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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