

1.0 **GENERAL**

1.1 **Related UBC Guidelines**

- .1 Section 28 05 00 Access Services: General Standards

1.2 **Related UBC Policy**

- .1 Policy No.: SC16 - Safety and Security Cameras

1.3 **Coordination Requirements**

- .1 UBC Electronic Systems and Campus Security and *UBCO Information Technology*.

1.4 **Description**

- .1 All Safety and Security Camera installations shall comply with UBC Policy No. SC16: https://universitycounsel-2015.sites.olt.ubc.ca/files/2019/08/Video-Cameras-Policy_SC16.pdf
- .2 This section covers requirements for Safety and Security Cameras. Cameras are installed by Campus Security and *UBCO Information Technology* General Requirements for this system for Consultants and Contractors are provided in Section 28 05 00 Electronic Security Systems: General Standards.
- .3 These guidelines provide reference to particular types, grades and models of products. In general, the references include both generic descriptions and specific product details. These references shall not be construed as a directive to sole-source products from any particular vendor except where this is specifically stated.
- .4 Safety and Security Camera system that monitors both live and recorded events may include the following:
 - .1 IP camera.
 - .2 Video Encoder
 - .3 *At UBCO, Genetec systems software is supplied and managed by UBCO IT*
 - .4 VMS server and storage.
 - .5 Desk top computer.

2.0 **MATERIALS**

2.1 **IP Camera**

- .1 Device Location
 - .1 Wall or ceiling mountable. Whenever possible, camera should be faced away from available light source. Exact location and viewing angle shall be confirmed by *UBCO Campus Security*.
- .2 Wiring
 - .1 Demark for IP Cameras. Reference to Communications Standard Drawings ITSTD-23, ITSTD-24, and ITSTD-25
- .3 Device Feature
 - .1 PoE Class 3 or better.
 - .2 Minimum resolution 1920 x 1080 (2MP), capable of 30+ IPS, minimum 2 streams at full resolution.

- .3 Minimum illumination 0.16 lux (Colour), 0.08 lux (Black & White).
- .4 RJ45 connector.
- .5 Video Compression supported includes H.264, H.265, MJPG.
- .6 Support for optional onboard memory card (microSD) for backup storage, minimum Class 10, sized for minimum 72 hours video retention at full stream quality (i.e. 2MP, 30+ FPS).
- .7 *Where directed, IK10 vandal resistant rating.*
- .8 *Unless otherwise directed for a specific application, all cameras shall be indoor/outdoor rated, IP66/67 rated for outdoor applications, complete with IP66/67 connectors in all outdoor applications.*
- .9 *New cameras shall support minimum 120dB Wide Dynamic Range, unless directed or approved otherwise.*
- .10 *All supplied devices shall be CSA/ULC listed, unless approved otherwise.*

*****END OF SECTION*****