Invitation for Proposals

The Barbour County Commission will accept proposals for security camera upgrades at the Barbour County Courthouse. This project includes the upgrade of sixteen existing cameras and an additional six new cameras including three interior, one elevator camera and two outdoor cameras. The vendor must supply all materials, cabling, and labor in their proposal.

All proposals must be sent to the Barbour County Commission at 26 North Main, Philippi, WV 26416 or to sfrey@barbourcountywv.org. Deadline to accept proposals will be January 25, 2021 at 4:30 pm. (EXTENDED TO FEBRUARY 10, 2021 AT 4:30PM. The Full bid package is posted at https://barbourcountywv.org/document-center/ under 'Request for Proposals'. For inquiries or questions, please contact County Administrator, Shana Frey at Barbour County Commission, 26 North Main, Philippi, WV 26416, 304-457-0025, or sfrey@barbourcountywv.org.

The vendor must confirm that they are an equal opportunity employer and it does not discriminate against any employee or applicant for employment because of race, color, age, sex, religion, nation origin or physical handicap. Contractor must show proof of license with all applicable federal, state and local licensing. The County Commission reserves the right to reject and and/or all bids. The County Commission was awarded a grant though the State of WV Court Security Fund for security camera upgrades.

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Scope of Work

Provide and install the following security cameras at the Barbour County Courthouse.

Qty 19- Indoor Dome High Resolution Camera
Qty 1- Elevator Camera
Qty 2- Outdoor Bullet High Resolution Cameras
Qty 29- Camera Licenses
Qty 3- POE Network Switches
Qty 7- 12 TB Hard Drives

Proposals shall include all labor and materials, including cabling.

Specifications

Camera Specs are included in Appendix A.

Facility layout upon request

Appendix A

AVC-VHN41AVLT/V2
4MP H.265 IR OUTDOOR DOME CAMERA
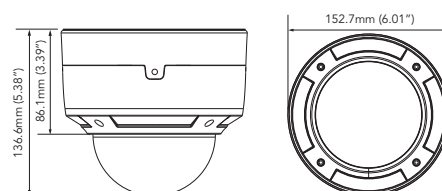
4MP H.265 IR OUTDOOR DOME CAMERA

The AVC-VHN41AVLT/V2 is our 4MP H.265 IR Outdoor Dome Camera with a 2.8 ~ 12mm motorized auto-focus lens and featuring our newest generation of video analytics. This camera supports True Day/Night mode, True WDR capabilities and also includes a microSD memory card slot for standalone recording applications. The AVC-VHN41AVLT/V2 can be powered by both PoE(802.3af) and DC12V and also includes a hardware reset button. Integrated Video Analytics include Missing/Abandoned Objects, Line Crossing, Heat Map, Vehicle/People Counting and Facial Detection.

FUNCTIONS

- H.265 Main Profile Video Compression Technology
- 4MP (2592 x 1520) H.265 Full Real Time Coding
- Max. Resolution: 2592 x 1520
- ICR Auto Switch
- True Day / Night
- Up to 100ft. Night Time Viewing Distance
- 3D DNR, Digital WDR
- Support Auto Zoom and Manual Zoom
- ROI Coding
- Support Local CVBS Video Output and Two Way Audio
- Supports Smartphone, iPad, Remote Monitoring
- IP66 Ingress Protection
- Support Three Streams
- DC12V / PoE

DIMENSIONS

Unit : inch (mm)

OPTIONAL ACCESSORIES

AVM-DWMT-W   AVM-P-CMT   AVM-P-PMT

AVC-VHN41AVLT/V2
4MP H.265 IR OUTDOOR DOME CAMERA

SPECIFICATIONS

CAMERA	
Image Sensor	1/3" Progressive Scan CMOS
Resolution	4MP
Image Size	2592 x 1520
Electronic Shutter	1/25s to 1/100,000s
Iris Type	DC Iris
IR Distance	Up to 100ft.
Min. Illumination	Color: 0.05 lux@F1.2, AGC ON;B/W: 0lux with IR
Lens	2.8 ~ 12mm MP Motorized Auto-Focus Lens
Lens Mount	CS Mount, φ14 Mount (-FZ)
Wide Dynamic Range	True WDR
Digital NR	Yes (3D DNR)
Backlight Compensation (BLC)	Yes
Day and Night	True
Defog	Yes
HLC	Yes
Sharpness	Yes
Language	Support for 12 Different Languages

VIDEO STREAM	
Max. Image Resolution	2592 x 1520
Primary Stream	4MP/3MP/1080P/ (30fps)
Secondary Stream	720P/D1/CIF (30fps)
Tertiary Stream	D1/480x240/CIF:30fps
Video Compression	H.265 MP; H.264 BL/ MP/ HP; MJPEG
Video Bit Rate	64 Kbps~10Mbps (CBR / VBR Adjustable)
Image Settings	ROI, Saturation, Brightness, Hue, Contrast, WDR, Sharpness, etc.

