

A&E SPECIFICATION

Advidia A-44-OD 2 MEGAPIXEL VANDALPROOF & WEATHERPROOF NETWORK DOME CAMERA

1.1 GENERAL

- A. This product shall be manufactured by a firm whose quality system is in compliance with the ISO-9001.
- B. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- C. All systems and components shall have been thoroughly tested and proven in actual use.
- D. All systems and components shall be provided with comprehensive repair and spare parts replacement. The manufacturer on warranty and non-warranty items shall guarantee the spare parts and the repair.
- E. All systems and components shall have been thoroughly tested and proven in actual use.
- F. All systems and components must be in compliance with FCC, CE, UL and RoHs requirements.
- G. All materials furnished under this item shall be compliant with 802.3 Ethernet standards.

1.2 HD 2 MEGAPIXEL VANDALPROOF & WEATHERPROOF NETWORK DOME CAMERA

- A. The network camera shall offer dual video streams with up to 2 Megapixel resolution (1600 x 1200) in progressive scan CMOS format, with H.264 video compression.
- B. The network camera shall provide options for electronic and true & day night (ICR) with sensitivity down to 0.1Lux @ (F1.2,AGC ON,sensitivityx5).
- C. The network camera shall be provided with a DC Iris, vari-focal 2.7 – 9 mm @ F1.6 with a motorized zoom and focus for remote setting over the network.
- D. The camera shall offer video compression of H.264, MPEG-4 and MJPEG. Dual H.264 streams shall be supported with independent resolution, bit rate and frame rates for the main and sub streams.
- E. The network camera shall provide a removable, local storage medium (SD/SDHC), up to 32 GB for scheduled and event-based recording of images.
- F. The network camera shall include embedded Linux OS and support IE and client software for network preview, and be capable of performing firmware upgrades through a network using a software-based device utility or thru the web interface.
- G. The network camera shall be equipped with built-in password protection which is not dependent on a server.
- H. The network camera shall support standard IT protocols including: TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, UPnP, SMTP, NTP, PPPoE, ICMP, IGMP, FTP, QOS.
- I. The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af for powering the camera over the network in addition to 24VAC local power. For models with a heater, the camera shall support industry standard High Power over Ethernet (PoE+) IEEE 802.3at for powering the camera over the network in addition to 24VAC local power.
- J. The camera shall provide the ability to take snapshot and record video clips from the web interface and store on the local computer.
- K. The camera shall support video motion detection with user defined areas and configurable sensitivity levels. In addition, the motion detection shall be supported by an arming schedule

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with the audible warning, surveillance center notification, email, ftp upload, and alarm output triggered as supported events.

- L. The camera's web interface shall permit settings to be exported to and imported from a configuration file via the web interface, API and camera manufacturer's client software.
- M. The camera shall conform to ONVIF and PSIA standards for integration with 3rd party video management systems (VMS). The camera may also support custom firmware for specific integration with a 3rd party VMS.
- N. The camera shall be compatible with a Video Management Software (VMS) package and Mobile Phone Application from the same manufacturer which is provided free of charge. The VMS shall not be a restricted use version of the manufacturer's full featured version.

1.3 POWER

- A. Power Supply
 - 1. Models without -H 24 V AC \pm 10%
PoE (802.3af)
 - 2. Models with -H:

24 V AC \pm 10%
High PoE (802.3at)
- B. Power Consumption
 - 1. Models without -I & -H Max. 9W
 - 2. Models with -I Max. 12W
 - 3. Models with -H Max. 24W with heater on

