

A&E SPECIFICATION

Advidia A-54-OD 3MP WDR NETWORK DOME CAMERA

TECHNICAL SPECIFICATIONS

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 3MP WDR NETWORK DOME CAMERA

- A. The network camera shall offer three video streams with up to 3MP resolution (2048×1536) 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 lens 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 provide up to 120dB of wide dynamic range (WDR). The WDR shall support both automatic and manual modes. The WDR shall be based upon luminance-adaptive Tone Mapping (LATM) and Space-variant Contrast Enhancement (SVCE) algorithms.
- E. The network camera shall support Back-Light Compensation (BLC) with selectable zones.
- F. The network camera shall offer video compression of H.264. Three H.264 streams shall be supported with independent resolution, bit rate and frame rates for the main, sub and third streams.
- G. 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.
- H. 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.
- I. 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.
- J. The network camera shall be equipped with built-in password protection which is not dependent on a server.

- K. 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).
- L. The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3at for powering the camera over the network in addition to 12VDC or 24VAC local power.
- M. The network camera shall be in a vandal resistant environmental IP66 enclosure surface mount dome housing with 3/4" conduit access side and bottom. The lid shall have a clear polycarbonate bubble and be secured with security torx tamper resistant screws.
- N. The network camera shall be capable of being mounted to a 4S electrical box with no additional accessory items required.
- O. The network camera shall provide a heater and fan for low temperature operation as a standard feature on 802.3at PoE, 12VDC and 24VAC
- P. The network camera shall have a built in, 850nm IR illuminator with 30 LEDs for an effective distance of up to 30m.
- Q. 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.
- U. The network camera shall provide the ability to take snapshot and record video clips from the web interface and store on the local computer.
- V. 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.
- W. 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.
- X. 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.
- Y. The network camera shall meet or exceed the following design and performance specifications.

1.3 ELECTRICAL SPECIFICATIONS

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| A. | Power Supply | 12 VDC/24VAC \pm 10%; Terminal Block
PoE (802.3at); RJ45 |
| B. | Power Consumption | Max. 13.5W |
| C. | Network Interface | 100Base-TX RJ45 |

1.4 CAMERA

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| A. | Image Sensor | 1/2.8" 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° |
| F. | Lens Mount | AF automatic focusing and motorized zoom lens |
| G. | Auto Iris | DC Drive |
| H. | Max. Image Resolution | 2048x1536 |

I. Resolutions supported	2048X1536 @ 45fps, 1920X1080 @ 60fps, 1280x960 @ 60fps, 1280X720 @ 60fps
J. Day & Night	Day, Night, Auto, Schedule,
K. D/N Sensitivity	High, normal and low
L. IR	Enable / Disabled
M. WDR	120dB, selectable level; Auto, On, Off
N. Back Light Compensation	On/ Off, Zone configurable
O. BLC Area	Selectable: Off, Up, Down, Left, Right and Center
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)
U. White Balance	MWB, AWB1, AWB2, Locked WB, Fluorescent Lamp, Incandescent Lamp, Warm Light Lamp, Natural Light
V. TV System	NTSC (30fps); PAL (25fps)
W. Flicker reduction	60 Hz, 50 Hz
X. On-Screen Display	User can determine location - Camera Title, Date/Time, 4 Rows Text, bitmap
Y. Camera Title	30 Characters, User can determine location
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

1.5 VIDEO&AUDIO SPECIFICATIONS

A. Compression	Main stream: H.264 Sub stream: H.264 Third stream: H.264
B. Three Streams	Yes; Main stream up to 1920 × 1080; sub-stream up to 704 x 576; third stream up to 1920 × 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)	50/60fps@1920 × 1080
I. Sub-stream	4CIF, CIF, VGA
J. Third-stream	1920 x 1080, 1280 × 960, 1280 × 720, 4CIF, CIF, VGA
K. Users	

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|-----------------------|-------------------------------------|
| 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. |

1.6 SMART FUNCTIONS

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| 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 |
| G. Traverse Virtual Plane | 4- Irregular user defined lines with independent sensitivity |

1.7 NETWORK

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| A. Alarm Trigger | Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception |
| 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 |

1.8 WEB BROWSER REQUIREMENTS

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| 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 |

1.9 PHYSICAL

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| A. Operating Conditions | -40 °C – 60 °C (-40 °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 | Φ159.8 × 146 mm (Φ 6.29" × 5.75") |
| G. Weight | 2100 g (4.62 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 ¾" NPT Side; ¾" Bottom

1.10 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. Ingress Protection IP66

1.11 WARRANTY

- A. 3 years, parts and factory labor