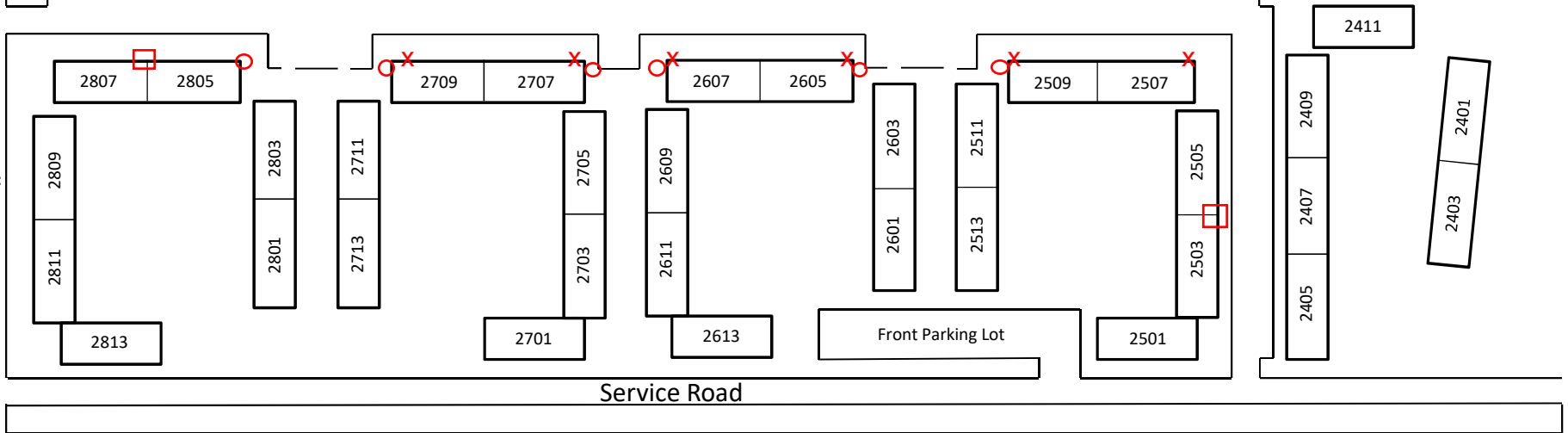


Cambridge Courts Condominium Arlington, VA

Long Branch
Elementary School



Fillmore St.



Rt. 50

*Map not to scale

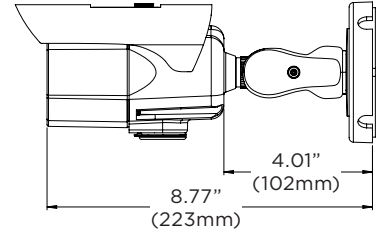
- Antenna
- License Plate Reader Camera
- × Dome Camera



- 4MP Resolution
- All-in-one cameras
- No Server Required
- 256GB 128GB 64GB Storage
- 30x Up to 30 Cameras
- 2.8-12mm Auto Focus Lens
- 5 YEAR Warranty

Dimensions

unit: inch (mm)



* Dimensions based on the position of the sun shield cover

Specifications



Designed and engineered in U.S.A and Korea

IMAGE	
Image sensor	4MP 1/3" CMOS
Total pixels	2688 (H) x 1520 (V)
Minimum scene illumination	0.2 lux (color) 0.0 lux (B/W)
Video output	Local video output CVBS 1.0V p-p (75Ω), 4:3 aspect ratio
Resolution	4MP (2560 x 1440)
LENS	
Focal length	2.8-12mm, F1.4
Lens type	Motorized-zoom auto-focus p-iris lens
Field of view (FoV)	87° - 32°
IR distance	120ft range
Optical zoom	x4.2
I/O	
Audio in / out	1/1
Audio compression	G.711
Alarm in / out	1/1
OPERATIONAL	
Shutter mode	Auto, manual, anti-flicker, slow shutter
Shutter speed	1/15-1/32000
Slow shutter	1-1/5, 1/7.5, 1/10
Auto gain control	Auto
Day / night	Auto, day (color), night (B/W)
Smart DNR™ 3D digital noise reduction	0-11
Wide dynamic range (WDR)	True WDR off, WDR2x, WDR3x
Wide dynamic range (WDR) dB	120dB
Privacy zone	16 programmable privacy masks
Alarm notifications	Notifications via e-mail, FTP server or alarm output activation
NETWORK	
LAN	802.3 compliance 10/100 LAN
Video compression type	H.264, MJPEG
Resolution	H.264: 1440p/1080p/720p/VGA/D1/CIF MJPEG: 1280x720/800x600/VGA/768x432/D1/CIF
Frame rate	Up to 30fps at all resolutions
Video bitrate	100Kbps - 10Mbps, multi-rate for preview and recording
Bitrate control	Multi-streaming CBR/VBR at H.264 (controllable frame rate and bandwidth)
Streaming capability	Dual-stream at different rates and resolutions
IP	IPv4
Protocol	Zero config (Auto IP), ONVIF, TCP/IP, UDP, RTP (UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2c/v3 (MIB-2)
Security	HTTPS (TLS), IP filtering, 802.1x, digest authentication (ID/PW)
ONVIF conformance	Yes
Web viewer	OS: Windows®, Mac® OS, Linux® Browser: Internet Explorer®, Google Chrome®, Mozilla Firefox®, Safari®
Video management software	DW Spectrum® IPVMS
Number of DW Spectrum® CaaS™ licenses included	1 DW Spectrum® CaaS™ license included
Local server recording	DWC-MB44WiAC2: 256GB local memory for recording DWC-MB44WiAC1: 128GB local memory for recording DWC-MB44WiAC6: 64GB local memory for recording
Max. number of CaaS™ cameras in the same network/system	Up to 30 MEGApiX® CaaS™ cameras in the same network/system
ENVIRONMENTAL	
Operating temperature	-40°F - 122°F (-40°C - 50°C)
Operating humidity	10-90% RH (non-condensing)
IP rating	IP66-rated
Other certifications	CE, FCC, RoHS, UL listed
ELECTRICAL	
Power requirement	DC12V, PoE (IEEE 802.3af class 3). Adaptor not included.
Power consumption	DC12V: Max 11W PoE: Max 12.9W
MECHANICAL	
Material	Aluminum bullet housing
Dimensions	8.77" x 3.07" (223 x 78mm)
Weight	1.98 lbs (0.9kg)
Warranty	5 year warranty

NOTE:
1. External ONVIF devices cannot be added
2. IVA/IVA+ is not available on this model
3. Plugins from external devices cannot be added

Summary

MEGApiX® CaaS™ all-in-one series of IP cameras combine the cameras with the ease and power of DW Spectrum® IPVMS and on-board storage. DW Spectrum® IPVMS server is pre-installed and licensed. No additional server hardware is required.

The 4MP bullet camera offers a vari-focal p-iris lens with motorized zoom, in an IP66-rated bullet enclosure and will Cold Start at -40° F/-40° C. Combine the CaaS™ solution with the DW® Blackjack® NAS device for long-term storage needs.

