

A&E SPECIFICATIONS

A-300 2MP HIGH SPEED IR PTZ DOME

TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

2.01 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 must be in compliance with FCC, CE, UL and RoHs requirements.
- F. All materials furnished under this item shall be compliant with 802.3 Ethernet standards

2.02 2MP HIGH SPEED IR PTZ DOME

- A. The camera shall offer three video streams with up to 2MP resolution, utilizing a progressive scan CMOS imaging sensor.
- B. The camera shall offer weatherproof casing (rated IP66)
- C. The camera shall offer video compression of H.265, H.264 and MJPEG.
- D. The camera shall have an integrated IR illuminator, with range up to 150m distance, with angle adjustable by zoom level.
- E. The camera shall provide true day night, low-light capabilities, with integrated IR cut filter, with sensitivity down to 0.05 lux in color and 0.001 lux in black/white and 0 Lux with IR.
- F. The camera shall be capable of performing firmware upgrades through a network using a software-based device utility or from the web interface.
- G. The camera shall be equipped with built-in password protection which is not dependent on a server.
- H. The camera shall provide the ability to take snapshot and record video clips from the web interface and store on the local computer.
- 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 surveillance center notification, email, ftp 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.

2.03 POWER

- A. Power Supply 24 V AC or Hi-PoE
- B. Power Consumption 24 V AC: 60W maximum
Hi-PoE: 50W maximum

2.04 CAMERA

- A. Image Sensor 1/2.8" Progressive Scan CMOS
- B. Effective Pixel 1920 (H) × 1080 (V)
- C. Resolution 2MP
- D. Min. Illumination Color: 0.05Lux @ (F1.6, AGC On)
B/W: 0.03Lux @ (F1.6, AGC On)
0 lux with IR
- E. White Balance Auto, Manual, ATW, Indoor, Outdoor, Daylight Lamp, Sodium Lamp
- F. AGC Auto, Manual
- G. S/N Ratio ≥ 50 dB
- H. BLC On, Off
- I. HLC On, Off
- J. WDR On, Off
- K. Defog On, Off
- L. Shutter Time 1/30 ~ 1/10,000s
- M. Day & Night IR Cut Filter
- N. Digital Zoom 16x
- O. Privacy Mask 24 privacy masks programmable; optional multiple colors and mosaics in irregular shape
- P. Digital Slow shutter Yes
- Q. Image settings Saturation, brightness, contrast, sharpness
- R. Image rotation Mirror(center, off)
- S. Noise Reduction 3D, selectable level (1-100)
- T. On screen Display Title (32 characters), Date, Time; User defined location
- U. OSD Display Modes Transparent, non-transparent; flashing, non-flashing
- V. Smart IR Support

2.05 VIDEO&AUDIO SPECIFICATIONS

- A. Video Compression H.265, H.264, MJPEG
- B. Audio Compression G.711ulaw/G.711alaw/G.726/MP2L2
- C. Three Stream Yes
- D. Resolutions supported Main Stream: up to 1920 × 1080
Sub Stream: up to 704 × 576
Third Stream: up to 1920 × 1080
- E. Video Bit rate 32 Kbps ~16 Mbps
- F. Rate Control Constant, Variable
- G. Max. Frame Rate 25fps (1920 × 1080), 30fps (1920 × 1080)
- H. Users
 - 1. Unicast Up to 10 simultaneous users depending on resolution settings
 - 2. Multicast Unlimited HH.264
- I. Security Access Password protected