NETWORK	
Ethernet	1 x RJ45
Network Storage	Network Remote Storage
Remote Monitoring	Web Browser Interface, AVYCON CVMS / CVMS 2.0, Mobile App
Online Connections	Supports up to 10 Concurrent Users
Protocol	TCP/IP, UDP, DHCP, NTP, RTSP, PPPOE, DDNS, SMTP, FTP

AUDIO	
Audio Compression	G711A / U
Audio I/O	1/1

SYSTEM	
Alarm	1/1
Local Storage	Built-in Micro SD Card Slot; Up to 128 GB
Advanced Function	Video Masking, Non-Photosensitive Switch, Watermarking, IP Address Filtering, Image Distortion Correction, Heartbeat Tracking
Event Trigger	Motion Detection, IP Address Conflict, Cable Disconnection
Event Action	Password Protection, SD Card Error, SD Card Full
Video Analytics	Region Entrance, Region Exit, Intrusion Detection, Line Crossing Detection, Human Counting, Vehicle Counting, Human Tracking, Face Capture, Face Detection, Heat Map, Crowd Density Detection, Video Tampering Detection, Scene Change Detection, Abandoned Object Detection, Missing Object Detection

GENERAL	
Supported Protocols	ONVIF Profiles S, G, and T
Input Voltage	DC12V/PoE
Power Consumption	<5W (IR On), <2.5W (IR Off)
Hardware Reset	Yes
Ingress Protection	IP66
Housing Protection	IK10
Working Environment	-22°~140° F (-30°~50° C)
Working Humidity	10% ~ 90% Relative Humidity
Weight	0.73 lbs
Dimensions	4.25" x 3.6" (108mm x 91.4mm)

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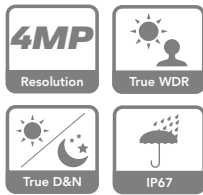
phone: 949-752-7606
email: info@avycon.com
social: @avycon_aivo
website: avycon.com

AVC–BHN41AVT
4MP H.265 VARIFOCAL BULLET NETWORK CAMERA

4MP H.265 **VARIFOCAL BULLET NETWORK CAMERA**

4MP H.265 NETWORK IR WEATHER-PROOF BULLET CAMERA

The AVC-BHN41AVT is our 4MP H.265 Network IR Bullet Camera with a 2.8mm~12mm motorized lens and featuring our newest generation of video analytics. This camera supports True Day/Night mode, True WDR capabilities and also includes a microSD memory card slot for standalone recording applications. The AVC-BHN41AVT can be powered by both PoE (802.3af) and DC12V and also includes a hardware reset button. Integrated Video Analytics include Missing/Abandoned Objects*, Line Crossing, Heat Map*, Vehicle/People Counting and Facial Detection.

*Features available soon

4MP Resolution | **True WDR**

True D&N | **IP67**

FUNCTIONS

• 4MP (2592 x 1520) H.265 Full Real Time Encoding
• Max. Resolution: 2592 x 1520
• True Day / Night Operation with ICR Automatic Switching
• Up to 165ft Nightime IR Illumination
• Smart IR Illumination
• 2.8 - 12mm Varifocal Motorized Lens with Autofocus
• True WDR
• 3D DNR, HLC, BLC, Defog, and ROI encoding
• Supports image distortion correction
• Built-in micro SD card slot, up to 128GB
• Supports triple streams
• DC12V/PoE power supply
• IP67 ingress protection
• P2P/NAT Function available
• Supports remote monitoring by Smart Phones/Tablets with iOS and Android OS
• Intelligent analytics including: Line Crossing, Region intrustion, Person and Vehicle Counting, Scene Change/Vandalism Detection, Face Detection and others.