Features

- All-in-one cameras, no server required
- 4MP 1/3" image sensor at real-time 30fps
- 2.8-12mm vari-focal p-iris lens with motorized zoom and auto-focus
- Built-in 256/128/64GB storage options for up to 30 days retained video
- Easily to deploy with pre-loaded DW Spectrum® IPVMS for out-of-the-box operation
- 24/7 access to live and recorded video feed
- Automatic installation and licensing with first power on
- Connect up to 30 MEGApiX® CaaS™ edge cameras
- True Wide Dynamic Range (WDR)
- Dual recording option with Blackjack® NAS appliance
- Dual codecs (H.264, MJPEG) with simultaneous dual-stream
- Cold start -40°F (-40°C)
- 120' Smart IR™ with intelligent camera sync
- Smart DNR™ 3D digital noise reduction
- True day/night with mechanical IR cut filter
- Programmable privacy zones
- Auto gain control (AGC)
- Auto white balance (AWB)
- Motion detection
- Two-way audio
- Alarm sensor input
- Relay output
- Web server built-in
- PoE class 3 and DC12V
- Waterproof cabling
- UL Listed
- ONVIF conformant, profile S
- IP66 environmental-rated dust-tight and water-resistant
- 5 year warranty



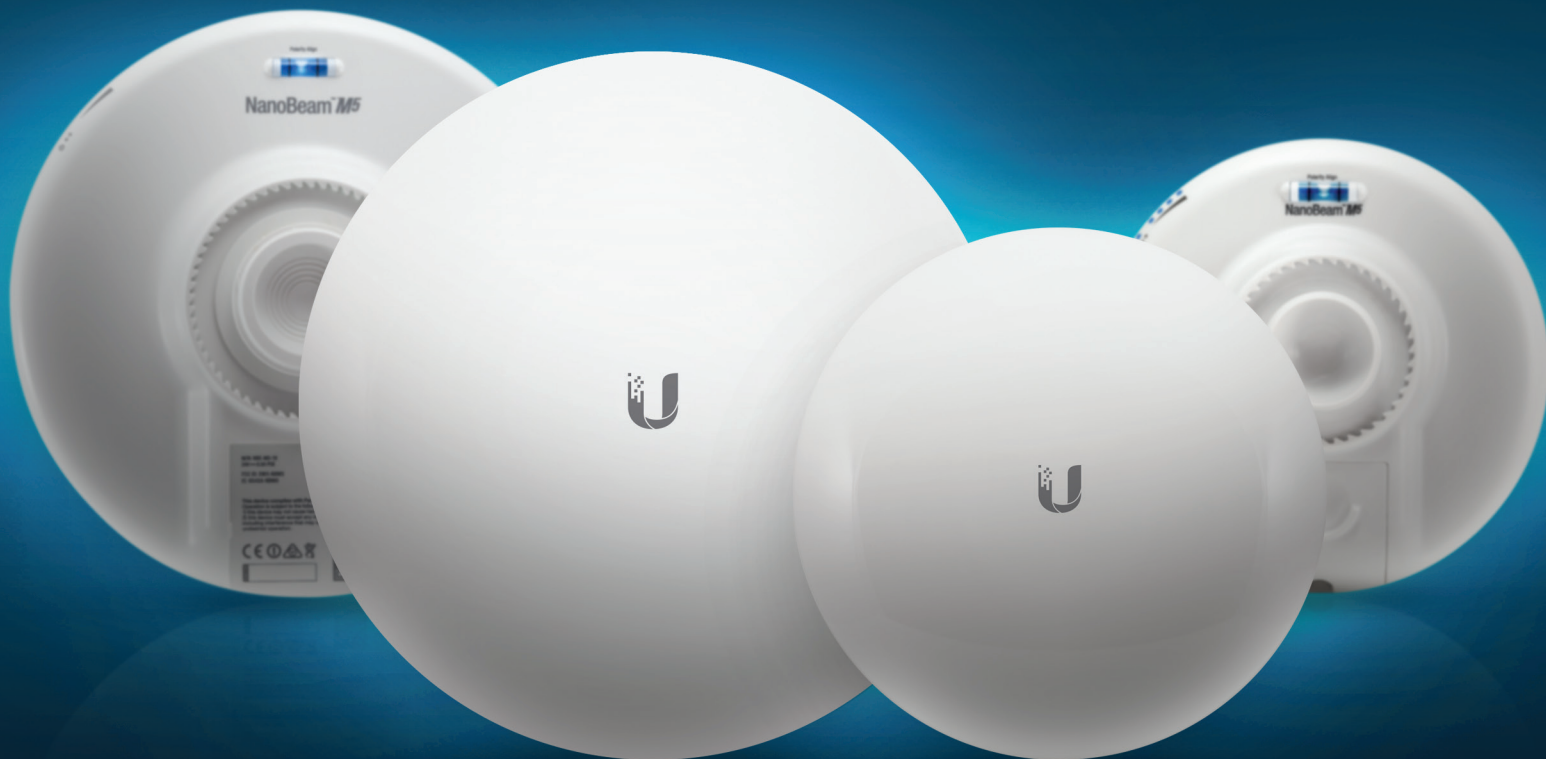
Accessories (Optional)



DWC-BLJUNC
Junction box



DWC-PMB-BU
Pole mount bracket



NanoBeam[®] M

High-Performance airMAX[®] Bridge

Models: NBE-M2-13, NBE-M5-16, NBE-M5-19

Uniform Beamwidth Maximizes Noise Immunity

Innovative Mechanical Design

High-Speed Processor for Superior Performance



Overview

Starting with the first-generation NanoBridge®, Ubiquiti Networks® pioneered the all-in-one design for an airMAX® product functioning as a CPE (Customer Premises Equipment). Now Ubiquiti Networks launches the latest generation of CPE, the NanoBeam®.

Improved Noise Immunity

Available for the 2.4 and 5 GHz frequency bands, the NanoBeam directs RF energy in a tighter beamwidth. With the focus in one direction, the NanoBeam blocks or spatially filters out noise, so noise immunity is improved. This feature is especially important in an area crowded with other RF signals of the same or similar frequency.

Integrated Design

The Ubiquiti Research and Development team combined the radio and antenna to create a more efficient and compact CPE. The NanoBeam gets maximum gain out of the smallest footprint.

Providing increased performance from its faster processor and innovative mechanical design at a low cost, the NanoBeam is extremely versatile and cost-effective to deploy.

airMAX Technology Included

Unlike standard Wi-Fi protocol, Ubiquiti's Time Division Multiple Access (TDMA) airMAX protocol allows each client to send and receive data using pre-designated time slots scheduled by an intelligent AP controller.

This time slot method eliminates hidden node collisions and maximizes airtime efficiency. It provides significant performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

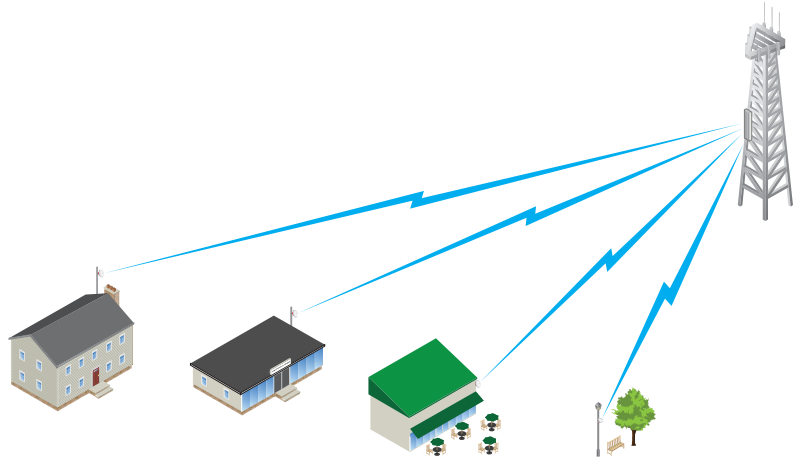
Intelligent QoS Priority is given to voice/video for seamless streaming.

Scalability High capacity and scalability.

Long Distance Capable of high-speed, carrier-class links.

Application Examples

PtMP Client Links



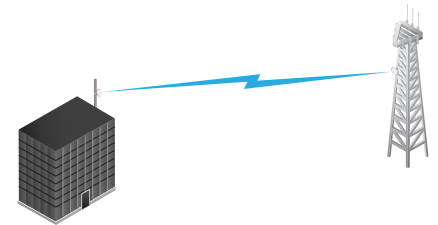
The NanoBeam used as a CPE device for each client in an airMAX PtMP network.

Wireless Client



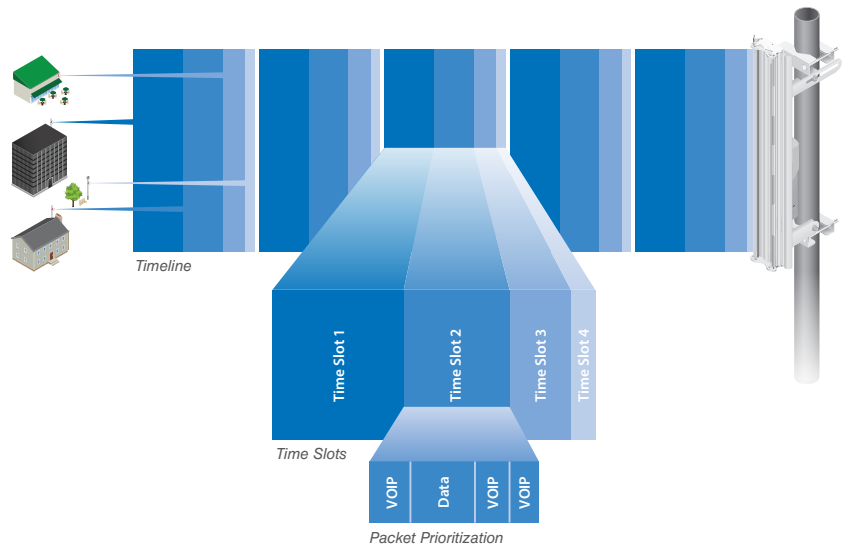
The NanoBeam as a powerful wireless client.