J.	Software Interface	Web browser view and remote client.
2.06	NETWORK	
A.	Ethernet	RJ-45 10M/100M self adaptive
B.	Alarm trigger	Motion detection, Audio Exception Detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception
C.	Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE
D.	Security	User authentication, Host authentication, Watermark, IP address filtering
E.	System Compatibility	ONVIF, PSIA, CGI
2.07	CONNECTORS	
A.	Communication interface	1 RJ45 10 M / 100 M Ethernet port
B.	RS-485 interface	Support
C.	Analog Output	1Vp-p Composite Output (75ohm/ BNC)
D.	Alarm Input	Support
E.	Alarm Output	Support
F.	SD/SDHC slot	Up to 128GB
2.08	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
2.09	LENS	
A.	Focus Model	Auto, Semiautomatic, Manual
B.	Focal Length	4.3 ~129mm, 30x
C.	Zoom Speed	Approx.4.5s (Optical Wide-Tele)
D.	Angle of View	65.5° ~ 2.11° (Wide-Tele)
E.	Aperture Range	F1.6 – F5.0
2.010	PAN AND TILT	
A.	Pan Range	360° endless
B.	Pan Speed	Pan Manual Speed: 0.1° -160°/s Pan Preset Speed: 240°/s
C.	Tilt Range	-10° ~ 90° (Auto Flip)
D.	Tilt Speed	Tilt Manual Speed: 0.1° ~ 120°/s Tilt Preset Speed: 200°/s
E.	Proportional Zoom	Rotation speed can be adjusted automatically according to zoom multiples
F.	Number of Preset	300
G.	Patrol	8 patrols, up to 32 presets per patrol
H.	Pattern	4 patterns, with the recording time not less than 10 minutes per pattern
I.	Power Loss Recovery	Support

J. Park Action	Preset, Patrol, Pattern, Pan scan, Tilt scan, Random scan, Frame scan, Panorama scan
K. PTZ Position Display	On, Off
L. Freeze Frame	Support
M. IR Illuminator	Up to 150m effective range; variable by zoom level
N. Smart Tracking	Yes
2.011 ALARM	
A. Alarm Input	7
B. Alarm Output	2 relay outputs, alarm response actions option
C. Alarm Trigger	Motion detection, Audio exception detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception
D. Alarm Actions	Preset, Patrol, Pattern, Pan scan, Tilt scan, Random scan, Frame scan/Panorama scan, Relay output
2.012 INPUT/OUTPUT	
A. Monitor Output	1.0 V [p-p] / 75 ohm, NTSC (or PAL) composite, BNC
B. Audio Input	Mic in/Line in Line input: 2-2.4 V [p-p]; output impedance: 1 Kohm, ±10%
C. Audio Output	Line level, impedance: 600 ohm
2.013 CLIENT GUI	
A. Camera Control	Pan/Tilt, Zoom, Focus, Click centering, Drag zoom, Iris, Preset position call and program, Auto mode.
B. OSD	Up to 32 characters
C. Date & Time Display	Time: Week: Date, 6 formats on the Client
D. Reading Patrol Message	Display and reading of preset message contained in each patrol via client software
2.014 PHYSICAL SPECIFICATIONS	
A. Dimension (Dia.x H)	Φ245×399mm (Φ9.65"×15.71")
B. Weight (approx.)	6 kg (13.23 lbs)
C. Mount Options	Wall, Pendant, Corner and Pole
2.015 ENVIRONMENTAL SPECIFICATIONS	
A. Operating Temperature	24 VAC: -40 °C-65°C(-40°F-149°F) Hi-PoE: -30 °C-65°C(-22°F-149°F)
B. Operating Humidity	90% or less
2.016 CERTIFICATIONS AND RATINGS	
A. Regulatory	
1. IEC/EN 61000	
2. IEC/EN 55022	
3. IEC/EN 55024	
4. IEC /EN60950-1	
5. FCC Part 15, Class b	
6. UL/cUL 60950-1	
7. RoHS	
B. Ratings	
1. Weatherproof Rating	IP66

2. Electrical Protection

TVS 4,000V lightning protection, surge protection and voltage transient protection

2.017 ACCESSORIES

- A. A-200-WM
- B. A-200-CNR
- C. A-200-PM
- D. A-200-LPM
- E. A-200-CM

Wall mount bracket
Corner mount bracket
Vertical Pole mount bracket
Pendant mount bracket (500mm)
Ceiling mount

2.018 MODEL

- A. A-300

2MP/1080p, IR High Speed Dome Camera.