DIMENSIONS

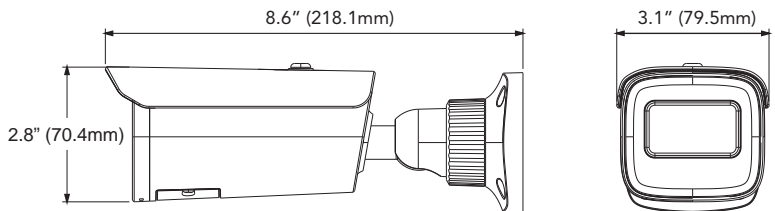Unit : inch (mm)

8.6" (218.1mm)

3.1" (79.5mm)

2.8" (70.4mm)

OPTIONAL ACCESSORIES

AVM-BDMT-W-TL1   AVM-DPMT-W-TL1

AVYCON®

AVC-BNH41AVT
4MP H.265 VARIFOCAL BULLET NETWORK CAMERA

SPECIFICATIONS

CAMERA	
Image Sensor	1/3" Progressive Scan CMOS
Resolution	4MP
Image Size	2592 x 1520
Electronic Shutter	1/30s to 1/100,000s
Iris Type	Fixed Iris / DC Iris
IR Distance	Up to 165ft. (50m)
Min. Illumination	0.005 lux@F1.6, AGC ON; 0 lux with IR, 0.0028 lux@F1.2, AGC ON; 0 lux with IR
Lens	Motorized: 2.8~12mm@F1.4, Horizontal FoV: 94.2°~29.8°; Vertical FoV:62.4°~17°; Diagonal FoV: 102°~33.9°
Lens Mount	Ø14
Angle Adjustment	Pan: 0° ~ 360°; Tilt: 0° ~ 80°; Rotation: 0° ~ 360°
Wide Dynamic Range	True WDR (120 dB)
Digital NR	3D DNR
Backlight Compensation (BLC)	Yes
Highlight Compensation (HLC)	Yes
Defog	Yes
Day & Night	Yes
VIDEO STREAM	
Max. Image Resolution	2592 x 1520
Primary Stream	(2592 x 1520): 30fps
	60Hz: (2592 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720) @ 30fps
	HFR mode: (60Hz:1920 x 1080, 1280 x 720) @ 60fps
	50Hz: (2592x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720) @ 25fps
	HFR mode: (50Hz: 1920 x 1080, 1280 x 720) @ 50fps
Secondary Stream	(1280 x 720, 704 x 480, 352 x 288, 480 x 240) @ 30fps
	(1280 x 720, 704, 480, 352 x 288, 480 x 240) @ 25fps
Tertiary Stream	(704 x 480, 352 x 288, 480 x 240) @ 30fps
Video Compression	H.265 MP / H.264 BP / MP / HP / MJPEG
Video Bit Rate	64Kbps~8Mbps (CBR / VBR Adjustable)
Image Settings	ROI, Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR, etc. (Adjustable through Software or Browser)
NETWORK	
Ethernet	1 x RJ45 10M / 100M Self-Adaption
Network Storage	Network Remote Storage
Remote Monitoring	Web Browser Interface, Mobile App, AVYCON CVMS / CVMS 2.0
Online Connections	Supports Up to 10 Concurrent Users
Protocol	UDP, DHCP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, 802.1x, UPnP, HTTPs, QoS, IPv4, IPv6
AUDIO	
Audio Compression	G711A / U
Audio I/O	1/0; 1(Mic-In)
SYSTEM	
Alarm	No
Local Storage	Built-in Micro SD Card Slot; Up to 128 GB
Smart Alarm	Motion Alarm, Sensor Alarm, SD Card Error, SD Card Full
Video Analytics	Line Crossing, Region intrusion, Person and Vehicle Counting, Scene Change/Vandalism Detection, Face Detection and others
GENERAL	
Supported Protocols	ONVIF Profiles S and G
Input Voltage	DC 12V / PoE
Power Consumption	<9.5W
Hardware Reset	Yes
Ingress Protection	IP67
Working Environment	-22°F~140°F (-30°~60° Celcius)
Working Humidity	10%~90% (Non-Condensing)
Weight	1.5lbs
Dimensions	8.6" x 3.1" x 2.8" (218.1mm x 79.5mm x 70.4mm)

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phone: 949-752-7606
email: info@avycon.com
social: @avycon_aivo
website: avycon.com

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AVC-KHN41FT/2.8(-W)

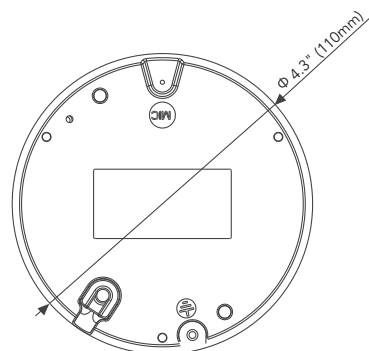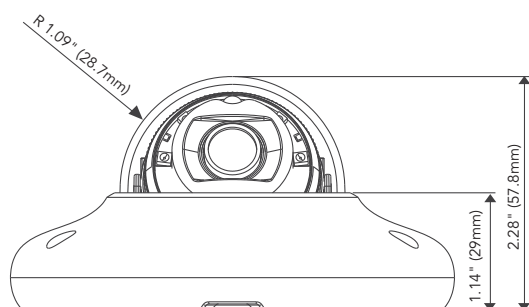## 4MP H.265 NETWORK IR DOME CAMERA