PtP Link



Use a NanoBeam on each side of a PtP link.

airMAX TDMA Technology



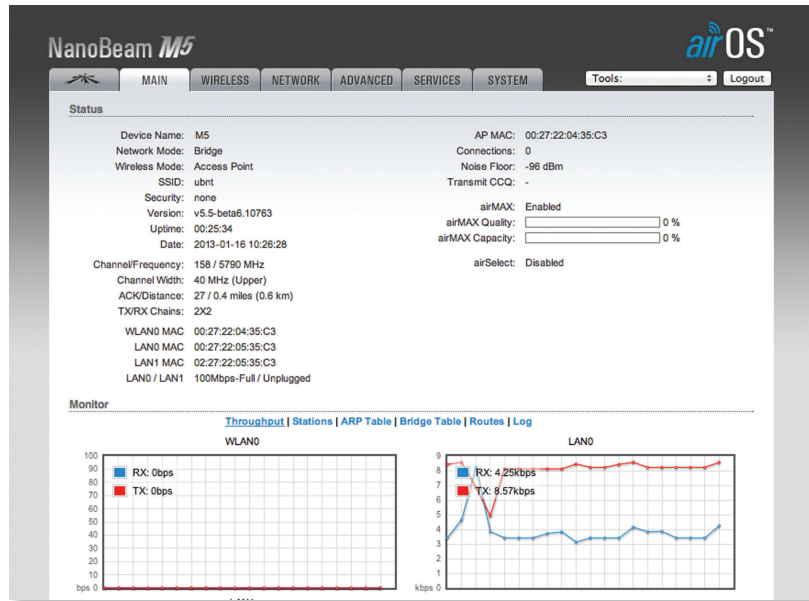
Up to 100 airMAX stations can be connected to an airMAX Sector; four airMAX stations are shown to illustrate the general concept.

Software

airOS®

airOS® is an intuitive, versatile, highly developed Ubiquiti firmware technology. It is exceptionally intuitive and was designed to require no training to operate. Behind the user interface is a powerful firmware architecture, which enables high-performance, outdoor multi-point networking.

- Protocol Support
- Ubiquiti Channelization
- Spectral Width Adjustment
- ACK Auto-Timing
- AAP Technology
- Multi-Language Support



airView®

Integrated on all Ubiquiti M products, airView® provides advanced spectrum analyzer functionality: waterfall, waveform, and real-time spectral views allow operators to identify noise signatures and plan their networks to minimize noise interference.

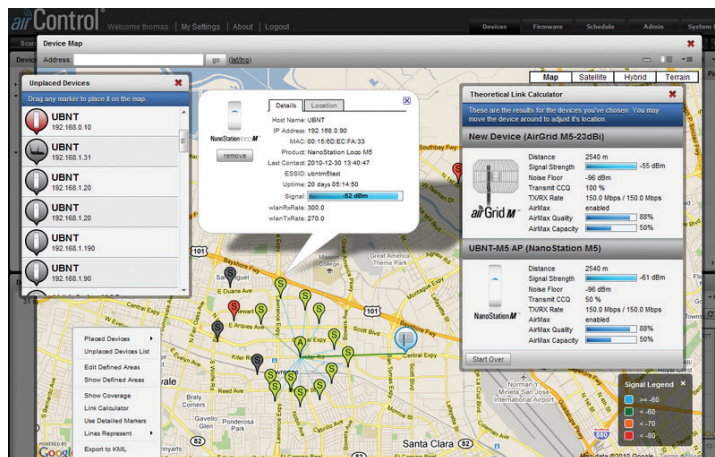
- **Waterfall** Aggregate energy over time for each frequency.
- **Waveform** Aggregate energy collected.
- **Real-time** Energy is shown in real time as a function of frequency.
- **Recording** Automate airView to record and report results.



airControl®

airControl® is a powerful and intuitive, web-based server network management application, which allows operators to centrally manage entire networks of Ubiquiti devices.

- Network Map
- Monitor Device Status
- Mass Firmware Upgrade
- Web UI Access
- Manage Groups of Devices
- Task Scheduling



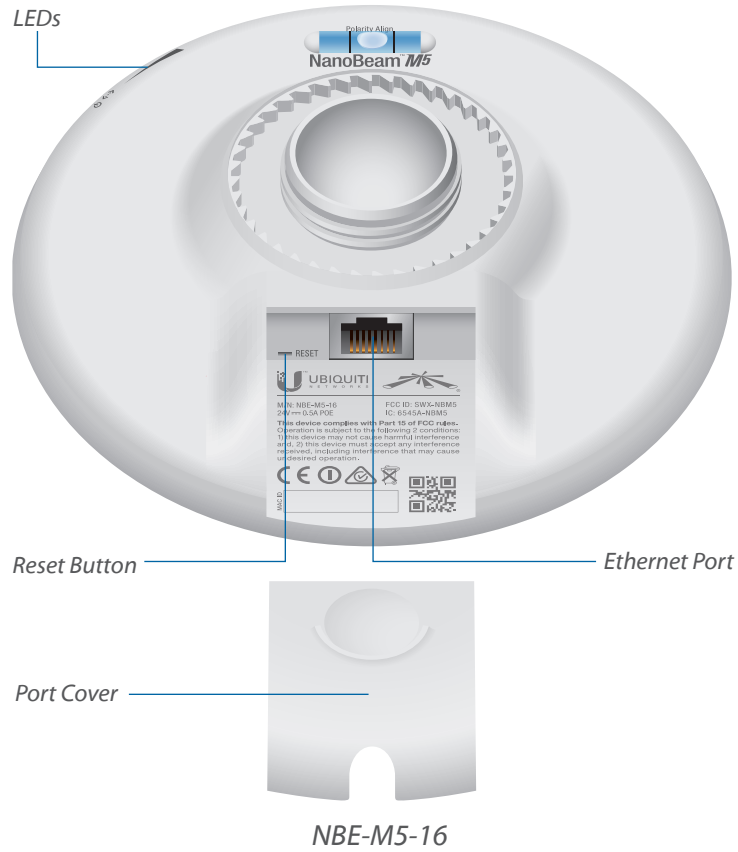
Hardware Overview

Innovative Mechanical Design

- **All-in-one design** The NanoBeam provides both the radio and antenna in the smallest possible footprint.
- **Quick and easy installation** No fasteners are required for pole-mounting, and a single wall fastener (not included) is required for wall-mounting.
- **Convenient alignment** The NanoBeam pivots on its ball joint for easy aiming.

Compact Form Factor

- **Efficient footprint** The radio and antenna are combined into a single body that takes up minimal space.
- **Versatile mounting** The NanoBeam can be mounted in almost any position needed for line of sight.
- **Aesthetics** The NanoBeam is small enough to blend discreetly into the background at a customer's location.



2.4 GHz Model



NanoBeam[®] M2

Model	Frequency	Gain
NBE-M2-13	2.4 GHz	13 dBi

5 GHz Models



NanoBeam® M5

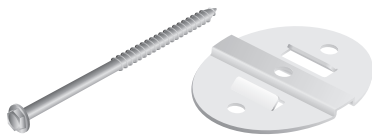
Model	Frequency	Gain
NBE-M5-19	5 GHz	19 dBi

Model	Frequency	Gain
NBE-M5-16	5 GHz	16 dBi



NanoBeam® M5

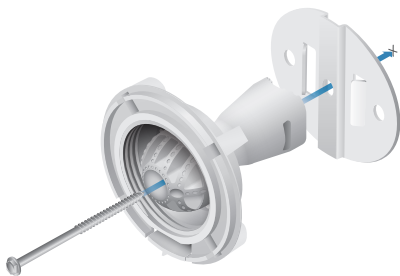
Model	Frequency	Gain
NBE-M5-19	5 GHz	19 dBi



NanoBeam® Wall Mount Kit

Model	NBE-M2-13	NBE-M5-19	NBE-M5-16
NBE-WMK	✓	✓	✓

A wall mount kit is available as an optional accessory to enhance stability for wall-mounting.



