WatchNET
SECURITY SINCE 2000

Ai
WatchNET

TNB-BBC
Black Body Calibrator

BRACK-PM-06
BRACK-PM-63
Pendant Mount
Bracket Included

TNC-20-BDC
Dual Spectrum Thermal Camera

IP66 | H.265 | WDR | Micro SD | IR | Motorized Lens

Thermal Camera Kit
TNC-20-BDCKIT

TNC-20-BDC Features:

- On-board temp-detection algorithm
- One IP address two channels
- Effective pixels 400×300
- Sensitivity 40mK
- Thermal: 8mm Fixed lens,
- Visible: 2.7-12mm motorized lens
- Accuracy 0.3°C
- Body detection, up to 16 Targets
- Response Time 30ms
- 7 color control dual spectrum video

TNB-BBC Features:

- A Non-contact Constant temperature equipment
- Black Body Calibrator is a standard temperature source used for temperature calibration
- When taking temperature measurement, it is greatly affected by environmental factors and it needs to be calibrated in real time through the Black Body Calibrator
- Pendant mounting bracket included

RoHS LEAD FREE
CE FC

Face Temperature | Early Discovery | Early Isolation

Prevent Diffusion | | Early Treatment

Early Report | Cut Off Transmission | App | Data Analyze

Temperature Range	40^0C Ambient temp.+5.00^0C to 50^0C 104^0F Ambient temp.+41^0F to 122^0F
Emissive Area	70mm×70mm/2.76"×2.76
Temperature Resolution	0.1^0C / 32.18^0F
Accuracy	±0.2^0C (@40^0C / ±0.2^0C (@40^0C) ±32.36^0F (@104^0F / ±32.36^0F (@104^0F)
Stability	± 0.1～0.2^0C/30min ± 32.18～32.36^0F/30min
Emissivity	0.97±0.02
Power supply	110V / 220VAC
Operating ambient temperature	0^0C~40^0C / ≤80%RH 32^0F~104^0F / ≤80%RH
Dimensions	110mm(W)×120mm(H)×180mm(D) 4.33"(W)×4.72"(H)×7.09"(D)
Weight	1.8kg / 3.97lb
Option	RS485 communication

Model	TNC-20-BDC
Thermal Camera	
Detector Type	Uncooled IRFPA Micro bolometer
Effective Pixels	400(H) ×300(V)
Pixel Size	17um
Thermal Sensitivity (NETD)	40mK @F1.0, 300K
Spectral Range	8~14um
Image Setting	Polarity LUT/ DVE/ Mirror/ FCC/ /3D DNR Brightness/Contrast/ ROI
Color Palettes	Black-Heat / White-Heat / Rainbow / Iron-Red up to 17 modes
Thermal Lens	
Lens Type	Fixed
Focus Control	Manual Focus
Focal Length	8mm
Max. Aperture	F1.0
Angle of View	H: 46°, V:35.3°
Visible Camera	
Visible Camera	1/1.9" Sony CMOS
Effective Resolution	1920(H)×1080(V)
Shutter Speed	1/50 ~ 1/64,000s
WDR	True WDR 120dB
Min. Illumination	Color: 0.01Lux @(F1.2, AGC ON) B/W: 0.001Lux @(F1.2, AGC ON)
S/N Ratio	More than 55dB
Focal Length	2.7 ~ 12mm
Max Aperture	F1.6~ F2.9
Angle of View	105°~ 32°
Focus Control	Motorized
Video and Audio	
Compression	H.265, H.264, MJPEG
Frame Rate	Main Stream: Thermal: D1 @25/30fps Visible: 1920×1080/1280×720 @25/30fps Sub Stream: Thermal: CIF @25/30fps Visible: D1/VGA/640×360/CIF/QCIF/QVGA @25/30fps
Region of Interest	Off / On (8 Zone, Rectangle)
Digital Zoom	16x
Mirror	Yes
Motion Detection	Yes
Privacy Masking	Off / On (4 Area, Rectangle)
DVE Image Enhance	Support
Audio Compression	G.711, AMR, RAW_PCM (Optional)

Professional Intelligence	
Intelligent Functions	Motion detection, Disk alarm, I/O alarm, Temperature alarm
IVS	Smart Body Detection, Perimeter, Single Virtual Fences, Double Virtual Fences, Object Left, Object Removed
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocols	IPv4/IPv6, HTTP, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, SIP, 802.1x
Interoperability	ONVIF, CGI, SDK
Streaming Method	Unicast
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian
Edge Storage	NAS Local PC for instant recording Micro SD card 128GB
Temperature Detection	
Detection Mode	Body temperature monitoring
Detection Preset	Max 16 goals
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	≤ 0.3 °C (Emission rate, distance, ambient temperature)
Response Time	≤30ms
Theory of temperature measurement range	Temperature target >5°C, Display absolute temperature value; Temperature target ≤5°C, Display relative temperature value (temperature difference DEV = highest value - average)
Interface	
Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch Audio In,1ch Audio Out
Alarm	2ch Alarm In, 2ch Alarm Out
RS485	Support
BNC Output	N/A
Reset Button	Support (Built-in)
Electrical	
Power supply	DC12V/POE (IEEE 802.3af)
Power Consumption	Max 10W
General	
Operating Conditions	-30°C ~ +60°C (-22°F ~ +140°F)
Storage Conditions	0~ 90% RH
Ingress protection	IP66
Construction	
Casing	Metal
Dimensions	212 × 182 × 136mm / 8.35" × 7.16" x
Net Weight	2kg (4.41 lb)
Certifications	CE /FCC