RODEO™ VIDEO RECORDER

**Records high-performance cameras at...
the Studio, Stadium, Laboratory or Test Range**

APPLICATIONS

Multi-Camera Motion Recording

Volumetric Video Capture

4D Face/Body Scanning

Athletic Motion Recording

Test Range Recording

Industrial Troubleshooting
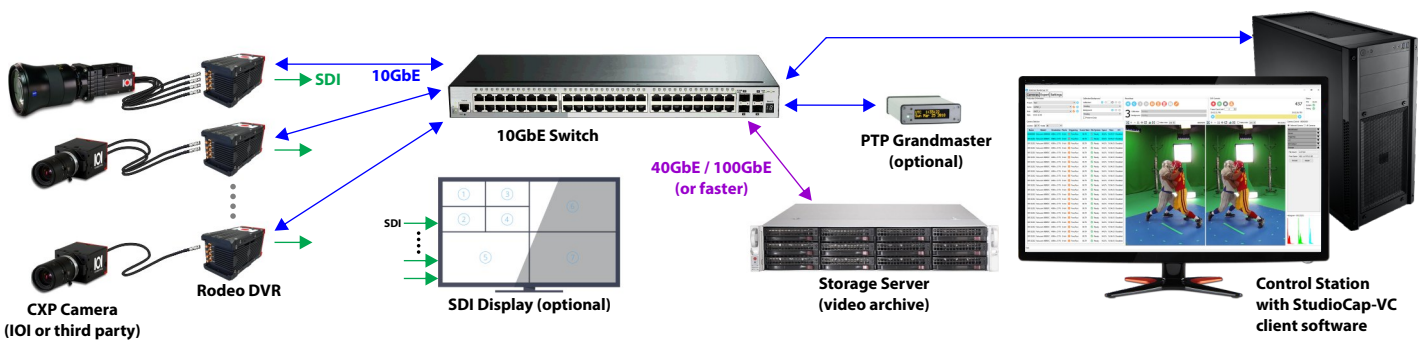
FEATURES INCLUDE:

- Records from IOI or third party cameras with CoaXPress video interface
- Reliable FPGA-based recording to internal SSD
- 10 Gigabit Ethernet (copper/fiber) for control, video streaming and high speed file download
- Low-latency SDI live video output
- Compact one-piece rugged design
- Intuitive software to easily connect, control and synchronize multiple DVRs and cameras
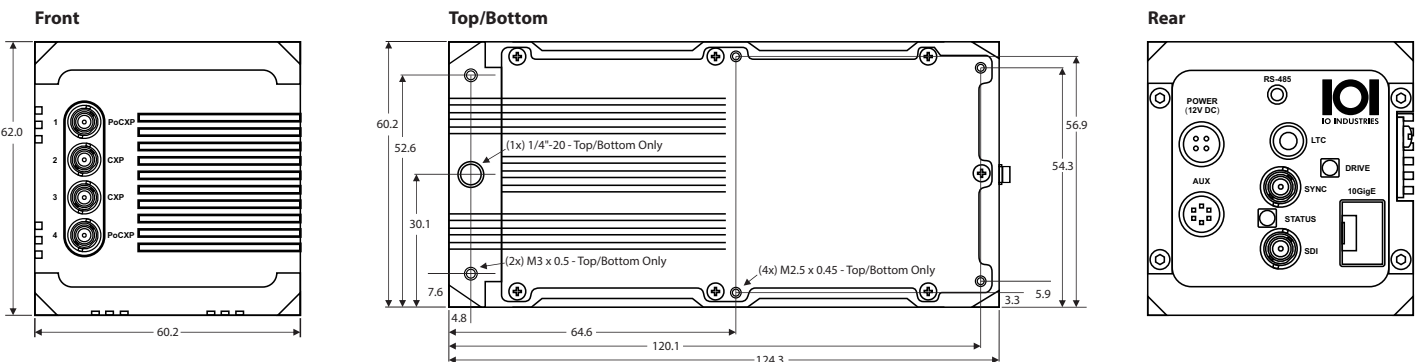
IOI IO INDUSTRIES

SPECIFICATIONS

Video Input	CoaXPress video from a single camera via 1/2/4 coaxial connections (max. 12.5 Gbps per link, max. 25 Gbps total).
Internal Recording	Lossless-compressed RAW recording to internal SSD (up to 1920GB capacity).
File Format	Recordings can be exported to uncompressed .DNG files or lossless-compressed .IOI files.
10 Gigabit Ethernet	Fast network interface for DVR/camera configuration, recording control, live and playback video streaming, and high-speed file transfer. SFP+ port allows various connectivity options including optical fiber or copper cabling.
SDI Video Output	Live video monitoring via 12G/6G/3G/HD-SDI, supports UHD/HD up to 60fps.
PTP Synchronization	IEEE1588 Precision Time Protocol can be used for frame timestamping and camera exposure synchronization.
SMPTE LTC Input	LTC reference can be used for frame timestamping and camera exposure synchronization.
Tri Level Sync Input	SMTPE HD sync reference can be used for camera exposure synchronization.
Additional I/O	TTL input/output (2-in, 3-out) for interaction with nearby devices, remote recording control, etc.
Control Software	IO Industries StudioCap-VC software or custom-developed application using StudioCap-VC SDK.
Mechanical/Electrical	
Dimensions / Weight	60.2 mm (W) x 62.0 mm (H) x 124.3 mm (D), 590g
Power Requirements	12V DC, approx. 14W plus power for camera via PoCXP (up to 26W). Universal AC Adapter available (RODEOPWR).
Operating Temperature	0°C to 30°C, 20-85% humidity (non-condensing).

SAMPLE CONFIGURATION

- CXP Camera (IOI or third party)
- Rodeo DVR
- SDI
- 10GbE
- 10GbE Switch
- SDI Display (optional)
- 40GbE / 100GbE (or faster)
- PTP Grandmaster (optional)
- Storage Server (video archive)
- Control Station with StudioCap-VC client software

MECHANICAL DIAGRAMS

Front — 62.0, 60.2, PoCXP (1), CXP (2), CXP (3), PoCXP (4)

Top/Bottom — 60.2, 52.6, 30.1, 7.6, 4.8, 64.6, 120.1, 124.3, (1x) 1/4"-20 - Top/Bottom Only, (2x) M3 x 0.5 - Top/Bottom Only, (4x) M2.5 x 0.45 - Top/Bottom Only, 56.9, 54.3, 3.3, 5.9

Rear — POWER (12V DC), RS-485, IOI IO INDUSTRIES, LTC, DRIVE, AUX, SYNC, 10GigE, STATUS, SDI

ORDERING

Part Number	Description
RODEOCX	DVR, Rodeo, CoaXPress, Single Camera
-VC	Optional embedded software license for IO Industries' Studiocap-VC, 1 year maintenance
RODEOPWR	AC Power Adapter (Universal), for Rodeo models
CABRODEOIO	Cable, I/O Breakout to (2) BNC, for Rodeo models

IO Industries Inc.
15940 Robin's Hill Road
London, Ontario, Canada, N5V 0A4
Tel: +1 519 663 9570
Email: sales@ioindustries.com

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