Installation Using the NanoBeam Wall Mount Kit

Specifications

System and Regulatory/Compliance			
Model	NBE-M2-13	NBE-M5-16	NBE-M5-19
Processor Specs	Atheros MIPS 74Kc, 560 MHz		
Memory	64 MB DDR2, 8 MB Flash		
Networking Interface	(1) 10/100 Ethernet Port		
Wireless Approvals	FCC, IC, CE		
RoHS Compliance	Yes		

Physical/Electrical/Environmental			
Model	NBE-M2-13	NBE-M5-16	NBE-M5-19
Dimensions	189 x 189 x 125 mm (7.44 x 7.44 x 4.92 in)	140 x 140 x 54 mm (5.51 x 5.51 x 2.13 in)	189 x 189 x 125 mm (7.44 x 7.44 x 4.92 in)
Weight	0.530 kg (1.17 lb)	0.320 kg (0.71 lb)	0.530 kg (1.17 lb)
Power Supply	24V, 0.5A PoE	24V, 0.5A PoE	24V, 0.5A PoE
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)	Passive PoE (Pairs 4, 5+; 7, 8 Return)	Passive PoE (Pairs 4, 5+; 7, 8 Return)
Max. Power Consumption	6W	6W	8W
Gain	13 dBi	16 dBi	19 dBi
Wind Loading	45.4 N @ 200 km/h (10.2 lbf @ 125 mph)	21.4 N @ 200 km/h (4.8 lbf @ 125 mph)	45.4 N @ 200 km/h (10.2 lbf @ 125 mph)
Wind Survivability	200 km/h (125 mph)		
LEDs	(1) Power, (1) LAN, (4) WLAN		
Signal Strength LEDs	Software-Adjustable to Correspond to Custom RSSI Levels		
Channel Sizes	5/8/10/20/30/40 MHz		
Polarization	Dual Linear		
Enclosure	Outdoor UV Stabilized Plastic		
Mounting	Pole-Mount (Kit Included), Wall-Mount		
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV		
Operating Temperature	-40 to 80° C (-40 to 176° F)	-40 to 70° C (-40 to 158° F)	
Operating Humidity	5 to 95% Noncondensing		
Salt Fog Test	IEC 68-2-11 (ASTM B117), Equivalent: MIL-STD-810 G Method 509.5		
Vibration Test	IEC 68-2-6		
Temperature Shock Test	IEC 68-2-14		
UV Test	IEC 68-2-5 at 40° C (104° F), Equivalent: ETS 300 019-1-4		
Wind-Driven Rain Test	ETS 300 019-1-4, Equivalent: MIL-STD-810 G Method 506.5		

Operating Frequency			
Model	NBE-M2-13	NBE-M5-16	NBE-M5-19
Operating Frequency	2405 - 2475 MHz	Worldwide: 5170 - 5875 MHz USA: 5725 - 5850 MHz	

Specifications

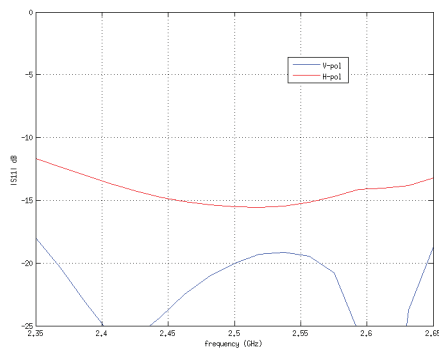
NBE-M2-13 Output Power: 28 dBm

TX Power Specifications				RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
802.11g	1 - 24 Mbps	28 dBm	± 2 dB	802.11g	1 - 24 Mbps	-94 dBm Min.	± 2 dB
	36 Mbps	26 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
	48 Mbps	25 dBm	± 2 dB		48 Mbps	-77 dBm	± 2 dB
	54 Mbps	24 dBm	± 2 dB		54 Mbps	-75 dBm	± 2 dB
802.11n/airMAX	MCS0	28 dBm	± 2 dB	802.11n/airMAX	MCS0	-96 dBm	± 2 dB
	MCS1	28 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	27 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	26 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	25 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	24 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	23 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	22 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	28 dBm	± 2 dB		MCS8	-96 dBm	± 2 dB
	MCS9	28 dBm	± 2 dB		MCS9	-95 dBm	± 2 dB
	MCS10	27 dBm	± 2 dB		MCS10	-92 dBm	± 2 dB
	MCS11	26 dBm	± 2 dB		MCS11	-90 dBm	± 2 dB
	MCS12	25 dBm	± 2 dB		MCS12	-86 dBm	± 2 dB
	MCS13	24 dBm	± 2 dB		MCS13	-83 dBm	± 2 dB
	MCS14	23 dBm	± 2 dB		MCS14	-77 dBm	± 2 dB
MCS15	22 dBm	± 2 dB	MCS15	-74 dBm	± 2 dB		

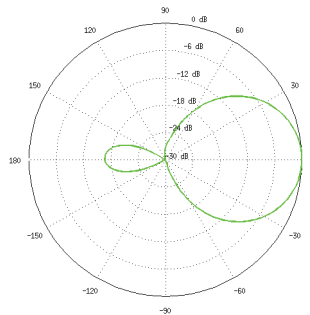
NBE-M2-13 Antenna Information

Gain	13 dBi
Max. VSWR	1.7:1

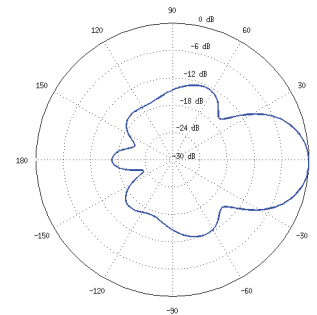
Return Loss



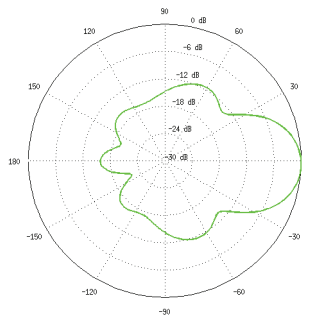
Vertical Azimuth



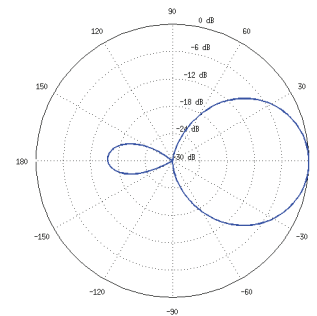
Vertical Elevation



Horizontal Azimuth



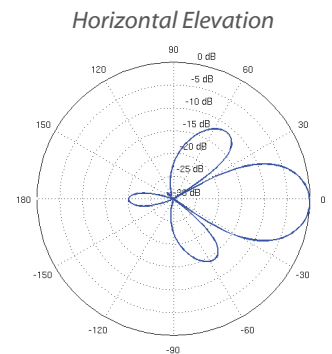
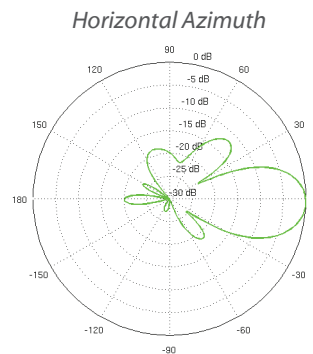
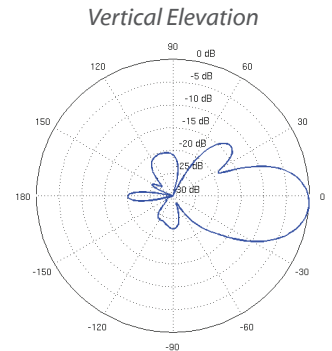
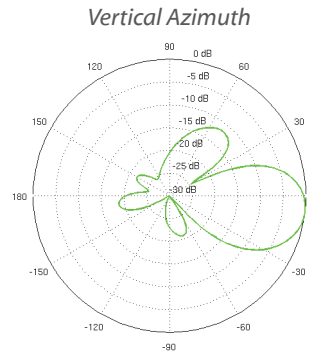
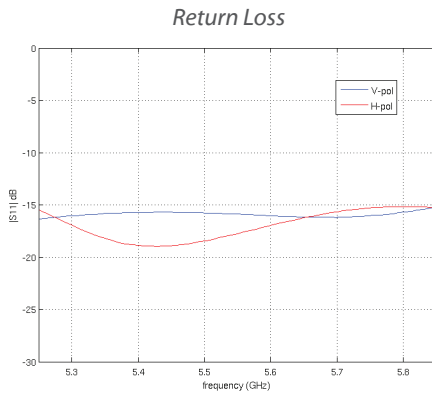
Horizontal Elevation



