

Exacq Technologies, headquartered in Indianapolis, Indiana, is a leading developer of open architecture, Video Management System (VMS) solutions for security and surveillance applications. Our exacqVision VMS client-server solutions are scalable from a small single camera solution to large scale corporate or campus systems with thousands of cameras. Real-time and recorded video can be viewed, managed and configured from any location on the network.

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## STORAGE SEVER SYSTEM MANAGER

### DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

**28 00 00 Electronic Safety and Security**

**28 20 00 Electronic Surveillance**

**28 23 00 Video Surveillance**

**28 23 13 Video Surveillance Remote Devices and Sensors**

#### Notes to Specifier:

1. Where several alternative parameters or specifications exist, or where, the specifier has the option of inserting text, such choices are presented in **<bold text>**.
2. Explanatory notes and comments are presented in **colored** text.

**Important Note to Security Systems Specifiers**

CSI MasterFormat 2016 incorporates numerous significant changes affecting electronic safety and security. This document is written to provide flexibility in using either format, although adoption of MasterFormat 2016 is encouraged. The following is a guide to the MasterFormat numbers relevant and related to the product referenced in this specification.

**MasterFormat 2014:**

27 20 00	Data Communications
28 05 00	Common Work Results for Electronic Safety and Security
28 13 00	Access Control
28 13 16	Access Control Systems and Database Management
28 16 00	Intrusion Detection
28 16 33	Intrusion Detection Control, GUI, and Logic Systems
28 23 00	Video Surveillance
28 23 13	Video Surveillance Control and Management Systems
28 23 16	Video Surveillance Monitoring and Supervisory Interfaces
28 23 19	Digital Video Recorders and Analog Recording Devices
28 23 23	Video Surveillance Systems Infrastructure
28 23 29	Video Surveillance Remote Devices and Sensors

**MasterFormat 2016:**

27 15 01.xx	Video Surveillance Communications Conductors and Cables
27 20 00	Data Communications
28 05 00	Common Work Results for Electronic Safety and Security
28 05 xx	Power Sources for Electronic Safety and Security
28 05 xx	Servers, Workstations and Storage for Electronic Safety and Security
28 05 xx	Storage Appliances for Electronic Safety and Security
28 05 xx.xx	Network Video Recorders
28 05 xx	Cyber Requirements for Electronic Safety and Security
28 05 xx	Communications Equipment for Electronic Safety and Security
28 05 xx	Systems Integration and Interconnection Requirements
28 05 xx.xx	Electrical
28 05 xx.xx	Information
28 10 00	Access Control
28 10 xx	Access Control Software
28 20 00	Video Surveillance
28 2x 00	Video Management System
28 30 00	Security Detection, Alarm, and Monitoring
28 3x 00	Intrusion Detection
28 3x xx.xx	Intrusion Detection Interfaces to Security Monitoring and Control

## **HYBRID NETWORK VIDEO RECORDER**

### **1. GENERAL**

#### **1.1. SUMMARY**

1.1.1. Section includes a device to control a pan-tilt zoom (PTZ) camera remotely via a USB interface.

1.1.2. Related Requirements

1.1.2.1 28 23 13 – Video Surveillance Remote Devices and Sensors

#### **1.2. REFERENCES**

1.2.1. Abbreviations

1.2.1.1. PTZ – Pan-Tilt Zoom

1.2.1.2. VMS – Video Management System

1.2.2. Reference Standards

1.2.2.1. CE

1.2.2.2. FC

1.2.2.3. RoHS

#### **1.3. SUBMITTALS**

1.3.1. Product Data

1.3.1.1. Manufacturer's printed or electronic data sheets

1.3.1.2. Manufacturer's installation and operation manuals

#### **1.4. WARRANTY AND SUPPORT**

1.4.1. Manufacturer shall provide a limited one-year warranty and updates for parts and labor

**END OF SECTION**

## 2. PRODUCTS

### 2.1. EQUIPMENT

- 2.1.1. Manufacturer: Exacq Technologies, Inc.  
 11955 Exit Five Parkway  
 Fishers, IN 46037 USA  
 Phone: +1 317 845-5710  
 Web: <https://www.exacq.com>  
 E-mail: [exacqinfo@tycoint.com](mailto:exacqinfo@tycoint.com)
- 2.1.2. Model: USB Surveillance Keyboard
- 2.1.3. Alternates: None

### 2.2. DESCRIPTION

- 2.2.1. The surveillance keyboard shall be an add-on to a video management system (VMS) with the following characteristics:
- 2.2.1.1. The surveillance keyboard shall use USB to connect.
- 2.2.1.2. The surveillance keyboard shall operate on the following operating system:
- 2.2.1.2.1. Windows: Windows 10, Windows Server 2016
- 2.2.1.2.2. Linux: Ubuntu Linux 18.04
- 2.2.1.2.3. Apple: Mac OSX 10.15
- 2.2.1.3. The surveillance keyboard shall be part of an integrated system that includes custom firmware to integrate with VMS software.
- 2.2.1.4. The surveillance keyboard shall have the following components:
- 2.2.1.4.1. Three-axis hall-effect joystick.
- 2.2.1.4.2. 10-button numeric keypad.
- 2.2.1.4.3. 16 user-defined buttons.
- 2.2.1.4.4. Jog/shuttle dial.
- 2.2.1.4.4.1. The jog/shuttle dial shall be able to travel 360 degrees.
- 2.2.1.4.5. USB 1.1 interface.
- 2.2.1.4.6. LED-illuminated buttons.

### 2.3. SPECIFICATIONS AND MODEL NUMBER

- 2.3.1. The surveillance keyboard shall have the following specifications:
- 2.3.1.1. Dimensions: 9 x 11 x 4.36 in (228.35 x 279.40 x 110.74 mm)
- 2.3.1.2. Weight: 3 lb. (1.36 kg)
- 2.3.1.3. Operating Temperature: -13° F to 185° F (-35° C to 85° C)
- 2.3.1.4. Power Consumption: Via USB interface – 5V D, 1A max
- 2.3.1.5. Interface: USB, 5-meter cable length maximum
- 2.3.1.6. Keyboard Housing: High-impact ABS
- 2.3.1.7. Joystick Performance: Hall-effect three-axes joystick

- X/Y/Z for positioning control
- 2.3.1.7.1. Travel: X/Y axis +/- 18°  
Z axis +/- 40°
  - 2.3.1.7.2. Centering: Single sprint, omni-directional
  - 2.3.1.7.3. Shaft: Stainless steel
  - 2.3.1.7.4. Boot: Neoprene
  - 2.3.1.7.5. Handle: Glass-filled nylon
  - 2.3.1.8. Jog/Shuttle Performance: Spring-loaded shuttle ruing travel +/- 40°  
Smooth-action knob rotates 360°
  - 2.3.1.9. Pushbutton Performance: 27 pushbuttons – 11 fixed and 16 user-programmable
    - 2.3.1.9.1. Lighting: High-efficiency LED
    - 2.3.1.9.2. Material: Silicon
  - 2.3.2. Model Number:
    - 2.3.2.1. 5000-50100
  - 2.3.3. Warranty:
    - 2.3.3.1. One year on parts and labor.

**END OF SECTION**

**3. EXECUTION**

**3.1. INSTALLATION**

3.1.1. Contractor shall comply with all Manufacturer installation guidelines.

3.1.2. Contractor personnel shall comply with all applicable state and local licensing requirements.

**3.2. STORAGE**

3.2.1. Hardware shall be stored in an environment where temperature and humidity are in the range specified by the hardware manufacturer.

**END OF SECTION**