

VERINT NEXTIVA S5120FDW-DN 2MP DAY/NIGHT VANDAL OUTDOOR DOME IP CAMERA
TECHNICAL SPECIFICATIONS **SECURITY SYSTEM**

DIVISION – 28 ELECTRONIC SAFETY AND SECURITY

LEVEL 1 __28 20 00 ELECTRONIC SURVEILLANCE

LEVEL 2 __28 23 00 VIDEO SURVEILLANCE

LEVEL 3 __28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

PART 2 – PRODUCTS

2.01 GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and utilized in the manufacturer's system.
- B. All equipment and components shall have been thoroughly tested and proven in actual use.

2.02 GENERAL SPECIFICATIONS

- A. The Vandal Outdoor Dome P Camera shall process and compress video images into digital data files utilizing H.264, MPEG4 and MJPEG compression technologies. The camera shall integrate with Verint's Nextiva VMS and EdgeVR DVR systems, and shall be available in a variety of popularly used form factors:
 - a. Provide H.264 compression
 - b. Provide MPEG4 compression
 - c. Provide MJPEG compression
 - d. Provide up to 4 separate streams of compressed video
 - e. Be capable of accepting power at 24V AC, 12V DC or Power-over-Ethernet (PoE)
 - f. Support bi-directional audio
 - g. Support on-board storage via SD/SDHC card
 - h. Provide resolution options from 640 x 480 pixels at 30 fps to 1920x1080 pixels at 15 fps
 - i. Provide full-time analog video out in either NTSC or PAL formats
 - j. Include a 3 axis gimbal for proper image alignment in multiple applications and environments
 - k. Include a megapixel-rated motorized Varifocal lens with remote zoom and remote focus capabilities
 - l. Removable IR cut filter for low-light performance and IR illumination support
 - m. Vandal resistant with extended temperature range for outdoor conditions

2.03 OPERATING SYSTEM

- A. The IP Camera shall utilize an embedded stable OS that resides on on-board non-volatile flash memory. It shall not reside on internal or external Hard Disk Drives. The camera shall not use a standard PC based OS and should not require constant virus or OS patch management for proper security protection.

2.04 MECHANICAL

- A. The IP camera shall have a 3 axis gimbal to align the image regardless of camera position
- B. The IP camera shall have a megapixel-rated megapixel-rated motorized Varifocal lens with remote zoom and remote focus capabilities

- C. The camera shall be capable of surface mounting to a wall or ceiling
- D. The camera shall have an available mounting kits for recess mounting into a wall or ceiling, pole mounting, outside corner mounting, pendant mounting or parapet mounting
- E. The camera shall have a motorized lens with the capability of remotely controlling zoom and focus
- F. The IP camera shall have a button on the camera body that shall activate the camera's auto-focus feature for setup and installation

2.05 VIDEO PROCESSING AND COMPRESSION

- A. The IP camera shall be able to use H.264 compression for the transmission of video to the camera's storage or to any remote authorized system to which the camera is connected.
- B. The H.264 video compression engine shall use Context Adaptive Variable Length Coding (CAVLC) for all recorded video.
- C. Compression quality shall be selectable with a minimum of five levels that can be programmed to maximize operational storage requirements.
- D. The camera shall be capable of four (4) discrete streams in total, of which a maximum of 2 compression types can be set of H.264, MPEG4 and MJPEG
- E. The camera shall use a 1/2.7" CMOS imager
- F. The camera shall provide a minimum resolution support of 640 x 480 expandable to 1920 x 1080 pixels
- G. The camera shall have configurable Wide-Dynamic Range functionality

2.06 GENERAL RECORDING

- A. The camera shall be able to record on a user-supplied SD/SDHC card properly inserted into the camera's SD/SDHC slot and not exceeding 32 GB in total card capacity
- B. The camera shall be able to record to the card at any one of a number of profiles, including timed recording, record upon event or record upon command from an integrated management and recording system
- C. The camera shall be able to record on the card as a constant overwrite or to stop recording when the card is full and notify the administrator that the card is full

2.07 AUTHENTICATION AND PROTECTION

- A. The camera shall use an Unalterable Image Format to maintain the security and integrity of the digital video files.
- B. The camera shall use Secure Socket Layer (SSL) protocol to communicate configuration information to associated NVRs and DVRs.

