RODEO PLUS™ VIDEO RECORDER

Rack-Mountable

Added features for more demanding recording requirements

APPLICATIONS

Multi-Camera Motion Recording

Volumetric Video Capture

4D Face/Body Scanning

Athletic Motion Recording
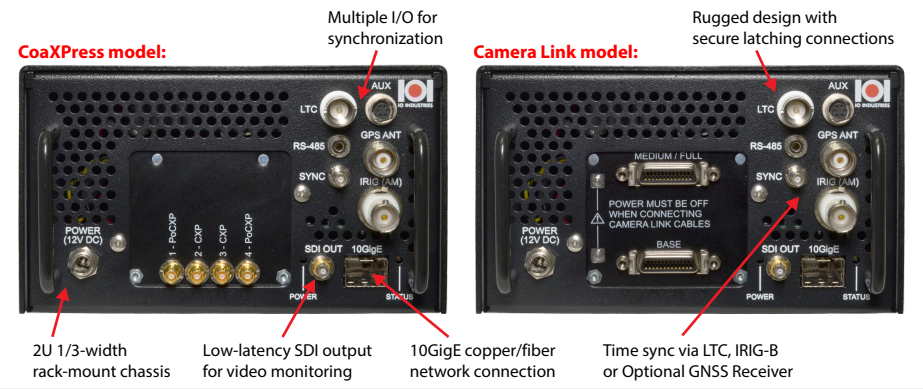
Test Range Recording
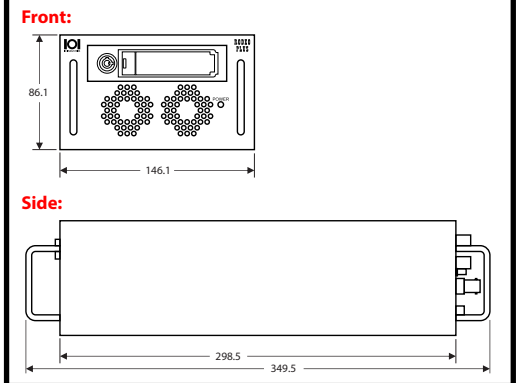
Industrial Troubleshooting

FEATURES INCLUDE:

- Lossless recording from high data-rate video cameras
- Supports CoaXPress and Camera Link cameras from IO Industries and other manufacturers
- Precise time-stamping from PTP, IRIG-B, GPS and other sources
- Control over 10 Gigabit Ethernet (copper or fiber)
- Internal SSD media, up to 15.4TB capacity (removable)
- Low-latency, live SDI video output
- Interactive software for PC-based control with SDK for custom integrations; MS-Windows and Linux support

IOI
IO INDUSTRIES

CoaXPress model:

Multiple I/O for synchronization

Camera Link model:

Rugged design with secure latching connections

POWER MUST BE OFF WHEN CONNECTING CAMERA LINK CABLES

2U 1/3-width rack-mount chassis

Low-latency SDI output for video monitoring

10GigE copper/fiber network connection

Time sync via LTC, IRIG-B or Optional GNSS Receiver

Front:

86.1

146.1

Side:

298.5

349.5

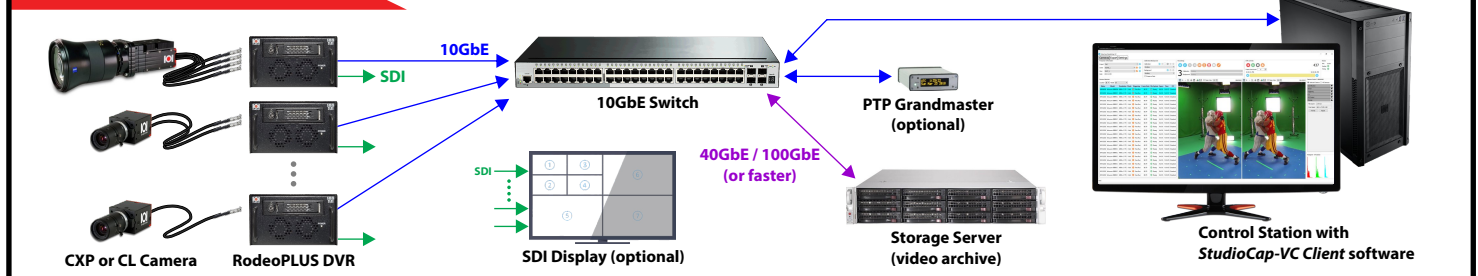|	
Video Input	CoaXPress video from a single camera via 1/2/4 coaxial connections (max. 12.5 Gbps per link, max. 25 Gbps total).
	Camera Link video from a single camera via 1-2 connections (CL-Base/Medium/Full/80-bit, max. 85MHz clock rate).
Internal Recording	Lossless-compressed (CX) or uncompressed (CL) RAW recording to internal SSD (up to 15360GB capacity).
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.
PTP Synchronization	IEEE1588 Precision Time Protocol can be used for frame timestamping and camera exposure synchronization.
IRIG Input	Integrated timecode receiver for IRIG-B amplitude-modulated signals (B122/B123/B126/B127)
GNSS Receiver	Optional multi-frequency/multi-constellation GNSS receiver can be used for frame timestamping, position logging and camera exposure synchronization.
SMPTE LTC Input	LTC reference can be used for frame timestamping and camera exposure synchronization.
SDI Video Output	Live video monitoring via 12G/6G/3G/HD-SDI, supports UHD/HD up to 60fps.
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 (MS-Windows/Linux).
Mechanical/Electrical	
Dimensions / Weight	146.1 mm (W) x 86.1 mm (H) x 349.5 mm (D), 1.85 kg
Power Requirements	12V DC, approx. 26W, plus power for camera (PoCXP/PoCL). Universal AC Adapters available (RODEOPLUSPWRxx).
Operating Temperature	0°C to 50°C, 20-85% humidity (non-condensing).

10GbE

SDI

10GbE Switch

PTP Grandmaster (optional)

SDI

40GbE / 100GbE (or faster)

CXP or CL Camera

RodeoPLUS DVR

SDI Display (optional)

Storage Server (video archive)

Control Station with *StudioCap-VC Client* software

Part Number	Description
RODEOCXPLUS-VC	DVR, RodeoPLUS, CoaXPress 2.0, Single Camera, CXP-6 Quad-Link or CXP-12 Dual-Link, embedded StudioCap-VC license (1yr maintenance)
RODEOCLPLUS-VC	DVR, RodeoPLUS, Camera Link, Single Camera, CL-Base/Medium/Full/80-bit, embedded StudioCap-VC license (1yr maintenance)
RODEOPLUSPWRxx	AC Power Adapter for RodeoPLUS models, various cord types (xx = NA, EU, UK)
CABRODEOIO	Cable, I/O Breakout to (2) BNC, for Rodeo and RodeoPLUS models
VIDIOMODxxxxxU2	VidIO Drive Module, U.2, various capacities (xxxxx = 3840, 7680, 15360)
-Gxx	Optional GNSS receiver for RodeoPLUS. Append to part number above eg. RODEOCXPLUS-VC-G03. See separate datasheet for details.
2USHELF	2U 19 inch Rack Shelf for (3x) RodeoPLUS

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