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**

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.

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

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.

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Country Code</th>
</tr>
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</table>
| 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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