

HDR-80/90

ProRes 4K Dual Disk Recorder

datavideo



HDR-80



HDR-90

Overview

HDR-80 and HDR-90 are two ProRes 4K recorders that record onto two SSD 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 high quality video 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.

Features

- 5" touch screen LCD with intuitive UI for easy operation
- Built-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 formats 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

Recommended Accessories

- HE-4 Additional Hard Drive Enclosure
- RP-79 HDR-80 Rack Tray

Recommended Drives

- Samsung 870 EVO MZ-77E Solid State Drive 250gb
- Samsung 870 EVO MZ-77E Solid State Drive 500gb

HDR-80 Rear Panel Function



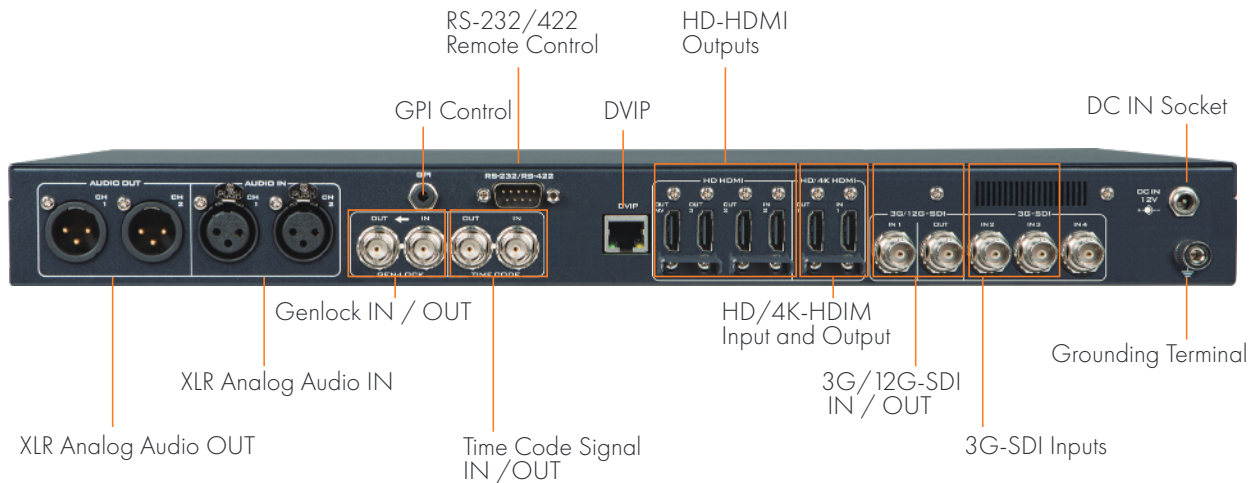
HDR-80 Front Panel Function



HDR-90 Front Panel Function

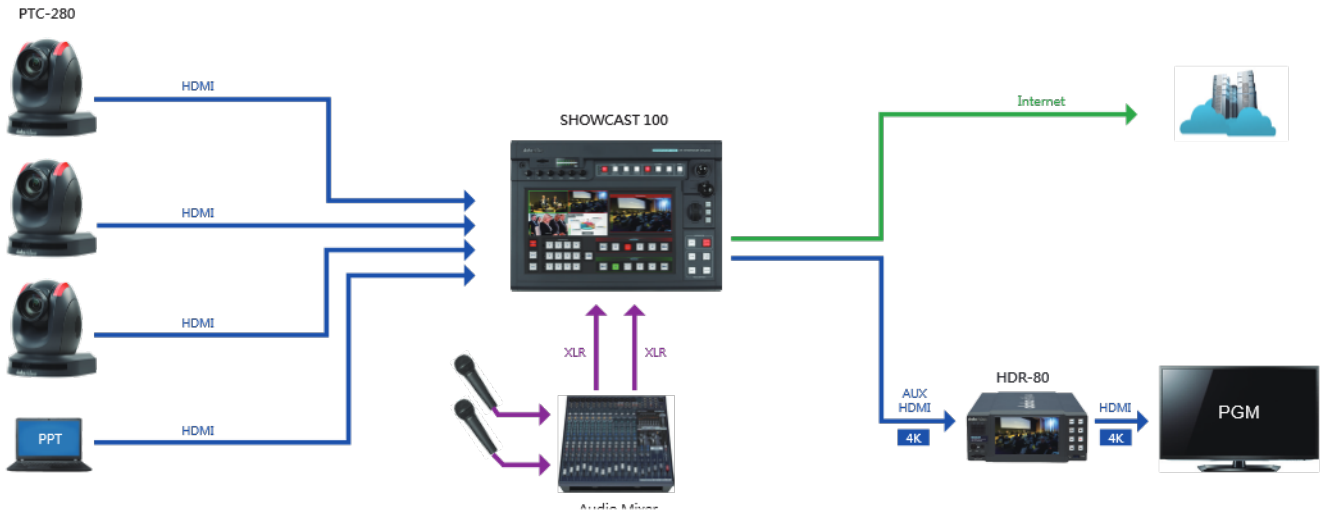


HDR-90 Front Panel Function

