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## VITEK XPRESS SERIES MULTIFUNCTION CONTROLLER KEYBOARD

### 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 Controller from single source manufacturer.

##### 2.02 MULTIFUNCTION CONTROLLER KEYBOARD

###### A. General

- (1) Product specifically designed for closed circuit television viewing.
- (2) The unitized controller assembly shall be a self-contained unit that incorporates an integral joystick, buttons, communication interface and alarm interface.
- (3) The unitized controller shall consist of plastic and steel body.
- (4) The unitized controller shall be used for camera and DVR control, setup and video routing.
- (5) The unitized controller shall include numeric keypad, camera, DVR and monitor keys.
- (6) The unitized controller shall provide up to seven (7) additional slave controllers.



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## B. Camera Control

- (1) The controller shall control up to sixty-four (64) Xpress Dome cameras in duplex mode and up to two hundred fifty-five (255) Xpress Dome cameras in simplex control mode.
- (2) The controller shall control Xpress Dome cameras in the increment of zero-point-one (0.1) degrees per second to ninety (90) degrees per second in 64 speed steps.
- (3) The controller shall provide a Turbo mode to pan and tilt an Xpress Dome camera at its maximum control speed of three hundred sixty (360) degrees per second.
- (4) The controller shall simultaneously move all three (3) axis of Xpress Dome.
- (5) The controller shall store and recall up to two hundred forty-eight (248) presets, reflecting individual view settings such as zoom, focus, iris and dwell time.
- (6) The controller shall store and recall up to four (4) patterns which comprise of a sequential series of pan, tilt and zoom and focus movements.
- (7) The controller shall store and recall up to sixteen (16) scans with smooth vector scan.
- (8) The controller shall store and recall up to eight (8) tours, each consisting sixty-four (6) sub-functions including preset, pattern, scan and other tours.
- (9) The controller shall recall global preset which recalls the preset of all Xpress Dome cameras.
- (10) The controller shall feature manual override which can be reverted back to automatic mode with a slight movement of the joystick.
- (11) The controller shall access the menu of Xpress Dome cameras and navigate and configure all settings.
- (12) The controller shall provide a one-touch direct access to key functions such as preset, scan, patten and tour.
- (13) The controller shall provide a one-touch direct programming of a preset.
- (14) The controller shall provide a one-touch automatic focus override.
- (15) The controller shall provide a one-touch automatic iris override.
- (16) The controller shall provide a one-touch digital zoom activation.
- (17) The controller shall provide a one-touch execution of infinite pan where the tilt can be manually controlled.
- (18) The controller shall provide a one-touch backlight compensation override.
- (19) The controller shall provide a one-touch wide dynamic range override.
- (20) The controller shall provide a one-touch day & night override.
- (21) The controller shall provide a one-touch on-screen display override.
- (22) The controller shall provide a one-touch flip of its pan location.
- (23) The controller shall provide a one-touch programming of up to nine hundred ninety-nine alias presets.
- (24) The controller shall provide a one-touch keyboard lock.

## C. Digital Video Recorder Control

- (1) The controller shall control up to two hundred fifty-four (254) SAGA or CHRONO series digital video recorders.
- (2) The controller shall access the menu of SAGA or CHRONO series digital video recorders and navigate and configure all settings.
- (3) The controller shall change different multichannel display modes of SAGA or CHRONO series digital video recorders.
- (4) The controller shall select and display any channel of choice from SAGA or CHRONO series digital video recorders.
- (5) The controller shall control playback, pause, rewind, fast forward and record features of SAGA or CHRONO series digital video recorders.
- (6) The controller shall have a one-touch access to search menu.
- (7) The controller shall have a one-touch access to copy menu.
- (8) The controller shall have a one-touch audio channel selection.



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- (9) The controller shall have a one-touch display of SAGA or CHRONO series digital video recorders' status page.
- (10) The controller shall have a one-touch alarm reset override.
- (11) The controller shall have a one-touch automatic channel sequence activation.
- (12) The controller shall have a one-touch channel video freeze.
- (13) The controller shall have a one-touch picture-in-picture access.
- (14) The controller shall have a one-touch spot monitor control.
- (15) The controller shall have a one-touch digital-zoom activation.

#### D. Security

- (1) The controller shall provide two (2) levels of user access.
- (2) The controller shall prompt for user password after being locked.
- (3) The controller shall prompt for user password when powered on for the first time.
- (4) The controller shall limit access to various functions based on user level.

#### E. Convenience

- (1) The controller shall feature a liquid crystal display screen one and one-half (1 ½) inches by five three sixteenth (5 3/16) inches.
- (2) The controller shall provide a three (3) by six (6) programmable function keys.
- (3) The controller shall automatically scan Xpress Dome cameras and connect them.
- (4) The controller shall provide an option to connect any pan, tilt & zoom cameras manually.
- (5) The controller shall provide an adjustable real-time clock.
- (6) The controller clock shall be customizable to different regions of the world.
- (7) The controller clock shall have option of complying with the daylight saving protocol.
- (8) The controller shall provide an option to activate and deactivate Xpress Dome camera's night shot feature based on the time of the day.
- (9) The controller shall provide an option to download and upload Xpress Dome camera settings.
- (10) The controller shall provide an option to activate and deactivate response beep sound effect when a button is pressed.

#### F. Alarm

- (1) The controller shall receive alarm triggers from a selection of digital video recorder, alarm input from Xpress Dome cameras, auxiliary input or auxiliary input/output.
- (2) The controller shall provide the option to configure the alarm communication baud rate of two thousand four hundred (2400) to fifty-seven thousand six hundred (57,600).
- (3) The controller shall provide an option to activate/deactivate alarm beep.
- (4) The controller shall provide alarm dwell time of three (3) to two hundred (200) seconds, or off.
- (5) The controller shall select an alarm event from eight (8) available alarm inputs on an Xpress Dome camera.
- (6) The controller shall provide up to five hundred (500) alarm actions.
- (7) The controller shall provide nine hundred ninety-nine (999) alias presets actions.
- (8) The controller shall provide up to five thousand (5000) alarm history.

#### G. Communication

- (1) The controller shall provide connections for two (2) Xpress Dome camera ports, one (1) digital video recorder port, one RS-232 port, and one (1) slave in and one (1) slave out port.
- (2) The communication ports shall support two thousand four hundred (2400) baud to fifty-seven thousand six hundred (57,600) baud.
- (3) The controller shall provide up to seven (7) slave controllers.



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- (4) The master controller shall hold primary control over slave controllers from one (1) to two hundred (200) seconds, or infinitely.
- (5) The slave controller shall have the option to access and control digital video recorders or the menu for the Xpress Dome Cameras.

H. Electrical

- (1) The controller shall use twelve (12) volt direct current with minimum three (3) amperes.

**2.03 SUGGESTED PRODUCT**

- A. The camera shall be a Vitek XPRESS Series controller model VT-KBD1.

**PART 3 EXECUTION**

**3.01 ACCEPTABLE INTEGRATORS**  
**3.02 INSTALLATION**

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