



## 2.8 VIDEO WORKSTATION

- .1 SSC workstation is shared with SCA therefore an independent unit is not required (see section PTAV (Workstation (Access/Video)) in 28 13 00).
-  ~~.2 In the case of security workstation, provide three (3) additional flat panel monitors (609 mm diagonal) with display port or with DVI ports, 5ms response time or less, 1920x1080 resolution, dynamic contrast ratio of 20,000,000: 1, viewing angle of 170° horizontal, 160° vertical, anti-glare, integrated power supply, built-in speakers, life cycle 30,000 hrs. (minimum), compatible with VESA support.~~
- .3 Video workstation and combined access (PTV-PTA) must meet the following specifications (if the manufacturer's requirements of SSC and / or specifications of video surveillance software in relation to the parameters of the project are higher than the requirements described, Contractor shall enhance the following requirements):
- .1 Tower Enclosure
  - .2 Processor: Intel i7 3.7 GHz with 16 MB Cache
  - .3 Memory 16GB 1600MHZ DDR3 @
  - .4 Main hard drive (s) for the operating system. Two (2) 500GB 7.2K RPM SATA 3Gbps 3.5in Hot-plug installed in RAID 0.
  - .5 Secondary hard drive (s) for SSC archiving software. Two (2) 500GB 7.2K RPM SATA 3Gbps 3.5in Hot-plug installed in RAID 0.
  - .6 DVD-RW drive.
  - .7 Network card: 2 x 1000 Base-T.
  - .8 64-bit operating system, Windows 7 (French) or newer.

 ~~.9 Flat Panel Monitor with diagonal of 609 mm; DVI ports or display port, 5ms response time or less, 1920x1080 resolution, dynamic contrast ratio of 20,000,000: 1, viewing angle of 170° horizontal, 160° vertical, anti-glare, integrated power supply, integrated speakers, life cycle 30,000 hrs. (minimum), compatible with VESA support. Power cables, video, USB and audio required.~~

  - .10 USB 3.0.
  - .11 Video Card 1GB DDR5 multiple-output (2) can be displayed on two monitors simultaneously with a resolution of 2x 1080P.
  - .12 Optical mouse and French keyboard (with cord).
  - .13 Vertical computer protection case manufactured by Batko, model FR-CPU01 or accepted equivalent. This box must be equipped with monitoring contact for 2 doors.
- .4 Accessories for security office workstation:
- .1 Provide three (3) additional flat panel monitors (609 mm diagonal) display with DVI ports or port, 5ms response time or less, 1920x1080 resolution, dynamic contrast ratio of 20,000,000: 1, viewing angle 170° horizontal, vertical 160°, anti-glare, integrated power supply, integrated speakers, the life cycle of 30,000 hrs. (Min), compatible with VESA support. Power cables, video, USB and audio required.
  - .2 Dual monitor support manufactured by Ergotron, LX Dual Stacking Arm or acceptable equivalent.



- .3 PTZ keyboard for the selection and control of PTZ cameras.
- .4 ***UPS unit able to sustain power demands of workstation for a minimum of 30 minutes. Installed within a vertical computer protection case manufactured by Batko, model FR-CPU01 or accepted equivalent. This box must be equipped with monitoring contact for 2 doors.***

## **2.9 ETHERNET SWITCH AND EQUIPMENT HOUSING**

- .1 All indoor cameras (all categories) and all cameras installed outside the buildings, the Contractor shall be connected to the Ethernet network dedicated to security. This network is to be provided and installed by the safety systems contractor meeting the requirements of Section 27 10 05 for the IP network infrastructure dedicated to the security system.

## **2.10 WIRING AND CONDUITS**

- .1 Conduits are provided in Division 26 - Electrical.
- .2 Camera network cables should be CAT-6 type and have MDVO plugs at both ends. Terminating a network cable by manually installing a compression connector is not allowed.
- .3 Provide and install network cables in compliance with the requirements of Section 27 10 05 for the IP network infrastructure dedicated to the security system.
- .4 The Contractor shall provide and install all patch cords required for the SSC.
- .5 The Contractor shall provide and install any other cables required to connect all components of the SSC as well as connectors and Velcro fasteners.
- .6 Cable specifications are defined in Section 28 05 01 Common Work Results – Electronic Safety and Security.

## **Part 3 Execution**

### **3.1 MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with the requirements listed in manufacturer's written data, including product technical bulletins, instructions appearing in the product catalog, instructions appearing on the product packaging and on data sheets.

### **3.2 CAMERA INSTALLATION**

- .1 Install components in accordance with the manufacturer's written installation instructions, according to location, mounting heights and surveillance zones appearing on the revised plans and shop drawings.
- .2 Secure the components to walls, ceilings and other supports as specified.
- .3 Camera anchors shall be stainless steel. The anchoring tensile force must be greater than 1 kN tensile and shear force when installed at a 40 mm depth in a concrete of 13.8 MPa. Each camera must have a minimum of three (3) anchors.
- .4 Any exposed heads for anchors, screws or bolts must be anti-vandal.
- .5 Install all required boxes in accessible, concealed locations.