TC-3221-W

Amcrest High Sensitivity VOx Thermal Camera

Technical Specifications

Thermal Camera	TC-3221-W
Detector Type	Vanadium oxide uncooled focal plane detector
Effective Pixels	400 × 300
Pixel Pitch	17 μm
Spectral Range	8 μm–14 μm
Thermal Sensitivity (NETD)	≤40 mK
Focal Length	13mm
Field of View	13mm: horizontal: 30°, vertical: 22.6°
Focus Mode	Fixed-focal
Aperture	F1.0
Digital Detail Enhancement	Supported
Thermal Imaging Stabilization	Electronic Imaging Stabilization
AGC	Auto; Manual
Noise Reduction	2D NR; 3D NR
Image Flip	90°/180°/Mirror
Color Palettes	18 color modes selectable such as Whitehot/Blackhot/Ironrow/Icefire.
Temp Measurement Range	86°F~113°F (30°C~+45°C)
Temperature Accuracy	Max ±0.3°C with blackbody, Max ±1°C without blackbody
Temperature Mode	Spot: 12, Line: 12, Area: 12, Support 12 rules simultaneously
Visible	
Image Sensor	1/2.8" 2M CMOS
Effective Pixels	1920(H) x 1080(V)
Electronic Shutter Speed	1/1 ~ 1/30,000s
Min. Illumination	Color: 0.002Lux; B/W: 0.0002Lux; 0Lux (IR on)
IR Distance	115ft (35m)
IR On/Off Control	Auto/Manual
IR LEDs	1
Focal Length	8mm
Max Aperture	F1.9
Angle of View	H:40° V:22°
Audio and Video	
Video Compression	H.265, H.264, H.264H, H.264B
Resolution	**Thermal** Main stream: (1280 × 1024/1024 × 768/640 × 480/256 × 192@), 1280 × 960 Sub stream: (640 × 512/256 × 192@), 256 × 192 **Visible** Main stream: (1920 × 1080/1280 × 720/704 × 576@), 1920 × 1080 Sub stream: (704 × 576/352 × 288@), 355 x 288
Audio Compression	G.711a; G.711mu; AAC; PCM
Image Encoding Format	JPEG
General Functions	

Two-way Talk	Yes
Network Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; UPnP; NTP
Region of Interest (ROI)	Yes
Edge Storage	FTP; Micro SD card (256G, hot plug)
Interoperability	ONVIF; CGI; SDK
Browser Compatibility	IE: IE8 and the later, and explorer with IE core, Google: 42 and the earlier, Firefox: 42 and the earlier, Safari: 10 and the earlier.
User/Host	20 channels at most (the total bandwidth 64M)
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access
User Management	Support 20 users at most and users are classified as two groups-administrator group and user group.
Malfunction Detection	Network disconnection; IP addresses conflict; SD card error (status or storage space)
Port	
Analog Video Output	1 channel of CVBS output with BNC port
Network	1 10M/100M Ethernet port (RJ-45)
Alarm Input	2 Channels
Alarm Output	2 Channels
Audio Input	1 Channel
Audio Output	1 Channel
Alarm Linkage	SD card recording/on-off output/siren and light/email/PTZ/snapshot
Alarm Event	Motion detection/privacy mask/audio detection/SD card abnormality/network abnormality/anti-burn warning
RS-485	1 Channel
Power	
Power Supply	12V±20% DC, 1.2A, PoE (802.3af), ePoE
Power Consumption	Basic: 5.0W, Maximum: 12W (power adapter excluded)
Environment	
Operating Temperature	50°F~86°F (10°C~30°C)
Storage Temperature	-40°F~158°F (-40°C~70°C)
Operating Humidity	≤95%
Self-Adaptive	Auto heating to protect the chip under the cold environment
Physical Characteristics	
Protection Grade	IP67, anti-surge 6KV, anti-electrostatic 8KV (touched by objects), anti-electrostatic 15KV (air)
Dimensions (L x W x H)	11.5" x 1.09" 3.81" (292.1mm x 27.7mm x 96.8mm)
Packaging Dimensions	14.37" x 6.89" x 6.93" (365mm x 175mm x 176mm)
Net Weight	≤1.4 kg (3.09 lb)
Gross Weight	≤1.9 kg (4.19 lb)
Power Adapter	Selectable
Lens	Contained

Dimensions

280.0[11.02'']

70[2.76'']

70[2.76'']

4-Ø4.50[0.177'']

98.80[3.9'']

266.50[10.49'']

103.5[4.07'']

95.8[3.77'']