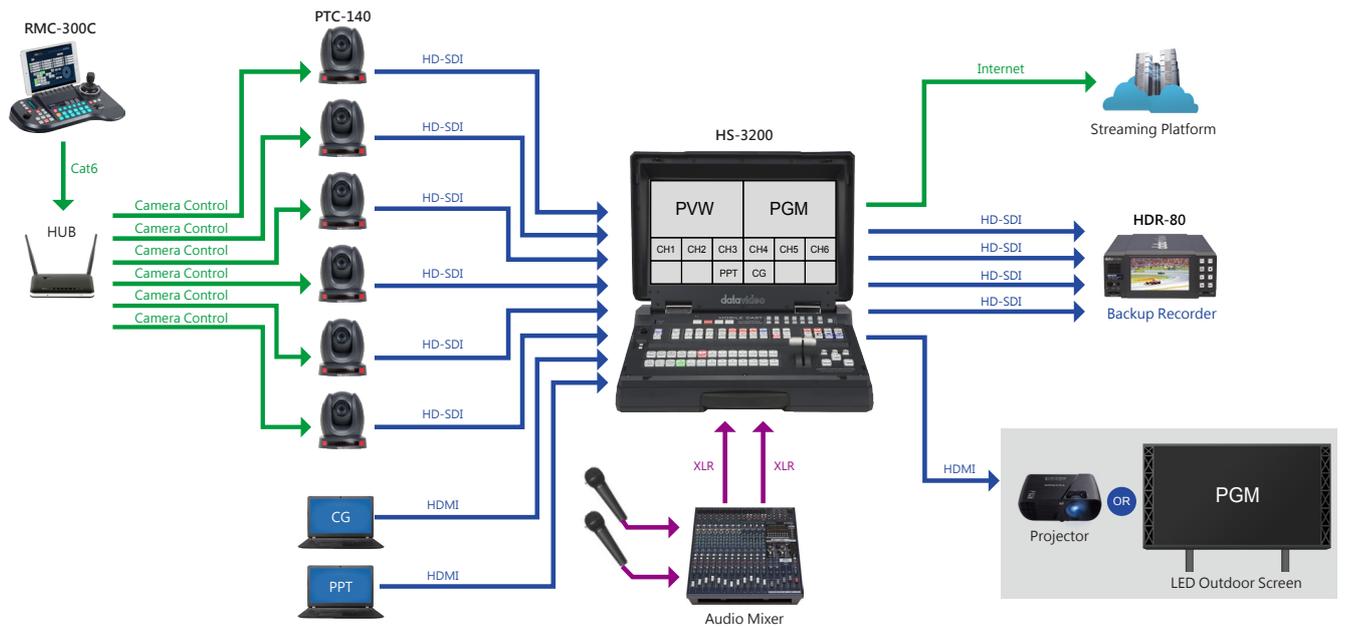
System Accessories

Datavideo has designed many accessories to help you use the recorder in various production environments.

A tray accommodating two HDR's

Stands to lift the HDR

Disk enclosure

Specifications

	HDR-90	HDR-80
Product Name	ProRes 4K Video Recorder-1U Rackmountable	ProRes 4K Video Recorder-Desktop
Video Standard	UHD & HD	UHD & HD
Video Format	2160p 23.98/24/25/29.97/30/50/59.94/60Hz 1080p 23.98/24/25/29.97/30/50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz	2160p 23.98/24/25/29.97/30/50/59.94/60Hz 1080p 23.98/24/25/29.97/30/50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz
Supported Video Input Signal	1x 3G/12G-SDI, 3x 3G-SDI 1x HDMI 2.0, 1x HDMI 1.4	1x 3G/12G-SDI, 3x 3G-SDI 1x HDMI 2.0, 1x HDMI 1.4
Video Output	1x 3G/12G-SDI 1x HDMI 2.0, 3x HDMI 1.4	1x 3G/12G-SDI 1x HDMI 2.0, 3x HDMI 1.4
Analog Audio Input	2x Balanced XLR	2x Balanced XLR
Analog Audio Output	2x Balanced XLR	2x Balanced XLR
Embedded Audio	SDI Input / Output (8CH) HDMI Input / Output (8CH)	SDI Input / Output (8CH) HDMI Input / Output (8CH)
Storage Medium	2.5" SSD	2.5" SSD
Multi-channel Recording	Yes, 4-CH HD	Yes, 4-CH HD
Estimated Record Time (min per 10GB)	HD: 27 (Proxy), 11.5 (LT), 8 (Standard), 5.5 (HQ) 3G: 13 (Proxy), 6 (LT), 4 (Standard), 2.5 (HQ)	HD: 27 (Proxy), 11.5 (LT), 8 (Standard), 5.5 (HQ) 3G: 13 (Proxy), 6 (LT), 4 (Standard), 2.5 (HQ)
Recording Media	2x 2.5" Removable SSD	2x 2.5" Removable SSD
Storage File System	exFAT	exFAT
Recorded File Format	QuickTime .MOV	QuickTime .MOV
Video Recording Bit Rate / Color Sampling	ProRes 422 HQ ProRes 422 ProRes 422 LT ProRes 422 Proxy	ProRes 422 HQ ProRes 422 ProRes 422 LT ProRes 422 Proxy
Audio Recording Format	Uncompressed PCM Sampling rate 48KHz 24bit	Uncompressed PCM Sampling rate 48KHz 24bit
Preview Display	5" Touch LCD	5" Touch LCD
Time Code In / Out	Yes	Yes
External Sync / Genlock	Black Burst & Tri-level with loop thru	Black Burst & Tri-level with loop thru
External Control	RS-232/422 (Dsub 9pin), DVIP (Ethernet), GPI (3.5Ø phone jack)	RS-232/422 (Dsub 9pin), DVIP (Ethernet), GPI (3.5Ø phone jack)
Power Failure Protection	----	----
Chassis	1RU rack-mountable	Desktop
Dimension (LxWxH)	440 x 300 x 49 mm	313 x 220 x 97 mm
Weight	4 kg	2.8 kg
Operating Temp. Range	0~40 °C	0~40 °C
Power	DC 12V	DC 12V

Disclaimers of Product and Services
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be aware that it may contain errors and omissions. Prior to purchase, please check with your local Datavideo office or authorised distributor.

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