Specifications

NBE-M5-16 Output Power: 26 dBm							
TX Power Specifications				RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
802.11a	6 - 24 Mbps	26 dBm	± 2 dB	802.11a	6 - 24 Mbps	-94 dBm Min.	± 2 dB
	36 Mbps	25 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
	48 Mbps	24 dBm	± 2 dB		48 Mbps	-77 dBm	± 2 dB
	54 Mbps	23 dBm	± 2 dB		54 Mbps	-75 dBm	± 2 dB
802.11n/airMAX	MCS0	26 dBm	± 2 dB	802.11n/airMAX	MCS0	-96 dBm	± 2 dB
	MCS1	25 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	25 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	25 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	24 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	23 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	23 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	23 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	26 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
	MCS9	25 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
	MCS10	25 dBm	± 2 dB		MCS10	-90 dBm	± 2 dB
	MCS11	25 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	24 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	23 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	23 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
MCS15	23 dBm	± 2 dB	MCS15	-75 dBm	± 2 dB		

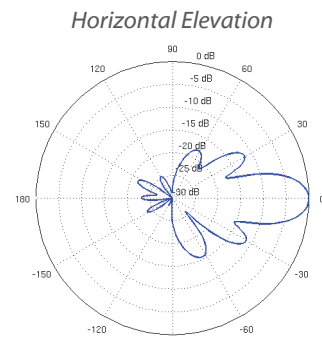
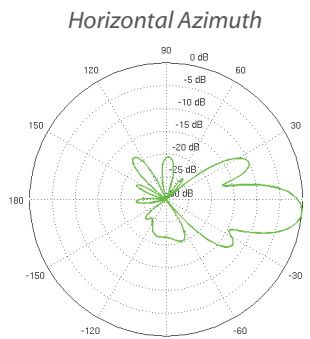
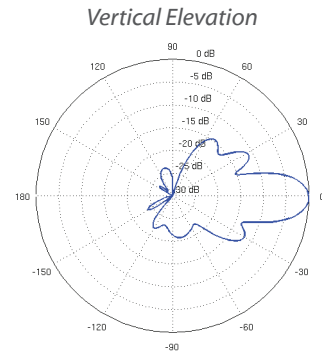
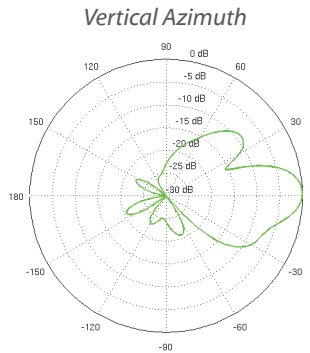
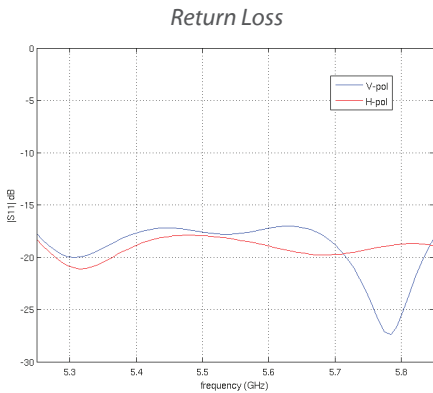
NBE-M5-16 Antenna Information	
Gain	16 dBi
Max. VSWR	1.5:1



Specifications

NBE-M5-19 Output Power: 26 dBm							
TX Power Specifications				RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
802.11a	6 - 24 Mbps	26 dBm	± 2 dB	802.11a	6 - 24 Mbps	-94 dBm Min.	± 2 dB
	36 Mbps	25 dBm	± 2 dB		36 Mbps	-80 dBm	± 2 dB
	48 Mbps	24 dBm	± 2 dB		48 Mbps	-77 dBm	± 2 dB
	54 Mbps	23 dBm	± 2 dB		54 Mbps	-75 dBm	± 2 dB
802.11n/airMAX	MCS0	26 dBm	± 2 dB	802.11n/airMAX	MCS0	-96 dBm	± 2 dB
	MCS1	25 dBm	± 2 dB		MCS1	-95 dBm	± 2 dB
	MCS2	25 dBm	± 2 dB		MCS2	-92 dBm	± 2 dB
	MCS3	25 dBm	± 2 dB		MCS3	-90 dBm	± 2 dB
	MCS4	24 dBm	± 2 dB		MCS4	-86 dBm	± 2 dB
	MCS5	23 dBm	± 2 dB		MCS5	-83 dBm	± 2 dB
	MCS6	23 dBm	± 2 dB		MCS6	-77 dBm	± 2 dB
	MCS7	23 dBm	± 2 dB		MCS7	-74 dBm	± 2 dB
	MCS8	26 dBm	± 2 dB		MCS8	-95 dBm	± 2 dB
	MCS9	25 dBm	± 2 dB		MCS9	-93 dBm	± 2 dB
	MCS10	25 dBm	± 2 dB		MCS10	-90 dBm	± 2 dB
	MCS11	25 dBm	± 2 dB		MCS11	-87 dBm	± 2 dB
	MCS12	24 dBm	± 2 dB		MCS12	-84 dBm	± 2 dB
	MCS13	23 dBm	± 2 dB		MCS13	-79 dBm	± 2 dB
	MCS14	23 dBm	± 2 dB		MCS14	-78 dBm	± 2 dB
MCS15	23 dBm	± 2 dB	MCS15	-75 dBm	± 2 dB		

