OPENEYE OE-C1018T4 A&E SPECIFICATIONS
4MP Outdoor IP Mini Turret Camera
[www.openeye.net](http://www.openeye.net)

**DIVISION 28 -** ELECTRONIC SAFETY AND SECURITY

**Section 28 00 00** Electronic Safety and Security

**Section 28 20 00** Video Surveillance

**Section 28 21 00** Surveillance Cameras

**Section 28 23 00** Video Management System

**PART 1 GENERAL**

* 1. **SUMMARY OF REQUIREMENTS**
1. **OE-C1018T4 4MP Outdoor IP Mini Turret Camera**
	1. A 4 megapixel IP mini turret camera
2. **Related Requirements**
	1. 28 05 00 Common Work Results for Electronic Safety and Security
	2. 28 05 25 Cloud Based Storage for Electronic Safety and Security
	3. 28 21 13.11 IP Cameras
	4. 28 21 13.13 Analytic Packages for IP Cameras
	5. **REFERENCES**
3. **Abbreviations**
	1. Manufacturer’s installation and operations manuals in digital or printed form.
		1. DHCP - Dynamic Host Configuration Protocol
		2. DNS - Domain Name Server
		3. HTTPS - Secure HTTP
		4. IP - Internet Protocol
		5. NIC - Network Interface Controller
		6. NTP - Network Time Protocol over Ethernet
		7. NVR - Network Video Recorder
		8. OSD - On-screen Display
		9. PoE - Power over Ethernet
		10. PTZ - Pan Tilt Zoom
		11. RTSP - Real-Time Streaming Protocol
		12. SD Card - Secure Digital Flash Memory Card
		13. TCP - Transmission Control Protocol
		14. VMS - Video Management System
		15. FF - Fast Forward
		16. FR - Fast Reverse
		17. LAN - Local Area Network
		18. WAN - Wide Area Network
	2. **CERTIFICATIONS, STANDARDS, AND RATINGS**
4. **Reference Standards**
	1. Networking
		1. IEEE – 802.3 Ethernet Standards
	2. Video
		1. ITU-T Recommendation H.264
	3. **SUBMITTALS**
5. **Product Data**
	1. Provide manufacturer’s datasheets in printed or electronic form.
	2. Provide manufacturer’s installation and operating manuals/guides.
	3. Provide manufacturer’s warranty statement.
	4. **QUALIFICATIONS**
6. **Manufacturer**
	1. Company specializing in manufacturing products with at least ten years of experience.
7. **Supplier**
	1. Authorized distributor of specified manufacturer with at least five years of experience.
8. **Installer**
9. Authorized installer of specified manufacturer with at least 5 years of experience.
	1. **DELIVERY, STORAGE AND HANDLING**
10. **Delivery**
	1. Deliver materials in original, unopened and undamaged packaging in accordance with manufacturer’s instructions.
11. **Storage**
12. Store and guard materials from environmental and temperature conditions in accordance with manufacturer’s instructions.
13. **Handling**
14. Handle and operate products and systems in accordance with manufacturer’s instructions.
	1. **WARRANTY**
15. **Warranty Period**
	1. The manufacturer shall warrant camera for a period of 3 years for the repair or replacement of defective equipment.
	2. **CERTIFICATIONS**
16. **Certification Types**
	1. UL
	2. cUL
	3. FCC
	4. **TECH SUPPORT**
17. **Support**
	1. Technical support shall be based in North America.
	2. Technical support shall be via email or toll-free phone number.
	3. Technical support shall be available weekdays from 5 a.m. to 5 p.m. PST.

