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## VITEK SHORT FORM STANDARD CAMERA

### DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

#### 28 20 00 ELECTRONIC SURVEILLANCE

#### 28 23 00 VIDEO SURVEILLANCE

#### 28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

*This specification is intended for use by the design/constructing professional and any user of Vitek security products to assist in developing project specifications for security and video surveillance systems.*

*This specification can and should be modified as necessary to accommodate individual project conditions.*

#### Part 1 GENERAL

##### 1.01 SUMMARY 1.02 WARRANTY

- A. Provide manufacturer's standard warranty

#### PART 2 PRODUCTS

##### 2.01 MANUFACTURERS

- A. Vitek Industrial Video Products, Inc.
- B. Provide Video Surveillance Recorder from single source manufacturer.

##### 2.02 HIGH DEFINITION SERIAL DIGITAL INTERFACE DOME CAMERA

###### A. General

- (1) Product specifically designed for closed circuit television viewing.
- (2) The unitized camera assembly shall be a self-contained unit that incorporates a CS lens mount and an on-screen display controller.
- (3) The unitized camera shall consist of cast aluminum.
- (4) The unitized camera shall include a true wide dynamic range function.

###### B. Camera Module

- (1) The image sensor shall be a third inch (1/3") Pixim D8800C Seawolf Digital Imaging System CMOS.
- (2) The resolution shall be seven hundred fifty-eight (758) by five hundred forty (540) pixels.
- (3) The video standard shall be selectable NTSC or PAL.
- (4) The horizontal resolution shall be seven hundred (700) TV lines.
- (5) The minimum illumination shall be zero-point-zero-zero-zero-eight (0.0008) lux in black and



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white.

- (6) The synchronization system shall be selectable internal one (1) or internal two (2).
- (7) The scanning system shall be two-to-one ratio (2:1) interlaced.
- (8) The scanning frequency shall be fifty-nine-point-nine-four (59.94) vertical hertz and fifteen-point-seven-three-four (15.734) kilohertz horizontal.
- (9) The signal-to-noise ratio shall be more than fifty-two (52) decibels (dB) with automatic gain control turned off at fifty (50) percent on the Institute of Radio Engineers (IRE) scale.
- (10) The video output shall consist of one (1) volt peak-to-peak composite signal at seventy-five (75) Ohms.

#### C. Day and Night

- (1) The unitized camera shall include night mode.
- (2) The unitized camera shall function with an infrared cut filter removable (ICR) lenses.
- (3) The day & night mode shall consist of automatic mode, forced day mode and forced night mode.
- (4) The day & night mode shall provide a selectable burst on or off mode.
- (5) Day to night vision mode switch sensitivity shall range from one (1) to twenty (20).
- (6) Night to day vision mode switch sensitivity shall range from one (1) to ten (10).

#### D. Exposure Adjustment

- (1) The exposure setting shall include adjustable color roll compensation, lens select, automatic exposure preference, sense-up, shutter speed, wide dynamic range control, digital noise reduction and white balance.
- (2) Color roll compensation shall include selectable highlights priority or shadows priority.
- (3) Automatic exposure preference shall include selectable highlights priority or shadows priority.
- (4) Wide dynamic range control shall include selectable low, normal, medium and high presets and custom mode.
- (5) Wide dynamic range custom mode shall include safe area, center one-third (1/3), lower two-thirds (2/3), and manual mode.
- (6) Wide dynamic range custom mode range shall be from zero (0) to thirty-six.
- (7) Wide dynamic range custom mode bias shall be from negative thirty (-30) to thirty (30).
- (8) Sense-up shall include selectable automatic mode or off.
- (9) Sense-up automatic mode shall include selectable limit of two (2) times a thirty (30) frames per second, four (4) times at fifteen (15) frames per second, eight (8) times at eight (8) frames per second, sixteen (16) times at four (4) frames per second, thirty-two (32) times at two (2) frames per second and sixty-four (64) times at two (2) frame per second in NTSC mode, and two (2) times at twenty-five (25) frames per second, four (4) times at twelve (12) frames per second, eight (8) times at six (6) frames per second, sixteen (16) times at three (3) frames per second, thirty-two (32) times at one (1) frame per second and sixty-four (64) times at (1) frame per second PAL mode.
- (10) Lens select shall include selectable direct control lens or manual lens modes.
- (11) The automatic iris threshold shall range from negative forty-eight (48) to sixty (60).
- (12) The white balance shall include selectable and adjustable automatic tracking white normal, automatic tracking white desaturated, automatic tracking white extended and manual modes.
- (13) The automatic tracking white shall include adjustable speed and delay count ranging from zero (0) to two hundred fifty-five (255).
- (14) The manual white balance control shall include adjustable value in Kelvin ranging from two thousand (2000) degrees to eleven thousand (11,000) degrees in increments of one hundred (100) degrees.



