TECHNICAL SPECIFICATIONS   **SECURITY SYSTEM**
DIVISION – 28 ELECTRONIC SAFETY AND SECURITY
LEVEL 1_28 20 00 ELECTRONIC SURVEILLANCE
LEVEL 2_28 23 00 VIDEO SURVEILLANCE
LEVEL 3_28 23 13 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

1   GENERAL

    A.   Equipment and materials used shall be standard components that are manufactured and available for purchase as standard replacement parts as long as the product is commercially available from the manufacturer.

    B.   All manufactured products shall be thoroughly tested and proven in actual use.

    C.   All manufactured products shall include, at no additional cost, online support services and availability of a toll-free (U.S. and Canada), 24-hour technical assistance program (TAP) for emergencies.

    D.   The manufacturer shall repair or replace without charge, manufactured products proven defective in material or workmanship for the stated warranty period from the date of shipment.

2   PRODUCTS

2.1   JOYSTICK CONTROLLER / KEYBOARD

    A.   The keyboard shall be compatible with all Endura® Series distributed, network video management components as well as DX® and DS® series DVRs and HVRs. One keyboard can control all system cameras through a video console display or DVR display.

    B.   The keyboard controls are located on three modules in the keyboard. Modules shall be capable of rotating to suit user preferences. The keyboard modules shall include a variable speed, vector-solving joystick for precise PTZ control, jog/shuttle for playback control and pattern control, a keypad for camera and monitor control, and a built-in speaker. The keyboard shall have LED buttons that work in conjunction with the feature being used.

    C.   The keyboard shall be part of an integrated system and shall be configured so any number of keyboards can be added to the system. When combined with user interfaces (UIs), network storage managers (NSM's), encoders, IP camera, and video consoles, the keyboard forms an integral part of a complete network-based video control system.

    D.   The keyboard shall meet or exceed the following design and performance specifications.

        1.   Power Supply Specifications
            a.   Input Voltage   100-240 VAC, 50/60 Hz
            b.   Output Voltage   12 VDC
            c.   Power Output   20 W
            d.   Input Connector Type   Universal, interchangeable
            e.   Output Connector Type   2.5 mm screw-on barrel

        2.   Keyboard Base Specifications
            a.   Keyboard Interface   USB 2.0
            b.   Cable   USB, captive, 16.4 ft (5.0 m)
            c.   Input Voltage   12 VDC
            d.   Input Current   1.3 A (maximum)
            e.   Upstream Port   USB 2.0 (USB type B connector)

	f.	Downstream Port	2x USB 2.0 hi/full/low speed (USB type A connector)
	g.	Audio Output	Embedded speaker or plug-in headset, 0.5 W into 8-ohm load per channel
	h.	Audio Input	Plug-in microphone, mono (30 to 350mVp-p); or line input, stereo (0.35 to 2.0 Vp-p)

3. Keyboard Module Specifications

		a.	Keyboard Keypad	0-9, camera, monitor, and multiple view keys
		b.	Joystick	Fully proportional PTZ, variable speed; with zoom, iris, and focus controls
		c.	Jog/Shuttle	Proportional, fast forward, reverse, and video transport; menu navigation on VCD5000 video console display
		d.	Module Connectors	Three (one for each module), USB 1.1 mini-USB

4. Physical Specifications

		a.	Dimensions	7.86" D x 14.76" W x 4.6" H
		b.	Unit Weight	2.68 lb (1.22 kg)

5. Environmental Specifications

		a.	Ambient Temperature	70° to 74°F (21° to 23°C)
		b.	Operating Temperature	32° to 104°F (0° to 40°C) at air intake of unit
		c.	Storage Temperature	–40° to 149°F (–40° to 65°C)
		d.	Operating Humidity	Up to 96%

6. Certifications
    a. CE, Class B
    b. UL/cUL Listed
    c. FCC, Class B
    d. C-Tick
    e. GOST

E. Warranty
    1. 36 months, parts and labor

F. Pelco Model Number
    1. KBD5000-Series, Joystick/Keyboard