**PART 2 PRODUCT**

* 1. **MANUFACTURER**
1. **Manufacturer**
	1. OpenEye

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1. **Product**
2. OE-C1018T4 Outdoor IP Mini Turret Camera
3. **Product Description**
4. A 4 Megapixel outdoor IP mini turret camera in a (white) turret style housing with a fixed lens and H.264 and MJPEG encoding.
	1. **PRODUCT DESCRIPTION**
5. **General**
6. All equipment and materials used shall be standard components, regularly manufactured, regularly utilized in the manufacturer’s system.
7. All systems and components shall have been thoroughly tested and proven in actual use.
8. All systems and components shall be provided with the availability of a toll-free technical support phone number from the manufacturer. The phone number shall allow for immediate technical assistance for either the dealer/installer at no charge.
9. All systems and components shall be provided with an explicit manufacturer warranty.
10. **Description**
11. Camera shall offer remote connectivity and management through a centralized cloud portal that governs video client access and user permissions.
12. Camera shall offer a GUI incorporating video display areas, toolbars and control palettes.
13. Camera shall be fitted with a fixed lens having a focal length of 2.8mm.
14. Camera shall employ high-profile H.264 and MJPEG compression algorithms in the video digitizing scheme.
15. The camera shall provide full digital video surveillance over a standard 100Base-T network.
16. Camera shall continually capture digital video streams. Each stream of video and audio data shall have the capability of being recorded to local storage media or transmitted to an independent recording device/service.
17. Camera shall provide a GUI for viewing live video with audio with controls to zoom, focus, select main or sub streams, go full screen mode and real-time image adjustments controls.
18. Camera shall support exporting of video clips with audio.
19. Camera shall have full LAN, WAN and Internet connection capability. For live viewing of video at highest quality, the camera will require a broadband internet connection of a minimum 5 Mbps using either a static or dynamic type IP address. The camera shall support TCP/IP and DHCP protocol.
20. Camera shall support user selectable resolution, frame rate, bit rate, and GOP size set from the GUI of the IP cameras.
21. Operation of the camera shall be facilitated by the use of a web browser that can be Google Chrome, Apple Safari, Opera, Mozilla Firefox, or Edge.
22. The camera shall contain lights to indicate network and cloud connection status.
23. The camera shall be powered by PoE or a 12VDC power supply.
24. The camera shall make available a reset button for the purpose of applying factory default to the camera’s settings.
25. Camera shall meet or exceed the following design and performance specifications:
	1. Camera shall be auto-discoverable by OpenEye Web Services.
		1. Adding via discovery.
		2. Adding manually.
		3. Importing with a CSV file.
	2. Camera shall make available system information with at least the following camera information: Model, firmware version, and MAC address.
	3. Camera shall allow changing of image attributes to include the following: brightness, contrast, saturation, sharpness, contrast, white balance, WDR, and day/night, and sensitivity.
	4. GUI shall allow the enabling of remote support for a set amount of time, rebooting of the camera, factory default of settings, and downloading of application logs.
26. **Electrical Specification**
	1. Power Input: PoE 802.3af / 12VDC
	2. Power Supply: Max 8W
27. **Environmental Specification**
	1. Operating Temperatures: -22°~140°F (-30° ~ 60°C)
	2. Operating Humidity: 95% R.H. (non-condensing)
28. **Hardware Specification**
	1. Dimension: Ø 4.6" x 3.8" (Ø 118 x 96mm)
	2. Weight: .71Lbs (.32kg)
	3. Ingress Protection: IP67
29. **Mechanical Specification**
	1. System
		1. Image Sensor: 1/3" Progressive CMOS, 4MP
		2. Lens: 2.8mm fixed lens
		3. Field of View: 97°
		4. Day/Night: True Day/Night
		5. Dynamic Range: True WDR
		6. IR-Cut Filter: Yes
		7. IR Range: Up to 98'
		8. Illumination: Dual Light, Infrared, White Light LEDs
	2. Video
		1. Compression: H.264 and MJPEG
		2. Streams: 2 (Main Profile, High Profile)
		3. Resolutions: 2688 x 1520 / 2560 x 1440 / 2304 x 1296 / 1920 x 1080 / 1280 x 720 / 720 x 576 / 640 x 360 @30FPS
		4. Frame Rate: Up to 30FPS
		5. Bitrate: VBR, CBR
		6. Image Rotation: 0°, 90° Clockwise, 90° Counter-clockwise, 180°, Flip Horizontal, Flip Vertical
	3. Audio
		1. Compression: G711.A, G711.U
		2. Inputs: 1 Built-in Mic
		3. Outputs: 1 Speaker
		4. Noise Suppression: Supported
	4. Network
		1. Ethernet: RJ-45, 10/100Mbps
		2. Power Source: PoE 802.3af / 12V±25%
		3. Protocol: IPv4, IPv6
	5. PTZ – N/A
	6. Remote Surveillance
		1. Control System: OpenEye Web Services
		2. Mobile Devices: iOS, Android
	7. Onboard Storage: MicroSD, Up to 512GB
	8. External Storage: N/A

**PART 3 EXECUTION**

* 1. EXAMINATION
1. Device shall be inspected for physical and cosmetic defects.
2. Package box shall include device, mounting screws, waterproof cable connector, and mounting template
	1. PREPARATION
3. ESD-sensitive parts shall be properly protected against static buildup through the use of static shielding material.
4. Package box shall contain adequate padding to prevent damage to device and parts during shipping.
	1. INSTALLATION
5. Device shall be installed in accordance with the manufacturers’ installation guide provided.
6. Device shall be installed by qualified service professionals.
7. Device shall be installed in accordance with the National Electric Code or applicable local codes.
8. Device shall be installed in locations which adequately supports the device’s environmental and electrical requirements.
	1. FIELD QUALITY CONTROL
9. Test for proper communication between device and supporting devices.
10. Test for proper operation of device’s system software and related software programs.
11. Determine and report all problems to the manufacturers’ customer service representatives.
	1. ADJUSTING
12. Make all necessary adjustments to the device and supporting devices to ensure the proper operation of the device.
13. Make all necessary adjustments to the devices to satisfy end-user requirements.
	1. DEMONSTRATION AND TRAINING
14. Perform final inspection to validate and ensure proper functioning of device.

- END OF SECTION -

END OF DOCUMENT