NBE-M5-19 Antenna Information	
Gain	19 dBi
Max. VSWR	1.5:1



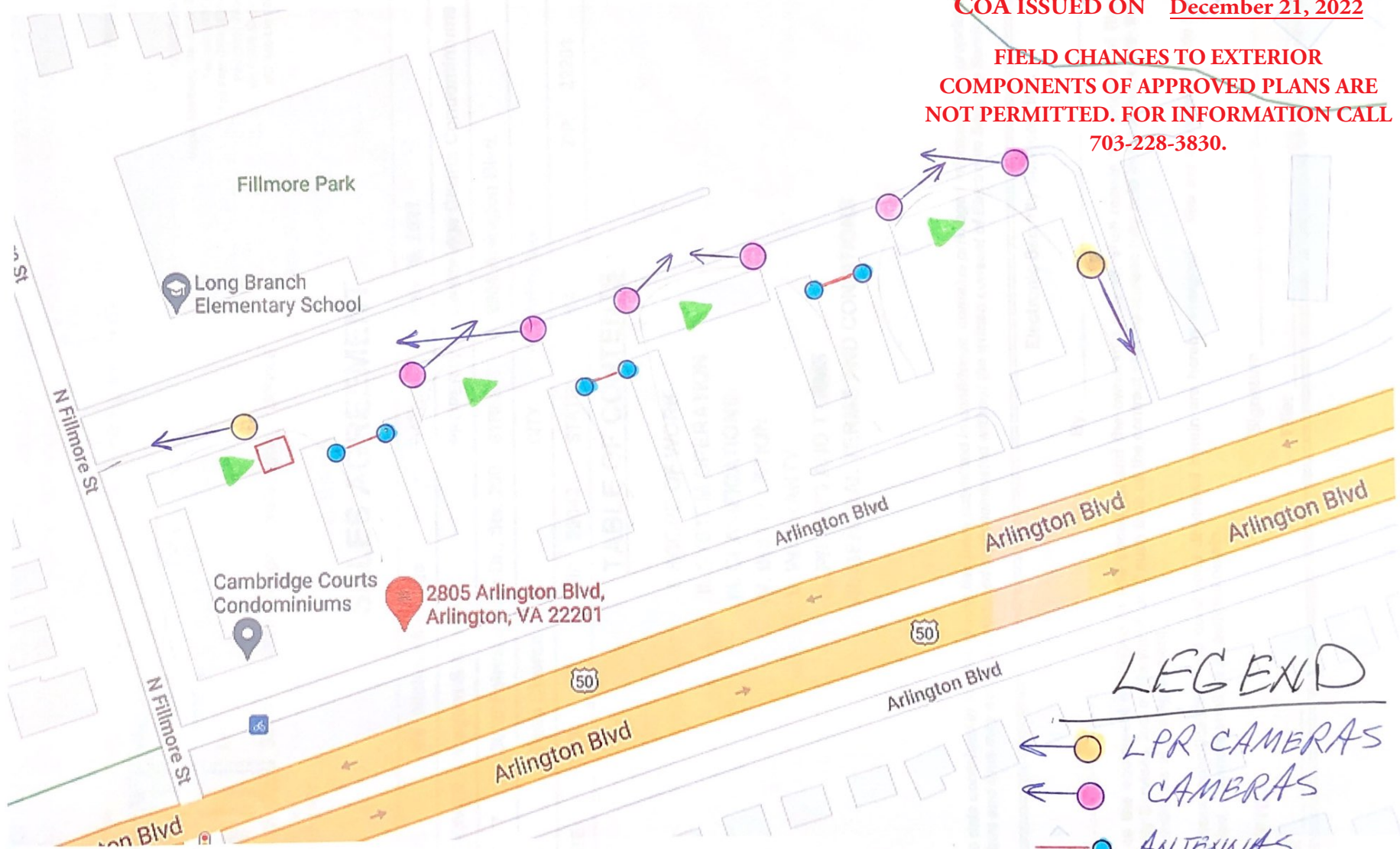
Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: www.ubnt.com/support/warranty
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Previously approved set

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LEGEND

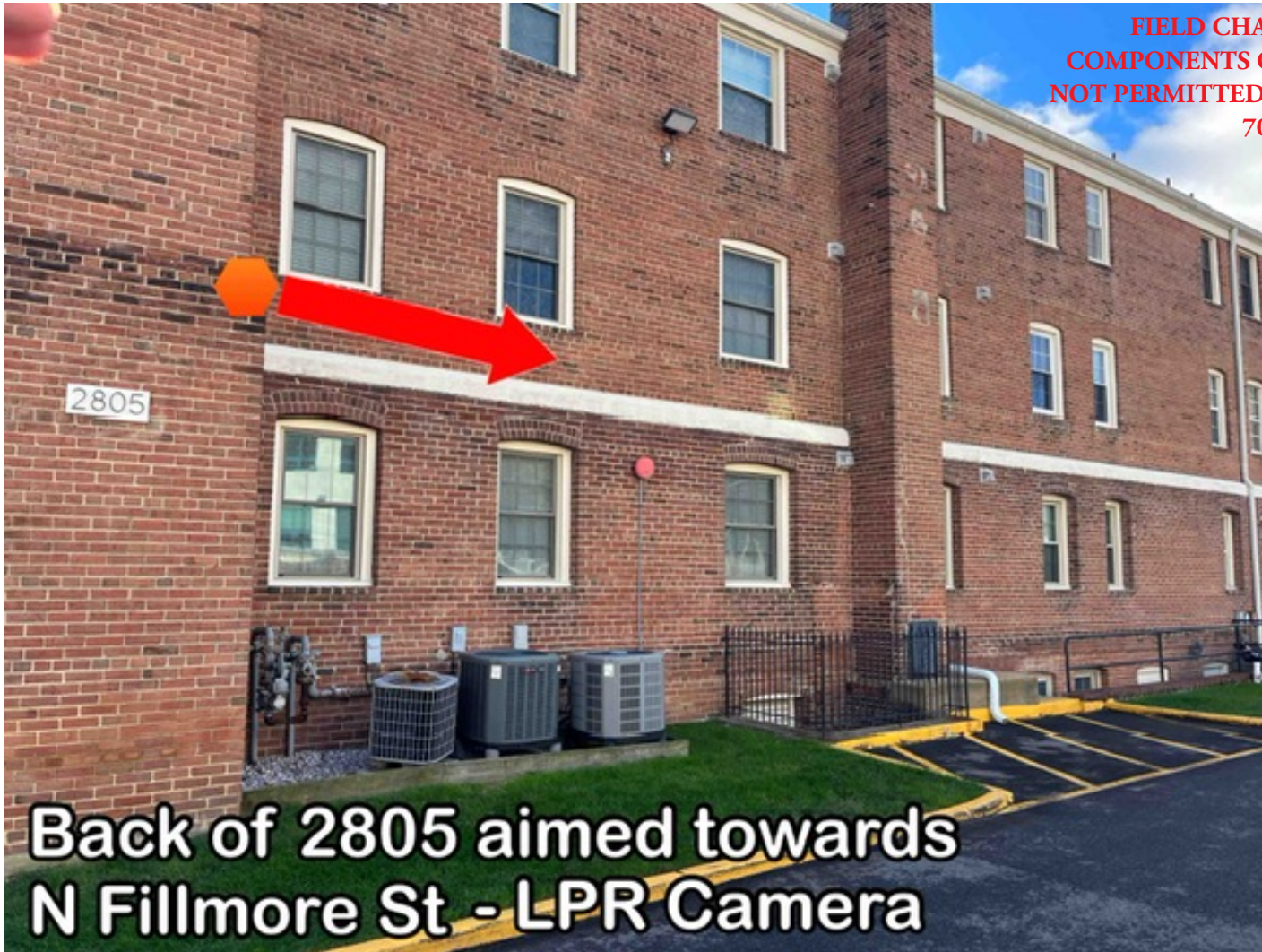
- ← ● LPR CAMERAS
- ← ● CAMERAS
- ● ANTENNAS
- VIDEO RECORDER
- ▶ NETWORK SWITCHES

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**Back of 2803
antenna mounted**

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**Back side of 2711 -
Antenna mounted**

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**Back side of 2709 -
Camera mounted aimed
away from N Fillmore St**

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COA ISSUED ON December 21, 202

**FIELD CHANGES TO EXTERIOR
COMPONENTS OF APPROVED PLANS A
NOT PERMITTED. FOR INFORMATION C**

703-228-3830.



**Back side of 2707 -
Camera mounted aimed
towards N Fillmore St**

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**Back side of 2705 -
Antenna mounted**

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**Back side of 2609 -
Antenna mounted**

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**Back side of 2607 -
Camera mounted aimed
away from N Fillmore St**

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COMPONENTS OF APPROVED PLANS
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703-228-3830.



**Back side of 2605 -
Camera mounted aimed
towards N Fillmore St**

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COMPONENTS OF APPROVED PLAN
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**Back side of 2603 -
Antenna mounted**

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**Back side of 2511 -
Antenna mounted**

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**Back side of 2509 -
Camera mounted aimed
away from N Fillmore St**

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COMPONENTS OF APPROVED PLANS
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**Back side of 2507 -
Camera mounted aimed
towards N Fillmore St**

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**Back side of 2505 -
LPR Camera mounted aimed
towards Arlington Boulevard**

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703-228-3830.**

VIGILANT FLEX SERIES



Powered by MStar™ chipsets that meet federal government technical requirements

HALRB APPROVED

COA ISSUED ON December 21, 2022

ALIBI VIGILANT FLEX SERIES 4MP STARLIGHT IP VANDAL-RESISTANT DOME CAMERA

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Key Specifications:

- + 4MP IP dome camera
- + 2.8mm fixed lens
- + 101.1 degrees Field of View
- + 98 feet Smart IR Distance
- + Starlight chipset for color in low light
- + MicroSD card slot
 - up to 256GB
- + 0.003 low-light Lux rating
- + 120dB True WDR
- + ANR,NAS(NFS) Network Storage
- + IK10 vandal-resistant
- + IP67 rating - withstands temps from -22 degrees to 140 degrees Fahrenheit
- + NDAA compliant
- + **Multi-megapixel resolution** - Get more detail from your video camera. This camera captures multi-megapixel resolution video footage that delivers crisp, precise detail and clarity for your video security needs.
- + **IK10 vandal-resistant** - durable design for around-the-clock surveillance. Built for high resistance to impact, the metal encased design of this vandal dome camera is unmatched by anything on the market -making it a safe and secure camera for years to come.
- + **Smart IR** - Night vision that goes the distance. Smart IR technology offers several advantages over standard IR for flawless night vision, including:
 - Clearer, brighter images in low light and at night
 - Reduces overexposure of the IR LEDs at the center of the image
 - Increases illuminant efficiency up to 30%
 - Produces LED light in rectangle form to better fit screen size
 - Captures images up to 98 feet in the dark without washing out the subject at closer ranges
 - Reduces video noise for a clearer nighttime picture, and reduces bandwidth consumption and video storage requirements
- + **Ultra 265 Compression** - reduce bandwidth and storage requirements. With Ultra 265 compression technology, you can store more information using less hard drive space. Ultra 265 also helps you minimize bandwidth requirements for high-resolution video and makes the remote viewing less demanding on the recorder.

SPECIFICATIONS

CAMERA

Sensor	1/3", 4.0 megapixel, progressive scan, CMOS
Lens	2.8mm@F1.6
Angle of view (H)	101.1°
Angle of View (V)	55.3°
Angle of View (O)	111.1°
Adjustment angle	Pan: 3° ~ 360° Tilt: 0° ~ 68° Rotate: 3° ~ 360°
Shutter	Auto/Manual, 1 - 1/100000s
Minimum Illumination	Support Easystar: Colour: 0.003Lux (F1.6, AGC ON)
OLux with IR	IR-cut filter with auto switch (ICR)
Day/Night	IR-cut filter with auto switch (ICR)
Digital noise reduction	2D/3D DNR
S/N	>56dB
IR Range	Up to 30m (98ft) IR range
Wavelength	850nm
IR On/Off Control	Auto/Manual
Defog	Digital Defog
WDR	120dB

VIDEO

Video Compression	Ultra 265, H.265, H.264, MJPEG
H.264 code profile	Baseline profile, Main profile, High profile
Frame Rate	Main Stream: 4MP (2688*1520), Max 30fps; 4MP (2560*1440), Max 30fps; 3MP (2304*1296), Max 30fps; 2MP (1920*1080), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360, Max 30fps; 2CIF(704*288), Max 30fps; CIF(352*288), Max 30fps;
Video Bit Rate	128 Kbps-16 Mbps
9:16 Corridor Mode	Supported
OSD	Up to 4 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Motion Detection	Up to 4 areas

IMAGE

White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Digital noise reduction	2D/3D DNR
Smart IR	Supported
Flip	Normal/Vertical/Horizontal/180°/90°Clockwise/90°Anti-clockwise
Dewarping	N/A
HLC	Supported
BLC	Supported

NETWORK

Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL, 802.1x, SNMP
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API
Client	Alibi Vigilant CMS Alibi Vigilant Toolbox Alibi Vigilant Mobile
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below Plug-in free live view: Chrome 57.0+, Firefox 58.0+, Edge 16+, Safari 11+

STORAGE

Edge Storage	Micro SD, up to 256 GB
Network Storage	ANR,NAS(NFS)

INTERFACE

Network	10/100M Base-TX Ethernet
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CERTIFICATIONS

Certifications	CE: EN 60950-1 UL: UL60950-1 FCC: FCC Part 15
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GENERAL

Power	DC 12V±25%, PoE (IEEE 802.3af) Power consumption: Max5.5W
Dimensions (Ø x H)	109 Dia x 81mm (4.3" Dia x 3.2")
Net Weight	0.35kg (0.77lb)
Material	Metal + Plastic
Working Environment	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)
Storage Environment	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)
Surge Protection	4KV
Ingress Protection	IP67
Vandal Resistant	IK10
Reset Button	N/A

BRACKETS



ALI-A01-IN



ALI-CM24-IN



ALI-JB03-G-IN



ALI-JB07/WM03-G-IN



ALI-SE45-A-IN



ALI-SE24-IN



ALI-UM06-E-IN

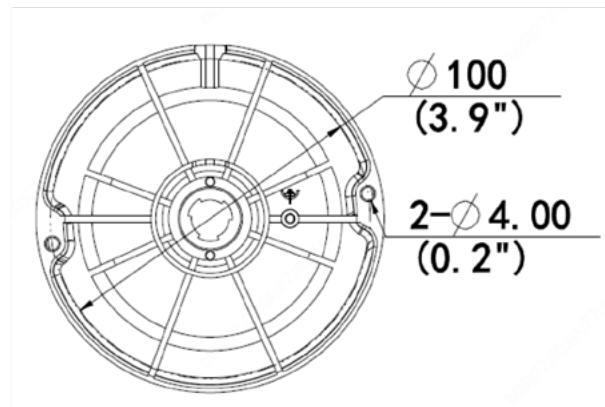
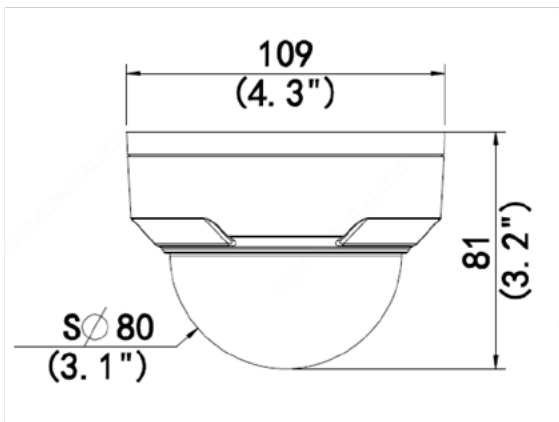


ALI-UP06-IN



ALI-WM03-D-IN


DIMENSIONS



I. SCOPE OF WORK - ESSI will provide and install the following video equipment:

- A.** Two (2) Alibi Video day/night digital color four-megapixel network License Plate Recognition (LPR) cameras, with variable focal lenses, built-in infrared illuminators. They will be set up to view and record activity at the following building locations:
 - 1. N Fillmore Street entrance to rear lot near Building 2807
 - 2. Arlington Boulevard entrance to rear lot near Building 2503
- B.** Six (6) Alibi Video day/night digital color five-megapixel cameras with vandal resistant mini-dome housings, wide angle fixed lenses and built-in infrared illuminators. They will be set up to view and record activity at the following building locations:
 - 1. Building 2709, two (2) cameras on each corner, providing crisscrossing views of the rear parking area and the dumpster corrals.
 - 2. Building 2611, two (2) cameras on each corner, providing crisscrossing views of the rear parking area and the dumpster corrals.
 - 3. Building 2509, two (2) cameras on each corner, providing crisscrossing views of the rear parking area and the dumpster corrals.
- C.** One (1) Alibi Video 32-channel Network Video Recorder (NVR) with an eight terabyte hard drive, rack mounted in the lower level meeting room area.
- D.** One (1) Uninterruptible Power Supply (UPS) installed near the NVR, as protection from electrical spikes and power drops.
- E.** Four (4) network switches with Power over Ethernet (PoE). Cameras will be wired to the switches using a single Cat6 wire. Switches to be wall mounted in enclosures in the electrical rooms of the following buildings:
 - 1. 2807 (meeting room area)
 - 2. 2709 storage area
 - 3. 2611 storage area
 - 4. 2509 storage area
- F.** Six (6) wireless transmission RF line-of-sight antennas, used to send the video data between buildings, in lieu of digging trenches and burying wire. Antennas will be wired to the network switches. See the attached device location sketch for the antenna layout and design.
- G.** All necessary labor and wire to install and program is included.
- H.** All necessary conduit to protect exterior wiring is included.
- I.** On-site system operation training following installation. Additional training and technical support will be provided at no charge when needed, throughout the term of the warranty and any subsequent service plan.