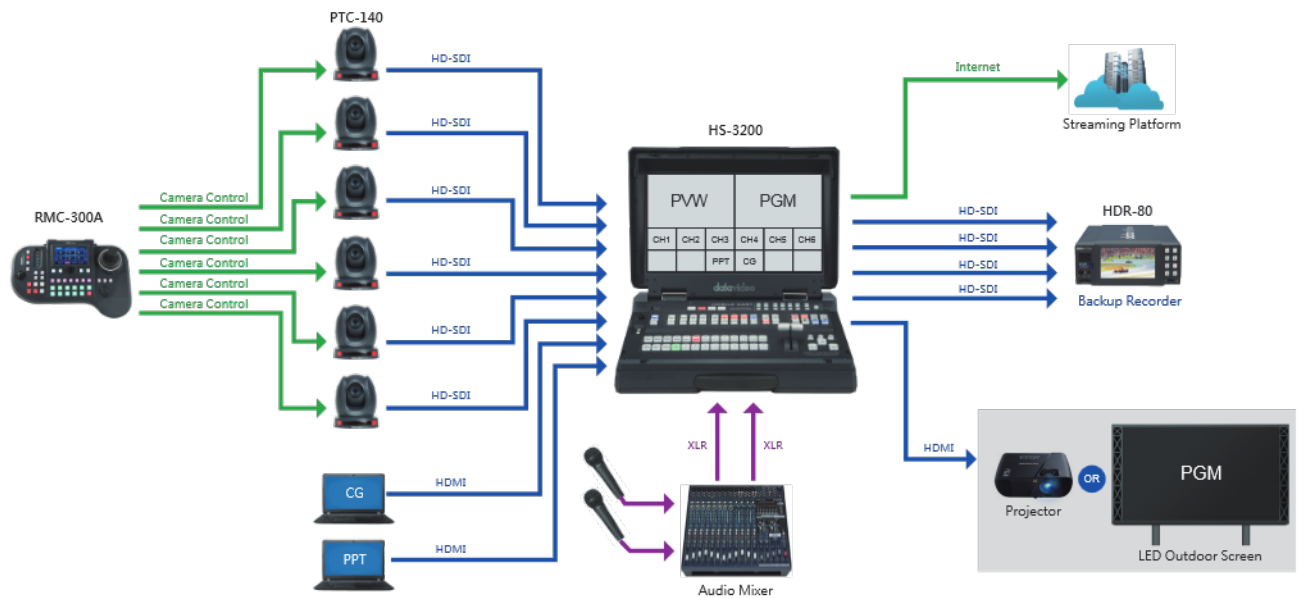


Workflow

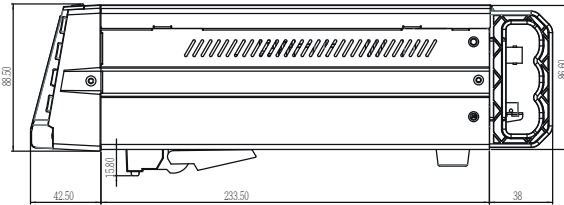
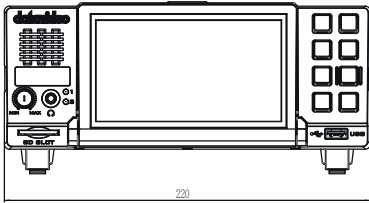
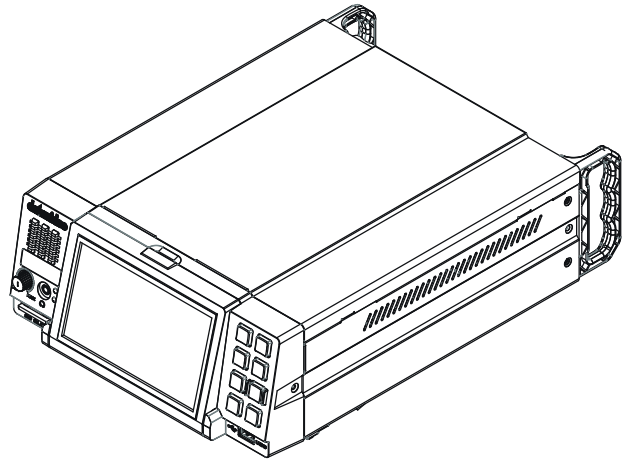
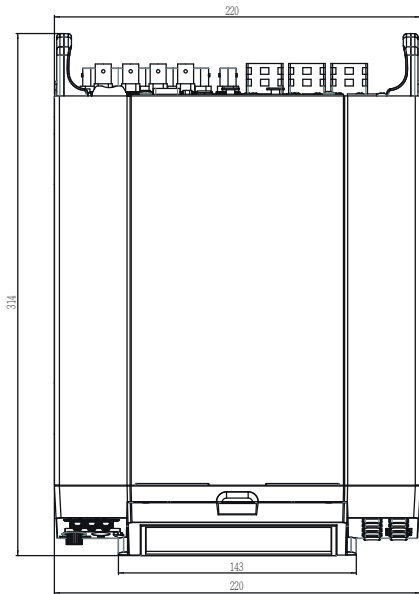
4K Recording System



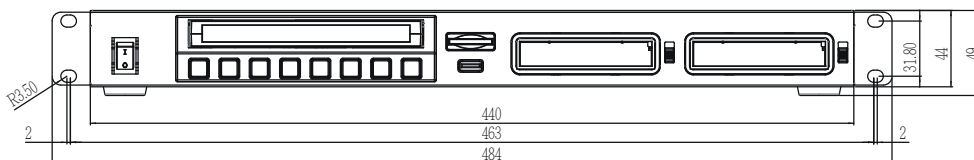
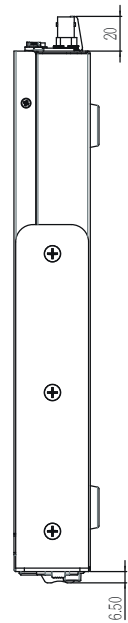
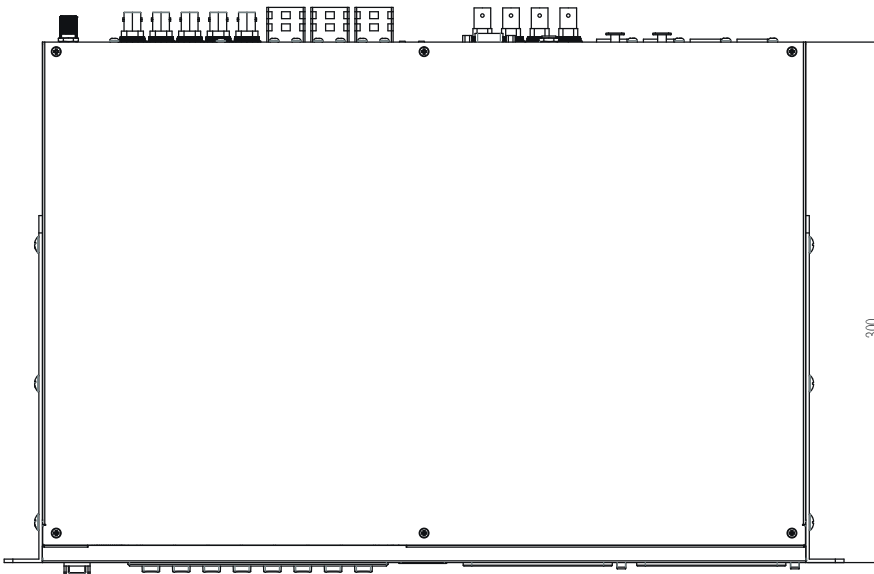
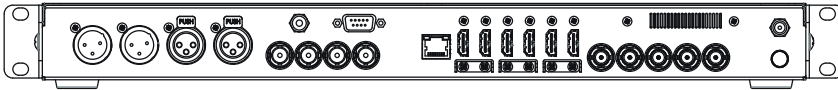
HD Multi-Camera Recording System



