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VITEK 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 Camera from single source manufacturer.

2.02 STANDARD DAY AND NIGHT 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 C/CS lens mount and an on-screen display controller.
- (3) The unitized camera shall consist of cast aluminum.
- (4) The unitized camera shall include Adaptive Tone Reproduction.



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B. Camera Module

- (1) The Image Sensor shall be a third inch (1/3") Sony High Density EX-View CCD.
- (2) The Image Processor shall be a Sony Effio Digital Signal Processor.
- (3) The resolution shall be nine hundred seventy-six (976) by four hundred ninety-four (494) pixels.
- (4) The horizontal resolution shall be seven hundred (700) TV lines.
- (5) The Minimum Illumination shall be zero-point-zero-five (0.05) lux in color, zero-point-zero-zero-three (0.0003) lux in black and white.
- (6) The Synchronization system shall be internal.
- (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 (50) 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 Infrared Cut-Filter Removable based day & night (true day & night).
- (2) The Day & Night mode shall consist of Automatic mode, forced day mode and forced night mode
- (3) The Day & Night mode shall provide a selectable burst on or off mode.
- (4) Day to night vision mode switch sensitivity shall range from zero (0) to two hundred fifty-five (255).
- (5) Night to day vision mode switch sensitivity shall range from zero (0) to two hundred thirteen (255).
- (6) The time delay of vision mode switch shall range from one (1) to two hundred fifty-five (255) seconds.

D. Exposure Adjustment

- (1) The Exposure setting shall include adjustable Lens modes, Shutter Speed, Backlight Compensation, Adaptive Tone Reproduction Control, Digital Noise Reduction and White Balance.
- (2) Automatic Shutter mode shall include adjustable High and Low Luminance.
- (3) High Luminance Shutter modes shall include selectable and adjustable Automatic Iris and Shutter plus Automatic Iris Modes ranging from zero (0) to two hundred fifty-five (255).
- (4) Low Luminance mode shall include selectable Automatic Gain Control On or Off.
- (5) Low Luminance mode shall include adjustable brightness value of zero-point-two-five (0.25), zero-point-five-zero (0.50), zero-point-seven-five (0.75) and one-point-zero-zero (1.00) times amplification.
- (6) The Manual Shutter Speed shall range from one-sixtieth (1/60)0, one-one-hundredth (1/100), one-two-hundred-fiftieth (1/250), one-five-hundredth (1/500), one-one-thousandth (1/1000), one-two-thousandth (1/2000), one-four-thousandth (1/4000) and one-ten-thousandth (1/10,000).
- (7) The Manual Shutter mode shall include adjustable Automatic Gain Control value of six-point-zero-zero (6.00), twelve-point-zero-zero (12.00), eighteen-point-zero-zero (18.00), twenty-four-point-zero-zero (24.00), thirty-point-zero-zero (30.00), thirty-six-point-zero-zero (36.00), forty-two-point-zero-zero (42.00), forty-four-point-eight-zero (48.80) gain.
- (8) The Backlight Compensation shall include selectable Back Light Compensation or Highlight Control.



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- (9) The Adaptive Tone Reproduction shall include selectable On or Off modes.
- (10) The Adaptive Tone Reproduction shall include Luminance and Contrast control.
- (11) The Luminance shall include selectable Low, Middle or High setting.
- (12) The Contrast shall include selectable Low, Midlow, Middle, Midhigh or High setting.
- (13) The White Balance shall include selectable and adjustable Automatic Tracking White, Push, Push Lock, Manual and Anti-Color Rolling and two custom user modes.
- (14) The Automatic Tracking White shall include adjustable speed and delay count ranging from zero (0) to two hundred fifty-five (255).
- (15) The Automatic Tracking White shall include adjustable Frame speed acceleration value of zero-point-five (0.5) to two-point-zero (2.0) in increments of zero-point-five (0.5).
- (16) The Automatic Tracking White shall include selectable Indoor or Outdoor Preset modes.
- (17) The Manual White Balance Control shall include adjustable value of twenty-nine (29) to seventy-nine (79).
- (18) The two user modes shall include adjustable Blue and Red gain adjustments ranging from zero (0) to two hundred fifty-five (255).
- (19) The Digital Noise Reduction shall include selectable and adjustable Luminance (Y) and Chrominance (C) values.
- (20) The Digital Noise Reduction shall include Luminance and Chrominance adjustment, Luminance only adjustment, Chrominance only adjustment, or Off.
- (21) The Luminance and/or Chrominance adjustment shall range from zero (0) to fifteen (15).

E. Picture Optimization

- (1) The Picture Optimization shall include adjustable Picture Orientation, Brightness Control, Contrast Control, Sharpness Control, Hue Control and Gain Control.
- (2) The Picture Orientation shall include mirror mode On or Off.
- (3) All picture adjustments shall range from (0) to two hundred fifty-five (255).

F. Lens

- (1) The unitized camera shall be compatible with C or CS mounted Lens.
- (2) The unitized camera shall provide a C mount lens adapter ring.
- (3) The unitized camera shall provide automatic or manual Iris modes.
- (4) Automatic mode shall include selectable Direct Control or Video modes.
- (5) DC or Video modes shall include selectable Automatic, Open, or Closed Iris modes.
- (6) The speed of the Iris shall range from zero (0) to two hundred fifty-five (255).

G. Digital Enhancements

- (1) The camera shall include a customizable fifty-two (52) alpha numeric title.
- (2) The title position shall be adjustable without restriction.
- (3) Digital Effect shall include Motion Detection and Privacy Zones.
- (4) The camera shall include four adjustable motion detection areas
- (5) Motion Detection area shall include selectable twenty-four (24) by sixteen (16) grids.
- (6) The unitized camera shall display motion detection blocks where and when motion is detected.
- (7) Motion Detection Sensitivity shall range from zero (0) to one hundred twenty-seven (127).
- (8) Motion Detection area shall include adjustable top and bottom positions and sizes ranging from zero (0) to two hundred forty-four (244).
- (9) Motion Detection area shall include adjustable left and right positions and sizes ranging from zero (0) to four hundred seventy-four (474).
- (10) The camera shall include eight (8) adjustable privacy zones.
- (11) Each Privacy Zone shall provide adjustable position, size, and color.
- (12) Privacy Zone Masking Color shall include black, white, yellow, pink, red, indigo (teal), green and blue.



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H. Environmental

- (1) The operating temperature shall be between negative four (-4) degrees to one hundred twenty-two (122) degrees in Fahrenheit.
- (2) The operating humidity shall be between zero (0) to eighty-five percent non-condensing humidity.

I. Electrical

- (1) The operating voltage shall be twelve (12) volts Direct Current or twenty-four (24) volts alternating current.
- (2) The power consumption shall be one hundred (100) milliamperes at twelve (12) volts direct current, or eighty (80) milliamperes at twenty-four (24) volts alternating current.

J. Dimensions and weight

- (1) The dimensions shall be two-point-five-six (2.56) inches wide, two-point-one-six (2.16) inches high and four-point-nine-six (4.96) in length.
- (2) The weight shall be approximately fourteen-point-one-one (14.11) ounces (oz).

K. Convenience

- (1) The On Screen Display Language shall be English Spanish, Portuguese, Russian, French, German and Japanese.

2.03 SUGGESTED PRODUCT

- A. The camera shall be a Vitek Standard Day & Night Camera model VTC-C770DN.

PART 3 EXECUTION

3.01 ACCEPTABLE INTEGRATORS
3.02 INSTALLATION