A&E SPECIFICATION

Advidia A-55 3MP NETWORK BULLET 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 BULLET CAMERA

A. The network camera shall offer three video streams with up to 3MP resolution (2048 x 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 0.14Lux @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 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.

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 802.3af for powering the camera over the network in addition to 12VDC 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 for low temperature operation as a standard feature on 802.3af PoE or 12VDC.

P. The network camera shall have a built in, 850nm IR illuminator with 48 LEDs for an effective distance of 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 ½" NPT mounts.

R. 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.

S. 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.

T. 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.

U. The network camera shall meet or exceed the following design and performance specifications.

1.3 ELECTRICAL SPECIFCATIONS

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

1.4 CAMERA

A.	Image Sensor	1/3" Progressive Scan CMOS
B.	Min. Illumination	0.14 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: 105.2-31.9°
F.	Lens Mount	Φ14
G.	Auto Iris	DC Drive
H.	Max. Image Resolution	2048 x 1536

I.	Resolutions supported	Main Stream: 2048 × 1536@20fps, (1920 × 1080, 1280×720) @25/30fps; Sub Stream: (4CIF, CIF, VGA)@25/30fps Third Stream: (2048 × 1536, 1920 × 1080, 1280 × 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
M.	WDR	True 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 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

1.5 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 2048 × 1536; sub-stream up to 704 x 576; third stream up to 2048 × 1536
C.	Video Bit Rate	32 Kbps ~ 16 Mbps
F.	Rate Control	Constant, Variable
G.	H.264 profiles	Main profile
H.	Max. Frame Rate(main)	25/30fps@1920 × 1080
I.	Sub-stream	4CIF, CIF, VGA
J.	Third-stream	2048 × 1536, 1920 x 1080, 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 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

1.7 NETWORK

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

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

A.	Operating Conditions	-40 °C – 60 °C (-40 °F – 140 °F) with smart heater on
B.	Humidity	90% or less (non-condensing)
C.	Heater	Standard
D.	IR Range	30m
E.	IR LEDS	850nm, Qty 48
F.	Dimension	98 × 105 × 328.8 mm (3.86” × 4.13” × 12.94”)
G.	Weight	1700 g (3.75 lbs)
H.	Construction	
	a. Body Material	Aluminum alloy
	b. Body Color	White
	c. Screws	Stainless Steel, Security Torx
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