





# Multi-Camera Uncompressed Digital Video Recorder

# **APPLICATIONS**

**High Speed Event Analysis** 

**Industrial Process Troubleshooting** 

**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
- · Live video display during recording
- · Precise time stamping and synchronization
- · Rugged, low-power and light-weight design
- · Connects easily to laptops or PCs via USB 3.0
- · Includes easy-to-use CoreView<sup>TM</sup> software
- · Optional SDK for programmers



### VAILABLE MODELS



- Record 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
- CORE2CLPLUS model has bidirectional ports allowing pass-through repeat features as well as output of recorded video over Camera Link, simulating up to (2) CL-Base cameras at once or (1) CL-Full camera

	Supported Camera Link Connections						
Model	Base	Med/Full	Base In/Out	Med/Full In/Out			
CORE2CL	4	1	n/a	n/a			
CORE2CLPLUS	4	2	2	1			



- Records up to (4) cameras with CoaXPress single-link, dual-link or quad-link interfaces with link rates up to CXP-6
- Area and Line Scan camera types supported
- Power over CoaXPress (PoCXP) provided on all ports when 24V AC adapter used (P/N COREPWRCXPxx)
- CORE2CXPLUS model supports four links at up to CXP-6 speed but the total readout rate must be reduced - contact IO Industries for more details and configuration suggestions

	Supported CoaXPress Connections			
Model	Single-Link	Dual-Link	Quad-Link	
CORE2CX	4 (up to CXP-3)	2 (up to CXP-3)	n/a	
CORE2CXPLUS	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 SDI link including embedded audio channels or KLV data packets Bidirectional ports allow dual-input/dual-output mode for (2) single-link cameras or (1) dual-link camera

	Supported SDI Connections					
Model	Single-Link	Dual-Link*	Single-Link In/Out	Dual-Link* In/Out	Quad-Link*	
CORE2SDI	4	2	2	1	1	

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

# COREVIEW<sup>™</sup> SOFTWARE



easy-to-use dialog

for recording one or

simple VTR-style operator controls



multiple video display windows

high-precision time stamps

pan and zoom displayed video or fit to window

seek to individual frames

## MECHANICAL DIAGRAM

Visit us at: www.ioindustries.com

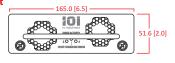
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## LET'S STAY CONNECTED!





# in @IO-INDUSTRIES

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# **Supported Video Data Rate:**

COMMON FEATURES

· Up to 1620 MB/s

#### Video Storage Media:

- Removable Drive Shuttle with up to (4) IO Industries VidIO Drive Modules (solid state media)
- Up to 15TB 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<sup>™</sup> or Streams<sup>™</sup> 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
- Time stamps can be synchronized to external IRIG or GPS time code receiver

### **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:**

· 325 x 165 x 52mm (12.8 x 6.5 x 2")

## Weight:

Approx. 1.7 kg\* (3.8 lbs)

Construction: Anodized aluminum

14-25V DC, Approx. 25W\*

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

\*Depending on model and installed media