

DVR EXPRESS®

CORE 2 MAX



## Advanced High-Speed Digital Video Recorder with IRIG and GPS

### APPLICATIONS

Space Launch Imaging

Test Range Video Recording

Multi-Camera Motion Capture

Stereo and 3D PIV/PTV



### FEATURES INCLUDE:

- Reliable uncompressed video recording from Camera Link, CoaXPress or SDI video sources
- Long recording durations at high frame rates
- SDI video output for display during recording
- Precise timestamps with integrated IRIG input or optional single/dual-channel GPS receiver
- Connects easily to laptops or PCs via USB 3.0
- Includes easy-to-use CoreView™ software
- Optional SDK for programmers

#### EXAMPLE SYSTEM

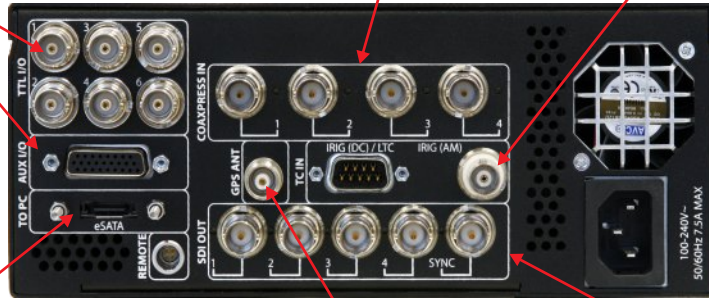


## REAR VIEW

Simple connections to TTL or LVDS synchronization signals via BNC or DB26

High-speed digital video inputs support up to four cameras

Integrated IRIG-A/B Receiver



2U half-width rack-mount chassis

High-speed connection to Control PC via eSATA or USB 3.0

Optional single/dual-channel GPS Receiver

High-definition real-time monitoring via 3G/HD-SDI

## AVAILABLE MODELS



- Records up to (4) cameras with Camera Link Base, Medium, Full or Full 80-bit output formats and clock rates up to 85MHz
- Area and Line Scan camera types supported
- Power over Camera Link (PoCL) provided on all ports
- Bidirectional ports allow pass-through repeat features instead of using separate Camera Link splitters; works for either (2) CL-Base cameras or (1) CL-Full camera

Supported Camera Link Connections

Model	Base	Med/Full	Base w. Repeat	Med/Full w. Repeat
CORE2CLMAX	4	2	2	1



- Records up to (4) cameras with CoaXPress single-link, dual-link or quad-link interfaces
- Link rates up to CXP-6 supported with no restriction on readout rate - supports any frame rate allowed by camera
- Area and Line Scan camera types supported
- Power over CoaXPress (PoCXP) provided on all ports

Supported CoaXPress Connections

Model	Single-Link	Dual-Link	Quad-Link
CORE2CXMAX	4 (up to CXP-6)	2 (up to CXP-6)	1 (up to CXP-6)



- Records up to (4) single-link SDI video sources simultaneously
- Flexible support for SD-SDI, HD-SDI or 3G-SDI connections
- Supported formats include SD, HD, 2K, UHD and 4K up to 60p
- Records SMPTE metadata (HANC/VANC) from each link including embedded audio channels or KLV metadata
- Includes (4) tri-level sync outputs to synchronize exposure between cameras from different vendors

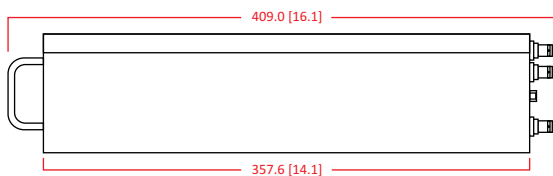
Supported SDI Connections

Model	Single-Link In/Out	Dual-Link* In/Out	Quad-Link* In/Out
CORE2SDIMAX	4	2	1

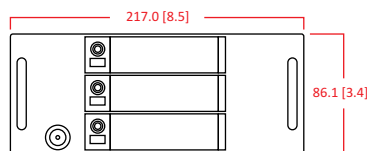
\*Dual-Link and Quad-Link connections support UHD/4K formats only

## MECHANICAL DIAGRAM

Side



Front



## COMMON FEATURES

### Supported Video Data Rate:

- Up to 2240 MB/s

### Video Storage Media:

- (3) Rugged Removable Drive Cartridges holding up to (6) IO Industries VidIO Drive Modules (solid state media)
- Up to 22.5TB capacity

### Connection to Control Computer:

- 6Gb/s eSATA (USB 3.0 adapter included)
- Required for configuration and operation
- Allows live video display, post-recording playback and video export to local storage

### Recording Format:

- Uncompressed (IO Industries file system)
- Images or clips can be exported to common file types using control software (AVI, BMP, JPG, TIF, RAW, etc.), archived to backup format, or accessed via SDK

### Control Software:

- CoreView™ or Streams™ 7 (SDKs available)

### System Requirements:

- Windows XP/Vista/7/8.1/10 (32/64-bit)
- Linux: Ubuntu 14.04 LTS (32/64-bit)
- Available eSATA or USB 3.0 port

### Time Stamping:

- High-precision time stamp per frame
- Integrated timecode receiver for IRIG-A/B (AM or DC) or SMPTE LTC
- Optional single/dual-channel GPS receiver

### SDI Video Output:

- (4) 3G/HD-SDI for low-latency real-time display and playback of recorded video
- Choose frame scaling or 1:1 mode

### Multi-DVR Synchronization:

- Master/Slave configuration allows time reference distribution and synchronizes recording start/stop across multiple DVRs

### Auxiliary Signal Input/Output:

- (6) Bi-directional TTL I/O
- (2) LVDS inputs and (2) LVDS outputs
- (1) Remote On/Off

### Mechanical / Electrical / Environmental

#### Dimensions:

- 409 x 217 x 86mm (16.1 x 8.5 x 3.4")

#### Weight:

- Approx. 6.4 kg\* (14 lbs)

#### Construction:

- Powder-coated galvanneal

#### Power:

- 100-240V AC, 50/60Hz, Approx. 58W\*

#### Shock/Vibration:

- TBD

#### Temperature:

- Operating: 0° to 45°C
- Storage: -20° to 60°C

\*Depending on model and installed media, excludes PoCL/PoCXP power for cameras

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## LET'S STAY CONNECTED!



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