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II. SYSTEM OPERATION:

Cameras and Lenses

The cameras and lenses designed for your application are specified by ESSI based on changing light conditions, climate changes, and your field of view requirements. Based on this, ESSI recommends Alibi Video four-megapixel color network cameras. The cameras have built-in digital infrared illuminators, which help the cameras see images even in low light, and Wide Dynamic Range, compensating for severe backlight. The result is very sharp images with high clarity for the end-user.

Network Video Recorder

Your 32-channel Network Video Recorder (NVR) will provide the capability of recording all cameras within the system. Camera configuration will be based on consultation with management. Each camera will be set up to record constantly at a low frame rate, then automatically increase the frame rate when motion is detected within the field of view of that specific camera, saving unnecessarily used memory. The proposed hard drive should provide about 30 days of recorded images, depending on the activity and settings. Previously recorded events can be easily searched, and copied to an external storage device. Cameras can also be viewed or reviewed remotely from office PC's, laptops, or smartphones on the free Alibi Video app for Androids, iPads, iPhones, etc. The system will require a high-speed Internet connection at the NVR locations (provided by others) for remote access to the video security software.

III. CLARIFICATIONS:

- A. OPERATION: The Customer shall be responsible to periodically evaluate the system to ensure satisfactory operation.
- B. REPAIRS: The Customer shall be responsible for patching and/or repair/painting of holes exposed during installation.
- C. TRAINING: System training is complimentary as often as required throughout the term of the warranty and any subsequent service plan.
- D. INSTALLATION SPACE: The Customer shall provide adequate space for the installation of the control equipment. The space must have an operating environment suitable for the specified equipment.
- E. LIGHTING: The Customer shall be responsible for providing suitable white lighting to optimize system performance.

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- F. WIRELESS:** ESSI assumes no liability for wireless interference or obstructions that may be present at the site during the time of the installation. Any interference or obstructions that adversely affect system operation will be reported to the property manager upon discovery and alternative methods of transmission will be discussed. Changes to the system design as outlined in the scope of work due to interference or obstruction of wireless transmission will result in an above contract cost change order.
- G. PARKING:** The Customer shall be responsible for providing ESSI parking at the facility for the duration of the project.
- H. INTERNET:** The customer will be responsible for having its Internet provider install a high-speed Internet line at the location of the DVR in order to utilize the remote video management software tools.
- I. PERMITS:** The Customer will be responsible for all direct and indirect costs of obtaining permits (if required), including: Permit cost, ESSI engineered drawings and labor, Master electrician costs, travel time to Permit Office, and any on-site inspection time with the Authority Having Jurisdiction (AHJ).

IV. INSTALLATION:

- A.** The work includes all necessary cable, wiring, connectors, terminal strips, batteries, transformers, terminations, and testing required to provide a complete professional operating system.
- B.** A Certificate of Insurance of Workmen's Compensation shall be provided upon request.
- C.** All work, under this proposal includes techniques, sequences, procedures, and means for coordination of the work.
- D.** All work to be supervised and tested by the Installation Manager or other equally qualified ESSI personnel.

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V. WARRANTY

- A.** Electronic Security Services, Inc. (ESSI) guarantees that all supplied materials and workmanship will be serviceable and will perform dependably for a period of one year (ninety days for lock and door hardware). The warranty period shall commence when the customer has beneficial use of the system, or upon installation acceptance, whichever occurs first.
- B.** ESSI will be responsible for maintaining all supplied equipment in good, efficient operating condition and will supply all labor and parts necessary to repair the systems. The Customer shall be responsible to periodically evaluate the system to ensure satisfactory operation.
- C.** ESSI reserves the right to invoice for parts and labor necessitated due to external intervening causes such as vandalism, unauthorized service, acts of God, etc.
- D.** Equipment outages should be reported by an on-site manager or authorized representative. ESSI will respond to all requests for service on a priority basis, at no additional charge, Monday through Friday during normal business hours. When notification is received before 10 A.M., ESSI will dispatch one or more technicians to arrive at the equipment location before the close of the business day. When notification is received after 10 A.M., technicians will be dispatched before the close of business on the next business day. Service after normal business hours and on weekends is available at a premium rate.
- E.** Equipment will be serviced and returned to full operation on the day serviced whenever possible. In the event the equipment cannot be repaired in that time frame, ESSI will notify the on-site manager or representative. ESSI service technicians will report to the on-site manager or representative and sign in, if required, prior to starting any work. Each ESSI service call is recorded on an ESSI form, a copy of which will be furnished to the on-site manager upon job completion.

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VI. PRICING AND TERMS:

Forty percent (40%) of the contract cost will be invoiced upon acceptance of the agreement.
The balance is due in upon project completion and installation acceptance.

Total Investment: Twenty-Three Thousand Three Hundred Sixty-Eight Dollars
(\$23,368.00)

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VII. GENERAL TERMS AND CONDITIONS:

- A. It is understood that ESSI is not an insurer and that insurance, if any, shall be obtained by the customer and that amounts payable to ESSI hereunder are based upon the value of the services, and the scope of liability as herein set forth are unrelated to the value of the customer's property or others located in the customer's premises. ESSI makes no guarantee or warranty, including implied warranty of merchandise or fitness, that the system or services supplied, will avert or prevent occurrences or the consequences therefrom, which the system or service is designed to detect. It is impractical and extremely difficult to fix the actual damages, if any, which may proximately result from failure on the part of ESSI to perform any of its obligations hereunder. The customer does not desire this contract to provide for full liability of ESSI, and agrees that ESSI shall be exempt from loss or damage due directly or indirectly to occurrences, or consequences therefrom, which the service or system is designed to detect or avert; that if ESSI should be found liable for loss or damage due to a failure of service or equipment in any respect, its liability shall be limited to \$100.00, as liquidated damages and not as a penalty, as the exclusive remedy, and that the provisions of this paragraph shall apply if loss or damage, irrespective of cause or origin, results directly or indirectly to person or property from performance or nonperformance of obligations imposed by this contract or from negligence, active or otherwise, of ESSI, its agents or employees. If the customer desires insurance to cover any liability over and above this, it shall be the obligation of the customer to obtain such insurance at its own expense.
- B. LATE PAYMENT CHARGES: Payments not received within ten (10) days of the due date will incur a service charge of ten dollars (\$10.00) per month or three percent (3%) per month, whichever is greater.
- C. COLLECTION: The Buyer shall pay ESSI all costs and expenses including any attorney's fees or collection agency fees and court costs whether this Agreement is placed in the hands of either for collection, or if such costs or expenses are incurred by ESSI in exercising any of its rights hereunder.
- D. DEFAULT: If the Buyer fails to pay any installment payment or any other amounts herein provided within ten (10) days after the same is due and payable, or if the Buyer fails to perform any other provision hereof within ten (10) days after ESSI shall have demanded payment in writing performance thereof, or if any proceeding in bankruptcy, receivership or insolvency shall be commenced by or against the Buyer or its property, or if the Buyer makes any assignment for the benefit of its creditors, or if a meeting of creditors is called by the Buyer to discuss its financial obligations, or if judicial liens have been secured against the Buyer and/or its property and not released within a period of fifteen (15) days, or if ESSI shall reasonably feel that the Buyer is no longer financially responsible, ESSI shall have the right but not the obligation to exercise any one or more of the following remedies:
1. To accelerate the terms of this Agreement and declare the full amount of the Agreement immediately due and payable.
 2. To take possession of any or all of the equipment, wherever it may be located without demand or notice, without any court order or other process of law, and without incurring any liability for any damages occasioned by such taking of possession.
 3. To sell any or all of the equipment at public or private sale for cash or on credit and to recover from the Buyer all costs of taking possession, storing, repairing, and selling equipment.
 4. In addition, the Buyer shall pay ESSI all costs and expenses including any attorney's fees if this Agreement is placed in the hands of an attorney for collection, in exercising any of its rights hereunder.
 5. ESSI reserves the right to place mechanics liens as provided by law in the jurisdiction where the property is, or may be, located.
- E. The Buyer hereby acknowledges that he/she has been advised that there are other types of security systems supplied by ESSI that may be more thorough and advantageous, desirable or serviceable, and the Buyer agrees that he/she has selected and hereby approves the system described in this document.
- F. The Customer shall be responsible to periodically evaluate the system to ensure satisfactory operation.
- G. All prices are firm for 45 days from the date of this proposal.

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