

**Eventys EX 4 CRDN0410-PA Network Video Recorder (NVR)**  
**ARCHITECTURAL AND ENGINEERING SPECIFICATION**  
**DIVISION - LEVEL 1\_\_\_ 28 ELECTRONIC SAFETY AND SECURITY**  
**LEVEL 2\_\_\_28 20 00 ELECTRONIC SURVEILLANCE**  
**LEVEL 3\_\_\_28 23 00 Closed Circuit Video Surveillance Systems**

**PART 2 – PRODUCTS**

**2.01 MANUFACTURER / Supplier**

Vanderbilt International (IRL) Ltd.  
Clonshaugh Business and Technology Park  
Clonshaugh  
Dublin 17, Ireland

- A. This product shall be manufactured by a company whose quality system is in compliance with the ISO 9001, QUALITY SYSTEM.
- B. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- C. All systems and components shall have been thoroughly tested and proven in actual use.
- D. All systems and components must be in compliance with CE requirements.
- E. All materials furnished under this item shall be compliant with 802.3 Ethernet standard.
- F. The product shall be fully RoHS compliant.

**2.02 General Network Video Recorder (NVR) Description**

Eventys EX series NVR (Network Video Recorder) is a new generation of cost-efficient but technical high-grade network video recorder. Combined with multiple advanced technologies, such as audio and video decoding technology, embedded system technology, storage technology, network technology, intelligent VCA technology, integrated PoE switch and Alarm I/O. Eventys EX4 supports recording of up to 4 IP Video streams of up to 6MP resolution. The integrated 4 channel PoE Switch allows direct connection of PoE capable IP-Cameras without additional power supplies.

**2.1 EMBEDDED NETWORK VIDEO RECORDER**

- A. The network video recorder (NVR) shall be a high-quality recorder capable of recording as many as 4 IP cameras at no less than 4CIF. The maximum recording resolution shall be up to 6MP.

- B. The NVR shall offer 4 built-in PoE interfaces to plug and play the IP cameras, and the PoE interface shall comply with 802.3at standard.
- C. The NVR shall offer integrated Alarm I/O (4x In/ 1x Out)
- D. The NVR shall be capable of simultaneous HDMI and VGA output, and support output up to 1920 x 1080P resolution for HDMI and VGA.
- E. The NVR shall offer 4-ch 1080P synchronous playback.
- F. The NVR shall tag video clip, and offer search and playback by tag, as well as digital zoom on live view and playback.
- G. The NVR shall operate with third-party network cameras.
- H. The NVR shall support DDNS and 3rd-party network cameras.
- I. The NVR shall support NTP (Network Time Protocol) and SADP (Search Activated Device Protocol).
- J. The NVR shall have advanced motion detection and analytics, including privacy mask, tampering and video loss alerts.
- K. The NVR shall support multi-user level management with password protection.
- L. The NVR shall be capable of full system logging including operation, alarm and defined events.
- M. The NVR shall support up to 1 SATA HDD up to 6TB.
- N. The NVR shall support Channel-zero encoding, which enables you to get a view from remote client or web browser of up to 4 channels in one screen
- O. The NVR shall be able to select either IP Video Source main stream or sub stream as the recording stream.
- P. The NVR shall be able to support up to 4 split-screen live view on connected monitor, and support click and drag the live view window to automatically adjust displayed camera order.
- Q. The NVR shall be able to playback the video footage with event info at normal speed and video footage without event info at 16x speed, to increase the playback efficiency.
- R. The NVR shall be able to export and import the connected IPC list as excel for easy IPC deployment and management.
- S. The NVR shall adopt pioneering dual-OS design to ensure high stability and

security of system running.

## **2.2 NETWORK Video RECORDER SPECIFICATIONS**

- A. Power Supply 48V, DC
- B. Consumption  $\leq 10$  W (without HDD and PoE)
- C. Operating System Linux
- D. Recoding Resolution 6MP / 5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
- E. Video Outputs HDMI, VGA
- F. Storage 1 SATA HDD up to 4TB

## **2.3 VIDEO/AUDIO Input**

- A. Video Input Up to 4-ch IP video input, and 40Mbps incoming bandwidth
- B. Audio input 1-ch, RCA (2.0 Vp-p, 1k $\Omega$ )

## **2.4 VIDEO/AUDIO OUTPUT**

- A. Recording resolution 6MP / 5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
- B. HDMI output1 HDMI, resolution: 1920×1080P@60 Hz, 1920×1080P @ 50 Hz, 1600×1200@60 Hz, 1280×1024@60 Hz, 1280×720@60 Hz, 1024×768@60 Hz
- C. VGA output 1 VGA, resolution: 1920×1080P@60 Hz, 1600×1200@60 Hz, 1280×1024@60 Hz; 1024×768@60 Hz
- D. Playback Resolution 6MP / 5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
- E. Audio output 1-ch, RCA(Linear, 1k $\Omega$ )
- F. Dual stream Support
- G. Synchronous playback 4-ch 1080P

## **2.5 STORAGE**

- A. SATA 1 SATA interface
- B. Capacity Up to 6TB capacity for each HDD

## **2.6 EXTERNAL INTERFACE**

- A. Network Interface 1x 10M, 100M self-adaptive Ethernet interface, and 4 independent 100 Mbps PoE network interfaces, comply with 802.3af/at
- B. Network bandwidth Up to 40Mbps input, 80Mbps output, up to 32 output network streams for remote connection
- C. USB interface 1 x USB 2.0 and 1 x USB3.0

## **2.7 PHYSICAL SPECIFICATIONS**

- |                          |                                     |
|--------------------------|-------------------------------------|
| A. Dimension (W x H x D) | 315 × 230 × 45 mm (12.4"x9.1"x1.8") |
| B. Weight (without HDD)  | ≤ 1 kg (2.2 lb) (without hard disk) |
| C. Chassis               | 1U chassis                          |

## **2.8 Environmental**

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|------------------------|----------------------------------|
| A. Working Temperature | -10 °C ~ +55 °C (14 °F ~ 131 °F) |
| B. Working Humidity    | 10% ~ 90%                        |

## **2.9 LICENSING AND SUPPORT AGREEMENTS**

- A. Recorder shall require no licensing fees per channel or device, for basic software.
- B. Recorder shall require no Software Support Agreements with the Manufacturer.

## **2.10 MODELS**

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|----------------|--|
| A. CRDN0410-PA | 4 IP CHANNEL, NETWORK VIDEO RECORDER<br>integrated 4xPoE-Switch and 4 Alarm inputs |
|----------------|--|

## **2.11 WARRANTY**

- A. 3 years

## **2.03 REGULATORY COMPLIANCE**

- A. CE Product EMC:
  - a. EN 61000-3-2: 2014
  - b. EN 61000-3-3: 2013
  - c. EN 61000-6-3: 2007 + A1:2011
  - d. EN 50130-4: 2011 Immunity
- B. CE Product Safety:
  - EN 60950-1: 2006+A11:2009+A1:2010+A12:2011+A2:2013

## **Part 3 – EXECUTION**

### **2.04 Installation**

- A. The Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

**The Recorder shall be Network Video Recorder manufactured / delivered by**

**Vanderbilt International (IRE) Ltd. or equivalent.**