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- (15) The manual white balance control shall include adjustable red and blue color adjustments ranging from negative twenty (-20) to twenty (20).

#### E. Picture Optimization

- (1) Picture Optimization shall include preset colors, sharpness control, saturation and gamma control.
- (2) Preset colors shall include three preset settings.
- (3) Sharpness shall range from negative eight (-8) to eight (8).
- (4) Saturation shall range from negative eight (-8) to eight (8).
- (5) Gamma shall range from twenty-five (25) to one hundred (100) in increments of one (1).

#### F. Lens

- (1) The unitized camera shall be compatible with CS mounted lens.
- (2) The unitized camera shall provide automatic or manual iris modes.
- (3) The lens shall include a focus adjustment function with adjustable switch delay time of one (1) to seven (7) seconds.

#### G. Digital Enhancements

- (1) Digital effects shall include motion detection, privacy zone, freeze, flip, digital pan, tilt and zoom and three dimensional (3D) motion adaptive noise reduction.
- (2) The unitized camera shall include four (4) adjustable motion detection areas.
- (3) The unitized camera shall display motion detection warning where and when motion is detected.
- (4) Motion detection sensitivity shall range from zero (0) to two hundred fifty five (255).
- (5) Each area shall include adjustable motion box position and size.
- (6) The unitized camera shall include six (6) adjustable privacy zones.
- (7) Each privacy zone shall provide adjustable position, size and color.
- (8) Privacy zone masking color shall include black, white and red.
- (9) Three dimensional (3D) motion adaptive noise reduction shall include adjustable depth ranges from zero (0) to one hundred twenty-seven (127).
- (10) The unitized camera shall include freeze.
- (11) The unitized camera shall include horizontal flip, vertical flip and rotate.
- (12) The unitized camera shall include digital pan, tilt and zoom.
- (13) The digital zoom shall range from one (1) to twelve (12).
- (14) The digital pan shall range from negative one hundred (100) to one hundred (100).
- (15) The digital tilt shall range from negative one hundred (-100) to one hundred (100).

#### H. Security

- (1) The unitized camera shall furnish a password protection for its setup menu screen.
- (2) The password shall be a customizable four (4) digit code.

#### I. Environmental

- (1) The operating temperature shall be between fourteen (14) degrees to one hundred twenty-two (122) degrees in Fahrenheit, or negative ten (-10) degrees to fifty (50) degrees in Celsius.
- (2) The storage temperature shall be between negative two (2) degrees to one hundred fifty-eight (158) degrees in Fahrenheit, or negative twenty (-20) to seventy (70) degrees in Celsius.



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- (3) The operating humidity shall be between zero (0) to ninety (90) percent non-condensing.
- (4) The storage humidity shall be between zero (0) to ninety-five (95) percent non-condensing.

J. Electrical

- (1) The operating voltage shall be twelve (12) volts direct current (DC) or twenty-four (24) volts alternating current (AC).
- (2) The power consumption shall be three (3) watts maximum.

K. Dimensions and weight

- (1) The dimensions shall be one-point-nine (1.9) inches wide, two (2) inches high and two-point-four inches long.
- (2) The weight shall be approximately zero-point-three-five (0.35) pounds.

L. Optional Accessories

- (1) Remote OSD Controller VT-UTCC

**2.03 SUGGESTED PRODUCT**

- A. The camera shall be a Vitek ultra dynamic range short form standard day & night camera model VTC-C770WS.

**PART 3 EXECUTION**

**3.01 ACCEPTABLE INTEGRATORS**

**3.02 INSTALLATION**