IP CAMERA

FEATURES

- 4MP (2592 × 1520) H.265 Full Real Time Encoding
- Max. Resolution: 2592 × 1520
- True Day/Night ICR
- Up to 33ft. Night time Viewing Distance
- 3D DNR, S-WDR (True)
- Support HLC, BLC and Defogging
- ROI Encoding
- Local microSD card storage, up to 128GB
- Supports PoE (3.5W / 4.5W with IR On)
- Built-in Microphone and MIC IN 3.5mm input
- Supports Local CVBS/Analog Video Output (BNC)
- Support Smartphone, iPad, Remote Monitoring
- Supports P2P Remote Connection
- Support Three Streams

4MP · **ICR** · **3DNR NOISE REDUCTION** · **DAY & NIGHT** · **PoE** · **IP66**

DIMENSIONS

* Units : Inches (mm)

R 1.09 " (28.7mm)

2.28 " (57.8mm)

1.14 " (29mm)

Φ 4.3" (110mm)

MIC

SPECIFICATIONS

DESCRIPTION	AVC-KHN41FT/2.8-W
IMAGE SENSOR	1/3" CMOS
IMAGE SIZE	2688 x 1520
ELECTRONIC SHUTTER	1/25s ~ 1/100000s
AUTO IRIS	Fixed Iris
MIN. ILLUMINATION	0.05 lux @ F1.2, AGC ON; 0 lux with IR
LENS	2.8mm @ F1.6, Horizontal View Angle: 85°
LENS MOUNT	M12
DAY & NIGHT	ICR
WIDE DYNAMIC RANGE	120dB
BLC	YES
HLC	YES
DEFOGGING	YES
DIGITAL NR	2D / 3D DNR
ANGLE ADJUSTMENT	Pan : 0°~360°, Tilt : 0°~70°, Rotation Angle: 0°~350°
VIDEO COMPRESSION	H.265 / H.264 / MJPEG
H.265 COMPRESSION STANDARD	Main Profile @ Level 4.1 High Tier
RESOLUTION	4MP (2592×1520), 2K (2560×1440), 3MP (2304×1296), 1080P (1920×1080), 720P (1280×720), D1, CIF, 480×240D1 (1~30fps) / 480x240 (1~30fps) / CIF (1~30fps)
MAIN STREAM	60HZ : 4MP (1 ~ 30FPS) / 2K (1 ~ 30FPS) / 3MP(1 ~ 30FPS) / 1080P(1 ~ 60FPS) / 720P(1 ~ 30FPS) 50HZ : 4MP (1 ~ 25FPS) / 2K (1 ~ 25FPS) / 3MP(1 ~ 25FPS) / 1080P(1 ~ 50FPS) / 720P(1 ~ 25FPS)
BIT RATE	64Kbps~10Mbps
ENCODE MODE	VBR / CBR
QUALITY	Five Levels Under VBR; Freely Adjustable under CBR
IMAGE SETTINGS	ROI, Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR,etc. Adjustable through Client Software or Web Browser
AUDIO COMPRESSION	G711A / U
ROI	Each ROI to be configured separately
NETWORK	RJ45
AUDIO	MIC IN × 1; One built-in Microphone
VIDEO OUTPUT	CVBS Video Output (BNC × 1)
STORAGE CARD	microSD Card, up to 128GB
REMOTE MONITORING	Browser (Internet Explorer), CVMS, Mobile CVMS
ONLINE CONNECTION	Supports simultaneous monitoring for up to 10 users; Supports multi-stream real time transmission
NETWORK PROTOCOL	TCP/IP, UDP, DHCP, NTP, RTSP, PPPOE, DDNS, SMTP, FTP
INTERFACE PROTOCOL	ONVIF, GB-T/28181-2011
STORAGE	TF Card Local Storage, Network Remote Storage
SMART ALARM	Motion Alarm
POE	Yes
IR DISTANCE	Up to 33ft.
POWER SUPPLY	DC12V / PoE
POWER CONSUMPTION (IR ON)	< 3.5W
IR CONSUMPTION ON	< 4.5W
OPERATING ENVIRONMENT	-4°F~ 122°F (- 20 °C ~ 50 °C), 10 % ~ 90 % Humidity
DIMENSIONS (mm)	Φ110mm × 58mm (4.3" x 2.3")
WEIGHT (net)	0.77 lbs (349g)
INSTALLATION	Wall mounted or Ceiling mounted