Endura® UDI5000-CAM Universal Device Interface

FLEXIBLE INTEGRATION PLATFORM FOR ENDURA AND THIRD-PARTY CAMERAS

Product Features

- UDI5000-CAM ONVIF Profile S Compliant
- Concurrently Runs Disparate Drivers in Support of MPEG4 or H.264 Compliant Third-Party IP Cameras
- Handles Command and Control Translations Between Endura® and Each Third-Party IP Camera in Support of PTZ Protocols
- Accommodates Cameras Supporting RTP, RTSP, TCP, HTTP Polling, and Several Custom Transmission Protocols
- Normalizes Camera Stream Parameters to Support Endura's Scalable, Real-Time Monitoring and Recording Capabilities
- Small, Independently Configured Servers Can Accommodate Up to 16 Standard Resolution Streams or Megapixel Streams (Depending on Camera, Vendor, and Bandwidth)

- No Additional Camera Connection Licenses Required

The **UDI5000-CAM** universal device interface is designed to allow third-party IP cameras to easily and transparently interface to the Endura® system. With the proliferation of IP camera technology, a great deal of variability exists between IP camera vendors in terms of supported protocols for streaming and command and control. While efforts are underway to create an industry standard, each vendor has and may continue to have several disparate protocols and drivers that their family of IP cameras support. The **UDI5000-CAM** provides an efficient way to normalize disparate drivers and protocols into a cohesive set that is compatible with Endura and the rest of Pelco's IP video surveillance portfolio.

Protocol Conversion and Stream Management

The **UDI5000-CAM** can easily accommodate camera streams that use HTTP polling, TCP, RTP, or RTSP protocols. Regardless of the streaming protocol the camera uses, the **UDI5000-CAM** converts the transmitted stream to an RTP header that is RFC1889/RFC3550-compliant for use by Endura.

Since Endura uses information such as the source time stamp placed in the user data section of the transmission packet, the **UDI5000-CAM** will inject this information if it is missing from the camera. And if the camera does not support multiple outgoing streams or multicast streaming, the **UDI5000-CAM** multiplexes the single stream into streams that can be used by an unlimited number of viewers and recorders.

The **UDI5000-CAM** converts command and control protocols used by the IP cameras into the SOAP/XML protocol used by Endura for camera control.

Convenient Scalability and Packaging

Endura's promise of unlimited scalability is extended to the use of third-party IP cameras through the **UDI5000-CAM**. Each **UDI5000-CAM** can accommodate up to 16 standard resolution cameras or up to 8 megapixel cameras from most manufacturers. Any combination of camera type and manufacturer is also supported. The built-in bandwidth monitor allows the administrator to maximize the number and type of cameras that each **UDI5000-CAM** can accommodate. To provide unrestricted scalability, each **UDI5000-CAM** is an independent server that can run multiple concurrent disparate drivers and normalization routines. This capacity virtually eliminates undue load on other Endura servers and components.

The **UDI5000-CAM** server is a half-width, 1 RU server. The compact size allows for two **UDI5000-CAMs** to be rack mounted next to each other in just 1 RU of space using the optional rack mount kit.

Network Administration and Upgradeability

The **UDI5000-CAM** supports Single Network Management Protocol (SNMP) monitoring and traps along with Endura diagnostic monitoring. As such, health status information is available through the Endura workstation or an external SNMP monitoring application.

The **UDI5000-CAM** complies with Endura's firmware upgrade scheme, allowing administrators to easily push out updated drivers and other utilities over the network as they become available from Pelco.

OPEN ARCHITECTURE

Support for third-party cameras Is provided through **UDI5000-CAM** ONVIF Profile S compliance. In addition to support for many IP-specific device drivers, Pelco supports MPEG4, ASP, and H.264 (Basic Profile) compression formats. Pelco is a member of the ONVIF Open Industry Forum.

TECHNICAL SPECIFICATIONS

MODELS

Use the following table to create a model number to specify your **UDI5000-CAM**. For example, the model number for a unit that includes a European power cord is UDI5000-CAM-EU.

Model	Country Code
UDI5000-CAM	-US = North America -EU = Europe -UK = United Kingdom -CN = China -AU = Australia -AR = Argentina

SUPPLIED ACCESSORIES

Power Cord	2 power cords (based on country designation) **Note:** Units shipped to China do not include power cords

OPTIONAL ACCESSORIES

RK-UDI5000	UDI5000-CAM rack mount kit; optional 1 RU rack mount assembly, hardware, and power supply support bracket

SUPPORTED CAMERA MODELS

The UDI5000-CAM supports several IP device vendors. For a complete list of supported cameras, go to *www.pelco.com*.

NOTE: The UDI5000-CAM does not support cameras streaming more than 30 images per second (ips).

SYSTEM

Operating System	Embedded Linux™

NETWORK

Interface	1 Gigabit Ethernet RJ-45 port (1000 Base-T)

FRONT PANEL INDICATORS

Buttons	Power
Indicators	
Power	Blue if power
Network Activity	Green, amber, red
Unit Status	Green, amber, red

POWER

Power Consumption	31.2 W, 107 BTU/H
Power Input	12 VDC ±10%

ENVIRONMENTAL

Operating Temperature	10° to 35°C (50° to 95°F) at unit air intake
Storage Temperature	–40° to 65°C (–40° to 149°F)
Operating Humidity	20% to 80%, noncondensing
Maximum Humidity Gradient	10% per hour
Operating Altitude	–15 to 3,048 m (–50 to 10,000 ft)
Operating Vibration	0.25 G at 3 Hz to 200 HZ at a sweep rate of 9.5 octave/minute

Note: The temperature at the unit air intake can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent performance failure and unit damage, make sure the temperature at the unit is continuously within the operating temperature range.

PHYSICAL

Construction	Steel cabinet
Finish	
Front Panel	Gray metallic with black end caps
Chassis	Black matte finish
Dimensions	31.3 x 21.6 x 4.3 cm (12.32" D x 8.5" W x 1.70" H)
Mounting	Desktop (feet) or rack (1 RU per unit, requires optional rack mount kit)
Unit Weight	3.0 kg (6.6 lbs)
Shipping Weight	3.6 kg (8.0 lbs)

RECOMMENDED PC REQUIREMENTS

Web Browser	Microsoft® Internet Explorer® 7 or later
Media Player	Adobe® Flash® Player 3.0

ENDURA SYSTEM COMPATIBILITY REQUIREMENTS

WS5200	Version 2.1 or later
VCD5202	Version 2.0 or later
NET5402R	Version 2.0 or later

CERTIFICATIONS

- CE, Class A
- FCC, Class A
- UL/cUL Listed
- C-Tick
- CCC
- ONVIF V1.02 Conformant

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