1.4 CAMERA

- A. Image Sensor 1/3" Progressive Scan CMOS
- B. Min. Illumination Color: 0.5Lux @(F1.2,AGC ON),0.1Lux @(F1.2,AGC ON,sensitivityx5)
0.8Lux @(F1.6,AGC ON),0.16Lux @(F1.6,AGC ON,sensitivityx5)
-I:
Color: 0.5Lux @(F1.2,AGC ON),0.1Lux @(F1.2,AGC ON,sensitivityx5)
0.8Lux @(F1.6,AGC ON),0.16Lux @(F1.6,AGC ON,sensitivityx5)
0 Lux with IR
- C. Shutter Time 1/25(1/30) s to 1/100,000 s
- D. Lens 2.7 – 9 mm @ F1.6
Angle of view: 101°-30.4°
- E. Lens control Motorized zoom / focus (push to Auto Focus)
- F. Angle Adjustment Pan: 0 - 355°, Tilt: 0 - 80°, Rotation: 0 - 355°
- G. Auto Iris DC Drive
- H. Max. Image Resolution 1600x1200
- I. Resolutions supported Main Stream: 1600 x 1200@15fps, 1600 x 912@15fps, 1280 x 960@30fps, 1280x720@30fps.
Sub Stream: 4CIF, CIF, QVGA
- J. Day & Night Electronic (-I: IR cut filter with auto switch)
- K. Image Settings Saturation, Brightness, Contrast, Sharpness
- L. Image rotation Mirror
- M. White Balance Auto; AWB1, AWB2, Push to White Balance

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N. Exposure Modes	Indoor, Outdoor
O. TV System	NTSC (30fps); PAL (25fps)
P. Flicker reduction	60 Hz, 50 Hz

1.5 VIDEO SPECIFICATIONS

A. Compression	H.264, MPEG-4, MJPEG
B. Multi-stream	Yes; Main stream up to 1600x1200; sub-stream up to 4CIF
C. Bit Rate	32 Kbps ~ 16 Mbps
D. Rate Control	Constant, Variable
E. H.264 profiles	High, Main, Base
F. Max. Frame Rate (main)	1280 x 960@30fps
G. Sub-stream	4CIF, CIF, QVGA
H. Users	
1. Unicast	Up to 6 simultaneous users
2. Multicast	Unlimited H.264
I. Security Access	Password protected
J. Software Interface	Web browser view and remote client.
K. Video Output	1Vp-p composite output (75 Ω/RCA, for lens adjustment when installation)

1.6 NETWORK

A. Local Storage	Built-in SD/SDHC slot, up to 32 GB
B. Alarm Trigger	Motion detection, tampering, network disconnect, IP address conflict, storage exception
C. Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, ICMP, IGMP, SNMP, FTP, QoS.
D. Security	User authentication, watermark, 802.1x
E. System Compatibility	ONVIF, PSIA
F. Communication Interface	1 RJ45 10 M/100 M Ethernet port (model with –S: 1 RJ45 10 M/100 M Ethernet port, 1-ch RS-485 interface)

1.7 WEB BROWSER REQUIREMENTS

A. Operating System	PC (Intel® Core® 2 Duo microprocessor, 2.6 GHz) with Microsoft® Windows® XP, Windows Vista®, or Windows® 7
B. Web User Interface	DirectX for Windows XP, Windows Vista, Windows 7
C. RAM	2 GB
D. Ethernet Card	100 Mbps
E. Web Brower	Internet Explorer® 7.0 or later; Firefox, Chrome
F. Screen Resolution	1024 x 768 pixels or higher, 16- or 32-bit pixel color resolution

1.8 PHYSICAL

A. Operating Conditions	-10 °C ~ 60 °C (14 °F ~ 140 °F) Model with –H: -40 °C ~ 60 °C (-40 °F ~ 140 °F)
B. Humidity, all models	90% or less (non-condensing)
C. IR LEDs (-I model)	850nm, 18 LEDs
D. IR Range (-I Model)	Up to 100 feet max
E. Construction	
a. Body Material	Aluminum alloy

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- b. Body Color White
- c. Screws Security Torx, Stainless Steel
- F. Dimension (Diameter x H) Φ 159.8 × 146 mm (Φ 6.29" × 5.75")
- G. Weight 2100 g (4.62 lbs)

1.9 CERTIFICATIONS AND RATINGS

- A. Regulatory
 - a. IEC/EN 61000
 - b. IEC/EN 55022
 - c. IEC/EN 55024
 - d. IEC /EN60950-1
 - e. FCC Part 15, Class b
 - f. UL/cUL 60950-1
 - g. RoHS
- B. Ratings
 - a. Impact Protection IEC60068-275Eh, 50J; EN50102, up to IK10
 - b. Ingress Protection IP66

1.10 WARRANTY

- A. 3 years, parts and factory labor