

A&E SPECIFICATION

Advidia A64 HD 6 MEGA PIXEL NETWORK OUTDOOR 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 HD 6 MEGA PIXEL NETWORK DOME CAMERA

- A. The network camera shall offer three video streams with up to 6MP resolution (3072 × 2048) 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 0.01Lux @(F1.2,AGC ON), 0 Lux with IR & 0.014Lux @(F1.4,AGC ON), 0 Lux with IR
- C. The network camera shall support Back-Light Compensation (BLC) with selectable zones.
- D. The 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.
- 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 through the web interface.
- F. The network camera shall be equipped with built-in password protection which is not dependent on a server.
- G. The network camera shall support standard IT protocols including: TCP/IP,UDP,ICMP,HTTP,HTTPS,DHCP,DNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP,IGMP,IPv6,Bonjour(SIP optional).
- H. The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af/802.3at for powering the camera over the network in addition to 24VAC/12VDC local power.
- I. 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, upload, and alarm output triggered as supported events.
- J. 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.
- K. The 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.

- L. 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 VDC \pm 10%, 24 VAC \pm 10%, PoE (802.3af);
Heater: 12 VDC \pm 10%, 24 VAC \pm 10%, PoE (802.3at)
- B. Power Consumption Max. 17W

1.4 CAMERA

- A. Image Sensor 1/1.8" Progressive Scan CMOS
- B. Min. Illumination 0.01 Lux @ (F1.2, AGC ON), 0 lux with IR
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 2.8-12mm @ F1.4, angle of view: 94.5 $^{\circ}$ ~30.5 $^{\circ}$
- F. Lens Mount AF automatic focusing and motorized zoom lens
- G. Max. Image Resolution 3072 \times 2048
- H. Resolutions supported Main Stream: 50Hz: 25fps(3072 \times 2048, 3072 \times 1728, 2560 \times 2048, 2560 \times 1920, 2048 \times 1536, 1920 \times 1080, 1280 \times 720);
60Hz: 24fps(3072 \times 2048), 30fps(3072 \times 1728, 2560 \times 2048, 2560 \times 1920, 2048 \times 1536, 1920 \times 1080, 1280 \times 720);
Sub Stream: (4CIF, CIF, VGA)@25/30fps
Third Stream: (1280 \times 720, 4CIF, CIF, VGA)@25/30fps
- I. Day & Night Day, Night, Auto, Schedule, Triggered by alarm input are selectable in Day/night Switch; two groups of parameters can be set respectively for day and night
- J. IR Enable or Close
- K. Sensitivity If you choose auto day/night switch, you can choose the sensitivity of the switch as high, normal and low
- L. WDR Digital Wide dynamic range can be used when there is a high contrast of the bright area and the dark area of the scene
- M. BLC Area BLC area is the area sense the light intensity; Close, Up, Down, Left, Right and Center are selectable
- N. Back Light Compensation On/ Off, Zone configurable
- O. Digital Noise Reduction Off, Normal Mode and Expert Mode are selectable
- P. Noise Reduction Level For adjusting the noise reduction level and only valid when the DNR function is enabled
- Q. Scene Mode: Choose the scene as indoor or outdoor.
- R. Image Settings Saturation, Brightness, Contrast, Sharpness
- S. Image rotation Mirror(Left/Right, Up/Down, Center, Close)
- T. White Balance MWB, AWB1, AWB2, Locked WB, Fluorescent Lamp, Incandescent Lamp, Warm Light Lamp, Natural Light

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 3072 \times 2048; sub-stream up to 704 \times 576;
third stream up to 1280 \times 720
- 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	Base Line Profile / Main Profile / High Profile
H. Max. Frame Rate(main)	24/25fps@3072 × 2048
I. Sub-stream	4CIF, CIF, VGA
J. Third-stream	1280 × 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.

1.6 NETWORK

A. Alarm Trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception
B. Protocols	TCP/IP, UDP, 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(PROFILE S, PROFILE G), PSIA, CGI, ISAPI
E. Communication Interface	1 RJ45 10 M/100 M/1000M Ethernet port
F. On-board storage	Built-in Micro SD/SDHC/SDXC card slot, up to 128 GB

1.7 SMART ITEM

A. Motion Detection	Normal mode and expert mode are available. In expert mode, sensitivity and proportion of motion detection can be set for 8 regions and day or night
B. Face Detection	Human face that appears in the image can be recognized and trigger e-mail, center or FTP linkage, and sensitivity of which can be adjusted
C. Audio exception detection	As the sound of environment is abnormal, the device can recognize it and trigger alarm output
D. Intrusion Detection	4 regions of rectangular area can be set with different threshold, sensitivity and percentage
E. Line Crossing Detection	4 lines can be set with different sensitivity to detect line crossing behaviour
F. Defocus Detection	If focus of IPC is changed, device can trigger alarm output
G. Scene Change Detection	Arming schedule can be set for scene change detection; alarm output can be linked
H. Defog	Defog can be turned on to get clear image in fog or haze
I. VCA	VCA information can be written in streams, and back-end devices can search for video clips contain specified type of events
J. People Counting	People entrance or exit amount can be calculated and displayed in live view (day/month/year based data chart can be exported)

1.8 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 10/100/1000 Mbps Self-adaptive
- 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

- A. Operating Conditions -30 °C ~ 60 °C (-22 °F ~ 140 °F)
-40 °C – 60 °C (-40 °F – 140 °F) with smart heater on
- B. Humidity, all models 95% or less (non-condensing)
- C. IR Range Approx. 10 to 30 meters
- D. Dimension $\Phi 164.9 \times 127$ mm ($\Phi 6.49" \times 5"$)
- E. Weight 2100 g (4.62 lbs)
- F. Construction
 - a. Body Material Aluminum alloy
 - b. Body Color White
 - c. Screws Stainless Steel, Security Torx

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
 - h. IEC 60068-2-75 test,Eh,50J;EN 50102,IK10
- B. Ratings
 - a. Ingress Protection IP67
 - b. Impact Protection IK10