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VITEK MEG SERIES 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 STANDARD 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 and plastic.
- (4) The unitized camera shall have seven hundred twenty (720) progressive lines of resolution.
- (5) The unitized camera shall use High Definition Serial Digital Interface (HD-SDI) for its main video output.
- (6) The unitized camera shall transmit using VESA standard.

B. Camera Module

- (1) The image sensor shall be a third inch (1/3") Sony Progressive Scan CCD, 1.3 Megapixel.
- (2) The total pixel shall be one thousand three hundred forty eight by nine hundred seventy-six (1348H x 976V).



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- (3) The effective pixels shall be one thousand two hundred ninety-six by nine hundred sixty-six (1296H x 966V).
- (4) The horizontal resolution shall be seven hundred twenty (720) progressive TV lines.
- (5) The minimum illumination shall be one (1) lux at F stop one-point-two (F1.2) at thirty (30) percent on the Institute of Radio Engineers scale in color, and zero-point-one (0.1) with Digital Slow Shutter activated.
- (6) The Synchronization shall be internal.
- (7) The Scanning System shall be Progressive Scan.
- (8) The Signal-to-Noise Ratio shall be more than fifty (50) decibels (dB) with Automatic Gain Control turned off at forty (40) percent on the Institute of Radio Engineers (IRE) scale.
- (9) The video output shall consist of one (1) High Definition Serial Digital Interface (HD-SDI) ITU-R BT601, Y/Cb/CR (4:2:2).
- (10) HD-SDI output shall consist of SXGA (1280H x 960V) at twenty-two-point-five frames per second or seven hundred twenty (720) progressive High Definition Television (1280H x 720V) at thirty (30) frames per second.
- (11) HD-SDI shall include SDI test mode.
- (12) Secondary video output shall consist of one (1) volt peak-to-peak composite signal at seventy-five (75) Ohms.
- (13) Composite Signal shall include selectable aspect ratio of sixteen by nine (16:9) or four by three (4:3).
- (14) Composite Signal shall include selectable video standards of NTSC or PAL.

C. Day and Night

- (1) The unitized camera shall include Night Mode.

D. Exposure Adjustment

- (1) The Exposure setting shall include Shutter Speed Modes, Automatic White Balance, Backlight Compensation, Digital Slow Shutter, and Programmable Gain Amplifier.
- (2) Shutter Speed adjustment shall furnish Electronic Shutter Control, Manual Shutter Control, Manual Iris and Flicker Mode.
- (3) Manual Shutter Control speed shall range from zero (0) to seven (7).
- (4) Manual Iris range of exposure shall range from zero (0) to two hundred fifty-five (255).
- (5) Flicker Mode shall include selectable Gain Modulation, Low Speed Shutter and Off.
- (6) Automatic White Balance shall include selectable Automatic Trace White, Push, Manual White Balance and Hold mode.
- (7) Backlight Compensation shall include selectable On or Off.
- (8) Digital Slow Shutter shall furnish adjustable frame rate (shutter speed amplification) of zero (0) to two hundred fifty-five (255).
- (9) Programmable Gain Amplifier shall furnish Automatic or Fixed modes.
- (10) Programmable Gain Amplifier automatic mode shall range from zero (0) to two hundred fifty-five (255).
- (11) Programmable Gain Amplifier fixed mode shall range from one (1) to seven (7).

E. Picture Optimization

- (1) Picture Optimization shall include adjustable Color Gain, Color Phase, Brightness, Sharpness, Y Gamma and picture orientation
- (2) Color Gain shall include adjustable Red and Blue gain ranges of zero (0) to two hundred fifty-five (255).
- (3) Color Phase shall include adjustable Red and Blue hue ranges of zero (0) to two hundred fifty-five (255).



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- (4) Brightness shall include adjustable Y level ranges of zero (0) to two hundred fifty five (255).
- (5) Sharpness shall include adjustable horizontal and vertical sharpness level of zero (0) to fifteen (15).
- (6) Y Gamma shall include selectable Y Gamma value of zero (0), zero-point-eight (0.8), one (1), one-point-two-five (1.25), one-point-five (1.5), one-point-eight (1.8), two-point-two (2.2) and two-point-six (2.6).
- (7) Mirror shall furnish selectable On or Off for Horizontal and Vertical orientation.

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.

G. Digital Enhancements

- (1) The unitized camera shall include a customizable fifty (50) alphanumeric title.
- (2) The unitized camera title shall be selectable On or Off.
- (3) The unitized camera title shall furnish adjustable X coordinate ranges of zero (0) to one thousand two hundred sixty-three (1263).
- (4) The unitized camera title shall furnish adjustable Y coordinate ranges of zero (0) to six hundred ninety-five (695).
- (5) The unitized camera title shall have selectable font, edge and background colors of transparent, white, cyan, magenta, blue, yellow, green, red, dark grey, grey, dark cyan, dark magenta, dark blue, dark yellow, dark green and black.
- (6) The unitized camera shall include adjustable digital pan, tilt and zoom ranging from zero (0) to two hundred fifty-five (255).

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.
- (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 percent non-condensing.

J. Electrical

- (1) The operating voltage shall be twelve (12) volts Direct Current.
- (2) The power consumption shall be three four hundred fifty (450) mill amperes.



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K. Dimensions and weight

- (1) The dimensions shall be two-point-seven-one (2.71) inches wide, two-point-five-six (2.56) inches high and six-point-two-two (6.22) inches in depth, or sixty-nine millimeters wide, sixty-five (65) millimeters high, and one hundred fifty-eight (158) millimeters deep.
- (2) The weight shall be approximately zero-point-six-six (0.66) pounds, or three hundred (300) grams.

L. Optional Accessories

- | | |
|--|---------------|
| (1) Indoor/outdoor enclosure and wall mount | VT-EH10/PK |
| (2) Indoor/outdoor enclosure and wall mount combo w/ heater/blower | VT-EH10/PK-HB |

2.03 SUGGESTED PRODUCT

- A. The camera shall be a Vitek MEG Series standard camera model VTC-HD713A

PART 3 EXECUTION

3.01 ACCEPTABLE INTEGRATORS

3.02 INSTALLATION