

A&E SPECIFICATION

Advidia A-44-IR-V2 2 MP NETWORK DOME CAMERA

TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

PART 2 - PRODUCTS

2.1 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

2.2 2MP NETWORK DOME CAMERA

- A. The network camera shall offer three video streams with up to 2MP resolution (1920 x 1080) in progressive scan CMOS format, with H.264 video compression.
- B. The network camera shall be provided with a DC Iris, vari-focal lens with 2.8-9.0mm with motorized zoom and focus for remote setting over the network.
- C. The network camera shall provide true & day night (ICR) low-light capabilities with sensitivity down to 0.014Lux @F1.4,AGC ON, 0 Lux with IR
- D. The network camera shall support Back-Light Compensation (BLC) with selectable zones.
- E. The network camera shall offer video compression of H.264 and MPEG-4. Three H.264 streams shall be supported with independent resolution, bit rate and frame rates for the main, sub and third streams.
- F. The network 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, and alarm output triggered as supported events.
- G. The network camera shall support smart features including intrusion zones, transverse plane (tripwire), facial detection, out of focus detection, out of position (tampering) detection and audio level detection. The smart function shall all be supported simultaneously without degrading camera performance.
- H. 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 through the web interface.
- I. The network camera shall be equipped with built-in password protection which is not dependent on a server.

- J. The network camera shall support standard IT protocols including: TCP/IP, ICMP, HTTP, HTTPS, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IGMP, IPv6, Bonjour (SIP optional).
- K. 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.
- L. The network camera shall be vandal-resistant with impact ratings of IEC60068-275Eh, 50J; EN50102, up to IK10.
- M. The network camera shall be capable of being mounted to a 4S electrical box with no additional accessory items required.
- N. The network camera shall have a built in, 850nm IR illuminator with 30 LEDs for an effective distance of up to 30m.
- O. The Network camera shall be compatible with a wide range of mounting accessories from the same manufacturer including but not limited to an indoor/outdoor pendant mount which is compatible with wall, pole, corner, ceiling brackets and an adapter for other manufacturers 1 1/2" NPT mounts.
- P. The network 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.
- Q. The network camera shall conform to ONVIF, PSIA and CGI 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.
- R. The network 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.
- S. The network camera shall meet or exceed the following design and performance specifications.

2.3 ELECTRICAL SPECIFICATIONS

- A. Power Supply 12 VDC ± 10%; Terminal Block PoE (802.3af); RJ45
- B. Power Consumption Max. 9W
- C. Network Interface 100Base-TX RJ45
- D. Audio In/Out Connector
- E. Alarm Inputs- 1 Connector
- F. Alarm Outputs -1 Connector
- G. RS-485 Connector

2.4 CAMERA

- A. Image Sensor 1/3" Progressive Scan CMOS
- B. Min. Illumination 0.014 Lux @ (F1.4, AGC ON), 0 lux with IR
- C. Shutter Time 1s to 1/100,000s
- D. Iris Mode DC drive
- E. Lens 2.8-9mm @ F1.4, angle of view: 113-33.8°
8-32mm @ F1.4, angle of view:
- F. Lens Mount Φ14
- G. Auto Iris DC Drive
- G. Angle Adjustment Pan: 0~ 355°, Tilt: 0~ 75°, Rotation: 0~ 355°
- H. Max. Image Resolution 1920 x 1080
- I. Resolutions supported Main Stream: (1920 x 1080, 1280 x 960, 1280 x 720)@30fps;

