

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
- \cdot Connects easily to laptops or PCs via USB 3.0
- Includes easy-to-use CoreView[™] software
 Optional SDK for programmers



AVAILABLE 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)

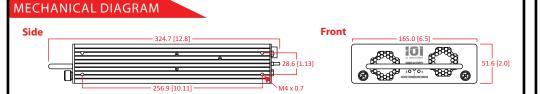


Records up to (4) single-link SDI video sources simultaneously
Flexible support for SD-SDI, HD-SDI or 3G-SDI connections
Supported formats include SD, HD, 2K, UHD and 4K up to 60p
Records SMPTE metadata (HANC/VANC) from each SDI link
including embedded audio channels or KLV data packets
Bidirectional 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						







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LET'S STAY CONNECTED!

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COMMON FEATURES



Supported Video Data Rate: · 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[™] or Streams[™] 7 (SDKs available)

System Requirements:

• Windows 7/8.1/10 32/64-bit • Ubuntu 16.04 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

Power: • 14-25V DC, Approx. 25W*

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

*Depending on model and installed media



Datasheet Rev. 3.3 (08/22/2019) Specifications subject to change without notice