



The high-speed integration for Sports Broadcasting, Commercials & Films Production, and Documentaries.

Full broadcast image processing

Live and replay dual output
Up to 5,600 fps in 720p / up to 2,600 fps in 1080i
Instant replay

Segmented memory

Ramping of speed within a replay
Built-in intercom

Compatible with EVS ultra-motion mode



CAMERA SPINE

- Compatible with Vision Research HD and 4K Cameras
- Quicklock system
- SMPTE Fiber Optic Connection
- Red and Green Tally
- Built-in intercom
- Build-in Lens remoting
- Build-in lens power supply
- 2 microphone inputs
- Video Returns



OCP

- Joystick control (Iris, Black, Preview)
- RGB & Master Gains
- RGB & Master Pedestals
- Auto White/ Black Balance
- Gamma Control, Black Gamma
- Standard Color Matrix
- Saturation
- Flare compensation
- Detail enhancement
- Frame Rate/Shutter Control
- Setup settings (Format, Genlock, etc.)
- User presets



CCU

- HD-SDI Replay Signal
- HD-SDI Live Signal
- Size : 2U
- Only One Channel Necessary on Disk Recorder
- Two video return inputs
- Ethernet connections between CCU and remotes
- Bi-level, Tri-level Genlock Intercom
- Up to 1,000m between camera and CCU
- Remote updates



SLOW MOTION REMOTE

- User-Friendly Slow Motion Remote
- Easy Sequence Selection
- Auto-clip to EVS server
- Instant Replay
- Ramping of Speed Within a Replay
- Cueing System
- Multi-block Management
- Compatible with EVS Hypermotion Mode

	FULL HD 1080i		HD 720p	
	16 GB	32 GB	16 GB	32 GB
300 fps	17 sec	33 sec	40 sec	81 sec
500 fps	10 sec	20 sec	24 sec	48 sec
1,000 fps	5 sec	10 sec	12 sec	24 sec
Max fps	2,548 fps	2,548 fps	5,291 fps	5,291 fps
	1.9 sec	3.9 sec	2.3 sec	4.6 sec

CAMERA SPINE

GENERAL

Operation temperature	0-40 degrees C (32-104 F)
Mounting	V-Wedge Quicklock Mount
Dimensions (W x H x L)	210 x 75 x 400 mm
Weight	2.3 Kg (5.1 lb)

INPUT/OUTPUT CONNECTORS

Viewfinder connector	BNC type, 1.0Vp-p 75 Ω
DC (12V/1.5A)	5-pin Hirose
Lens connector	12-pin Hirose
Hybrid fiber connector	LEMO EDW.3K.93C.TLC / SMPTE 304 Tajimi / Fischer / Rosenberger connector (optional)

INTERCOM - AUDIO

Head set connector	5-pin XLR
Microphone input	2 x 3-pin XLR / 0 to 60 dB gain / 48V switchable supply / maximum input level 9dBu
Volume control	ENG, PROD, PGM

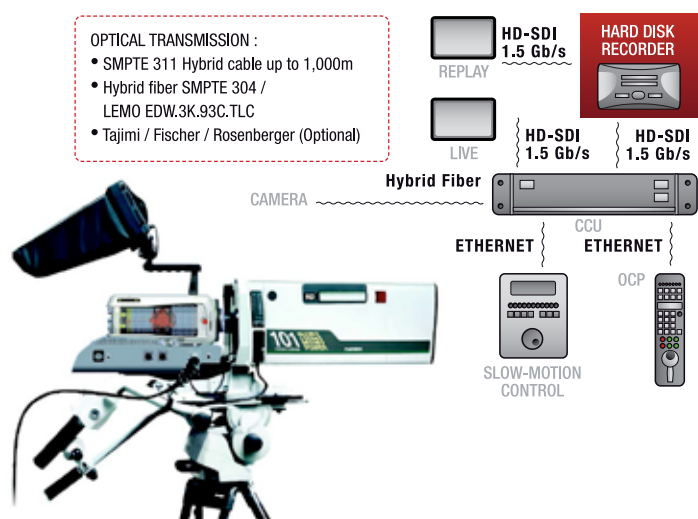
TRANSMISSION

Transmission cable	SMPTE 311 Hybrid Cable up to 1,000m
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Shed boxes available to use with ordinary single mode fiber (extended distance between CCU and camera)

X10 SPINE CAMERA SYSTEM WORKFLOW



CAMERA CONTROL UNIT (CCU)

GENERAL

Dimensions (W x H x D)	438 (19inch rack) x 88 (2U) x 465 mm
Weight	7 Kg (15.43 lb)
Operation temperature	0-40 degrees C (32-104 F)
Operation humidity	Max 80 % (non-condensing)

CONNECTORS

SDI-out	2 x BNC 1ch 1.0Vp-p 75 Ω
SDI-in	2 x BNC 1ch 1.0Vp-p 75 Ω
Control data	RJ45 x 2
Tally (R, G)	Dry-contact Inputs
Genlock	SD Analog Black Burst (Bi-Level) or HD Tri-Level Sync
Hybrid Fiber Connection	LEMO FMW.3k93C, SMPTE 304 Tajimi / Fischer / Rosenberger Connector (optional)

VIDEO OUTPUT & INPUT FORMATS

Video Output & Input Formats	HD-SDI 1080i 50 / 59.98 / 60 HD-SDI 720p 50 / 59.98 / 60
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INTERCOM - AUDIO

Line Level	+4dBu Nominal
Intercom ENG/PROD	4-wire System (Balanced)
Intercom PGM	Balanced line input / maximum input level 13dBu
Microphone preamp output	2 x 3-pin XLR / Balanced line level / Maximum output level 13dBu

POWER

Power requirements	AC 80 V to 240 V, 47 to 63 Hz
Power connector	IEC type, 3-pin male
Power consumption	280 VA max. with camera

OPERATIONAL CONTROL PANEL (OCP)

User Interface	Joystick, Graphical TouchScreen, Rotary Knobs
Power connector	XLR 4-pin 12 Vdc
Control Data	RJ45 / Up to 100m between CCU and OCP
Dimensions (W x H x L)	99 x 116 x 355 (323) mm
Weight	2 kg (4.41 lb)

SLOW MOTION CONTROL

Controls	Jog, Shuttle, Buttons
Power Connector	XLR 4-pin 12 Vdc
Control Data	RJ45 / Up to 100m between CCU and slow motion remote
Dimensions (W x H x L)	164 x 80 x 255 mm
Weight	1.5 kg (3.3 lb)