	Sub Stream: (4CIF, CIF, VGA)@25/30fps
	Third Stream: (1920 x 1080,1280 x 960,1280 x 720, 4CIF, CIF, VGA)@25/30fps
J. Day & Night	Day, Night, Auto, Schedule,
K. D/N Sensitivity	high, normal and low
L. IR	Enable / Disabled
P. Digital Noise Reduction	Off, Normal Mode (2D) and Expert Mode (3D - Independent Time, Space)
Q. Noise Reduction Level	Selectable levels (1-100)
R. Scene Mode:	indoor or Outdoor.
S. Image Settings	
a) Saturation	Adjustable 1-100
b) Brightness	Adjustable 1-100
c) Contrast	Adjustable 1-100
d) Sharpness	Adjustable 1-100
e) AGC	Adjustable 1-100
T. Image rotation	Mirror (Left/Right, Up/Down, Center, Off)
V. TV System	NTSC (30fps); PAL (25fps)
W. Flicker reduction	60 Hz, 50 Hz
X. On-Screen Display	User positionable- Camera Title, Date/Time, 4 Rows Text, bitmap
Y. Camera Title	32 Characters, User positionable
Z. Time/Date	Multiple formats/modes
AA. Text Overlay	4 Lines, 44 characters;
AB. Graphics	128*x128 BMP with 24bit color depth
AC. Privacy Masks	4
AD. Defog	On/Off
AE. Stabilization (EIS)	On/Off

2.5 VIDEO&AUDIO SPECIFICATIONS

A. Compression	Main stream: H.264, MPEG4 Sub stream: H.264, MPEG4 Third stream: H.264, MPEG4
B. Three Streams	Yes; Main stream up to 1920 x 1080; sub-stream up to 704 x 576; third stream up to 1920 x 1080
C. Video Bit Rate	32 Kbps ~ 16 Mbps
D. Audio Compression	G.711/G.722.1/G.726/MP2L2
E. Audio Bit Rate	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2)
F. Rate Control	Constant, Variable
G. H.264 profiles	Main profile
H. Max. Frame Rate(main)	30fps@1920 x 1080
I. Sub-stream	4CIF, CIF, VGA
J. Third-stream	1920 x 1080, 1280 x 960, 1280 x 720, 4CIF, CIF, VGA
K. Users	
1. Unicast	Up to 20 simultaneous users
2. Multicast	Unlimited H.264
L. Security Access	Password protected
M. Software Interface	Web browser view and remote client.

2.6 SMART FUNCTIONS

- A. Motion Detection Normal mode and expert mode. Expert mode- 8 regions; independent Day and night settings; adjustable sensitivity and proportion of motion
- B. Face Detection Up to 30 faces, adjustable sensitivity; Response Action: trigger e-mail, control center or FTP linkage
- C. Audio exception detection Audio level and threshold
- D. Intrusion Detection 4 regions- independent threshold, direction, sensitivity and percentage
- E. Out of Focus Detection Change in focus from reference image
- F. Scene Change Detection Scene change (tampering) detection form reference image
- H. Traverse Virtual Plane 4- Irregular user defined lines with independent sensitivity
- I. People Counting Defined zone, direction

2.7 NETWORK

- A. Alarm Trigger Motion detection, tampering alarm, network disconnect, IP address conflict
- B. Protocols TCP/IP, ICMP, HTTP,HTTPS, DHCP,DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IGMP, IPv6, Bonjour (SIP optional)
- C. Security User authentication, watermark, IP address filtering, Anonymous access
- D. System Compatibility ONVIF, PSIA, CGI
- E. Communication Interface 1 RJ45 10 M/100 M Ethernet port

2.8 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

2.9 PHYSICAL

- A. Operating Conditions -30 °C – 60 °C (-22 °F – 140 °F)
- B. Humidity 95% or less (non-condensing)
- D. IR Range Up to 30m (90ft)
- E. IR LEDS 850nm, Qty 30
- F. Dimension $\Phi 140 \times 121.8$ mm (5.51" \times 4.80")
- G. Weight 1400 g (3.09 lbs)
- H. Construction
 - a. Body Material Aluminum alloy
 - b. Body Color Hikvision White
 - c. Screws Stainless Steel, Security Torx
 - d. Bubble Clear Polycarbonate, IK10 Rated
- I. Conduit Interface $\frac{3}{4}$ " NPT Side; $\frac{3}{4}$ " Bottom

2.10 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

2.11 WARRANTY

- A. 3 years, parts and factory labor