- C. The camera shall support the 802.1X network tamper trap standard

2.08 CONTROLS

- A. Camera shall be remotely controllable and configurable.
- B. Camera shall have motorized lens with remotely configurable zoom and focus controls
- C. The analog out function shall be controllable between NTSC and PAL from a DIP switch located on the camera body

2.09 POWER/ACTIVITY INDICATORS

- A. The camera shall include LED or other indication on the body of the camera that indicates the power and network status of the camera, including error modes.

2.10 VIDEO OUTPUTS

- A. The camera shall include an Ethernet port for the purpose of communicating to and from the camera and for the purpose of receiving one or more digital, compressed video streams.
- B. The camera shall include an analog 1 Volt peak-to-peak, 75 ohm coaxial video output that can be converted to a standard BNC connection.

2.11 ALARM SIGNALING

- A. The camera shall include a dry contact alarm in.
- B. The camera shall include a dry contact alarm out (relay out).
- C. The alarm input(s) and output(s) shall be programmable via the camera interface to determine if the input(s) and output(s) normal state is "Normally Open" (NO) or "Normally Closed" (NC).

2.12 COMMUNICATIONS

- A. Network: The camera shall include one Ethernet 10/100 base T ports for TCP/IP LAN/WAN connectivity.
- B. The camera shall be programmable for static or dynamic (DHCP) IP addressing.
- C. The camera shall support the following protocols: IPv4, IPv6, TCP/IP, UDP/IP HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, , CoS, QoS, SNMP and 802.1X
- D. The camera shall support multiple simultaneous user connections and operation for accessing live and recorded video.

2.13 REMOTE PROGRAMMING FUNCTIONS

- A. All camera functions shall be supported by the client web interface including but not limited to:

- a. Ability to change the network configuration of the camera, including IP address, gateway and port information, transmission protocols, security protocols and other values pertaining to standard network configuration
- b. Simple video stream viewing via the web client
- c. Ability to change compression type between H.264, MPEG-4 and MJPEG
- d. Ability to adjust compression level
- e. Ability to adjust framerate
- f. Ability to adjust traditional CCTV camera settings including:
 - i. White balance
 - ii. Hue and Saturation
 - iii. Contrast
 - iv. Gain profile and Gain level
 - v. DC auto-iris control
 - vi. Shutter speed
 - vii. Exposure time
- g. Ability to turn Wide Dynamic Range (WDR) capability on and off
- h. Network Throttling
- i. Password Management
- j. Camera title
- k. Motion detection control including
 - i. Area of motion detection
 - ii. Motion detection sensitivity
 - iii. Percentage of motion for alarm generation
 - iv. Log of recent motion events

2.14 SYSTEM ENTERPRISE MANAGEMENT SOFTWARE

- A. The camera shall be compliant and available for optional system management software support. The system management optional software shall provide for health checks, device status log information, camera input status, firmware upgrades, password management and other system wide functions.

2.15 MECHANICAL

- A. Dimensions: 6.8Φ x 4.8H in. (173Φx 115H mm)
- B. Weight: 3.2 lbs (1444g)
- C. Surface mount with optional recess mount adapter (sold separately)

2.16 ENVIRONMENTAL

- A. Operating Temperature: -40° to 122° F (-40° to 50 ° C)
- B. Humidity: 0 to 90% non-condensing.

2.17 ELECTRICAL

- A. 12V DC or 24V AC
- B. IEEE 802.3af Power Over Ethernet
- C. Power Consumption Typical 9.6W – Peak (with heater) 14W

2.18 REGULATORY AND COMPLIANCE

- A. FCC Part 15 (Subpart B, Class A)
- B. Canada – ICES-003/NMB-003 Class A
- C. CE (EN55022, EN55024)
- D. RoHS

2.19 INSTALLATION AND OPERATION INSTRUCTIONS

- A. The unit shall ship with a CD containing all installation and operating instructions.

2.20 WARRANTY

- A. The product shall contain up to 3-year warranty from the manufacturer.

2.21 VERINT MODEL NUMBERS

- A. S5120FDW-DN