

# A&E SPECIFICATION

## Advidia A-46 2 MEGAPIXEL WEATHERPROOF & VANDALPROOF NETWORK MINI 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 WEATHERPROOF & VANDALPROOF NETWORK MINI DOME CAMERA

- A. The network camera shall offer dual video streams with up to 1600 × 1200 @ 15fps in progressive scan CMOS format, with H.264 video compression.
- B. The network camera shall provide true & day night (ICR) low-light capabilities with sensitivity down to 0.1Lux @(F1.2,AGC ON, sensitivity × 5).
- C. The network camera shall support DC Iris.
- D. The camera shall offer video compression of H.264, MPEG-4 and MJPEG. Dual H264 streams shall be supported with independent resolution, bit rate and frame rates for the main and sub streams.
- E. 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.
- F. The network camera shall be equipped with built-in password protection which is not dependant on a server.
- G. The network camera shall support standard IT protocols including: TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, ICMP, IGMP, SNMP, FTP, QoS.
- H. The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af for powering the camera over the network in addition to 12VDC local power.
- I. The camera shall provide the ability to take snapshot and record video clips from the web interface and store on the local computer.
- J. 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 with the audible warning, surveillance center notification, email, ftp upload, and alarm output triggered as supported events.
- K. 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.
- L. The camera shall conform to ONVIF, PSIA and CGI standards for integration with 3<sup>rd</sup> party video management systems (VMS). The camera may also support custom firmware for specific integration with a 3<sup>rd</sup> party VMS.

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- M. 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 12 V DC  $\pm$  10%, PoE (802.3af)  
B. Power Consumption Max. 4 W

### 1.4 CAMERA

- A. Image Sensor 1/3" Progressive Scan CMOS  
B. Min. Illumination Color: 0.5 Lux @ (F1.2, AGC ON), 0.1 Lux @ (F1.2, AGC ON, sensitivity  $\times$  5)  
1.1 Lux @ (F1.8, AGC ON), 0.2 Lux @ (F1.8, AGC ON, sensitivity  $\times$  5)  
C. Shutter Time 1/25s (1/30s) to 1/100,000 s  
D. Lens 4 mm @ F1.8 (2.8, 6, 8 mm optional)  
Angle of view 68°  
E. Lens control Fixed  
F. Angle adjustment Pan:  $\pm$  15°, Tilt: 0 - 90°, Rotation:  $\pm$  15°  
G. Auto Iris DC Drive  
H. Max. Image Resolution 1600  $\times$  1200  
I. Resolutions supported Main Stream: 1600  $\times$  1200@15fps, 1600  $\times$  912@15fps,  
1280  $\times$  960@30fps, 1280 $\times$ 720@30fps.  
Sub Stream: 4CIF, CIF, QVGA  
J. Day & Night Electronic  
K. Back Light Compensation On, Off. Zones  
L. Image Settings Saturation, Brightness, Contrast, Sharpness  
M. Image rotation Mirror;  
N. White Balance Auto; AWB1, AWB2; Push to White Balance  
O. Exposure Modes Indoor, Outdoor

### 1.5 VIDEO SPECIFICATIONS

- A. Compression H.264, MPEG-4, MJPEG  
B. Dual Stream Yes; Main stream up to 1600  $\times$  1200; sub-stream up to 4CIF  
C. Bit Rate 32 Kbps ~ 16 Mbps  
D. Rate Control Constant, Variable  
E. H264 profiles High, Main, Base  
F. Max. Frame Rate (main) 1280  $\times$  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.

### 1.6 NETWORK

- A. Alarm Trigger Motion detection, tampering  
B. Protocols TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, ICMP, IGMP, SNMP, FTP, QoS.

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- C. Security User authentication, watermark, 802.1X
- D. System Compatibility ONVIF, PSIA
- E. Communication Interface 1 RJ45 10 M/100 M Ethernet port

### 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 Browser 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)
- B. Humidity, all models 90% or less (non-condensing)
- C. Dimension (Diameter x H) 99.9 × 97.5 × 46.5 mm (3.93" × 3.84" × 1.83")
- D. Weight 250 g (0.55 lbs)
- E. Construction
  - a. Body Material Aluminum alloy
  - b. Body Color White
  - c. Screws Stainless Steel, Security Torx

### 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. Ingress Protection IP66
  - b. Impact Protection IEC60068-2-75 test, Eh, 50J; EN50102, up to IK10

### 1.10 WARRANTY

- A. 3 years, parts and factory labor