HDR-80 Dimensions



HDR-90 Dimensions



Specifications

HDR-90 | HDR-80

Video Standard	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
Supported Video Input Signal	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
Analog Audio Input	2x Balanced XLR
Analog Audio Output	2x Balanced XLR
Embedded Audio	SDI Input / Output (8CH) HDMI Input / Output (8CH)
Storage Medium	2.5 SSD
Multi-channel Recording	Yes, 4-CH HD
Estimated Record Time (min per 10GB)	256GB: 4K60: 1h21m (Proxy), 36m (LT), 25m (422), 17m (HQ) 3G: 5h6m (Proxy), 2h22m (LT), 1h40m (422), 1h7m (HQ) ITB: 4K60: 5h26m (Proxy), 2h26m (LT), 1h42m (422), 1h8m (HQ) 3G: 20h25m (Proxy), 9h30m (LT), 6h42m (422), 4h30m (HQ)
Recording Media	2x 2.5 Removable SSD
Storage File System	exFAT
Recorded File Format	QuickTime .MOV
Video Recording Bit Rate / Color Sampling	ProRes 422 HQ ProRes 422 ProRes 422 LT ProRes 422 Proxy
Audio Recording Format	Uncompressed PCM Sampling rate 48KHz 24bit
Preview Display	5 Touch LCD
Time Code In / Out	Yes
External Sync / Genlock	Black Burst & Tri-level with loop thru
External Control	RS-232/422 (Dsub 9pin), DVIP (Ethernet), GPI (3.5Ø phone jack)
Power Failure Protection	----
Chassis	1RU rack-mountable Desktop
Dimension (LxWxH)	313 x 220 x 97 mm 440 x 300 x 49 mm
Weight	2.8 kg 4 kg
Operating Temp. Range	0~40 ° C
Power	DC 12V, 3A
What's in the Box	HDR-80 1 x HDR-80 Main Unit 1 x Adaptor + AC Cord 2 x 2.5 Removable HDD/SSD Enclosure 8 x Screws for 2.5 Removable HDD/SSD Enclosure 2 x Blank Label 1 x SATA to USB Cable HDR-90 1 x HDR-90 Main Unit 1 x Adaptor + AC Cord 2 x 2.5 Removable HDD/SSD Enclosure 8 x Screws for 2.5 Removable HDD/SSD Enclosure 2 x Blank Label 1 x SATA to USB Cable 2 x Ear mount kit 6 x M4 x 8mm screws

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HDR-80

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- 2 x 2.5 Removable HDD/SSD Enclosure
- 8 x Screws for 2.5 Removable HDD/SSD Enclosure
- 2 x Blank Label
- 1 x SATA to USB Cable

HDR-90

- 1 x HDR-90 Main Unit
- 1 x Adaptor + AC Cord
- 2 x 2.5 Removable HDD/SSD Enclosure
- 8 x Screws for 2.5 Removable HDD/SSD Enclosure
- 2 x Blank Label
- 1 x SATA to USB Cable
- 2 x Ear mount kit
- 6 x M4 x 8mm screws

Applications

- Live Event
- e-sport
- Townhall
- Government Event
- Worship
- Sports
- Musical Performances

Available Documents to Download

- Cut sheet
- Datasheet
- Instruction Manual
- DVIP Control protocols



For more info, visit

www.datavideo.com/product/HDR-80



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