

**Chiang Bin Electronic Co. Ltd.**

# **New Release 2020**

**Tools for Initial Fever Screening**

- Identifies Individual Body Temperature
- Rapidly Pre-screens Individuals Entering any Facility for Fever
- Alarm and playback

## Preface

COVID-19 has brought great change to the world with new perceptions and needs quietly taking shape.

Among all the symptoms of COVID-19, fever is the most prominent; thus body temperature management is the first step in its prevention.

Of the many measures taken in Taiwan to control/eliminate the pandemic, body temperature measurement is a major factor. Temperature measurement is required before entering all public places, hence greatly reducing the possibility of the spread of the disease. Yet, relying on human temperature takers is not nearly as optimum as using technology for this purpose.

The integration of artificial intelligence with infrared thermal cameras and the advent of human body temperature measurement cameras is necessary because;

Without AI:

- A cup of hot coffee would be mistakenly be identified as a “person” with high fever.
- Many people simultaneously entering a facility could not be identified individually.

This is the worst virus of recent times, however, recent times have provided us with the most advanced technology to combat this virus. To do their best, workers must sharpen their tools.

In the past, monitors and entrance/exit scanning devices did not exist. Now, however, these devices are common and installed in nearly all public spaces.

Perhaps one day people will pass through Thermal Body Camera scanning in all government agencies, schools, hospitals, airports, movie theaters, and shopping malls. Due to changes in thinking and understanding brought on by COVID-19, public health becomes the frame of reference for contact between people. The countries that can take the lead in this practice will be less impacted and accordingly be able to maintain normal operations during the crisis.

Taiwan having the advantages of both hardware and software providers, along with extensive investment and resources made available by the government and private sector; produces the AI Thermal Individual Camera with Early Warning focused on accuracy and practicality.

Chiang Bin has selected this product for our customers,  
Taiwan manufacturers self-developed model with measurement error value at plus or minus 0.5 degrees Celsius.

It applies to general public spaces, schools, companies, government departments, and hospitals.

**Triage and prevention in service to others!**

**Yiyin Chen**

G.M. of **Chiang Bin Electronic Co., Ltd.**

Taiwan

June 2020

Chiang Bin Electronic Co. Ltd.

## CBT-MS3000

### AI Human Body Thermal Meter System

AI Human Body Thermal Meter System includes  
AI Human Body Thermal IP Camera  
+  
Intelligent Thermal Video Analytics NVR

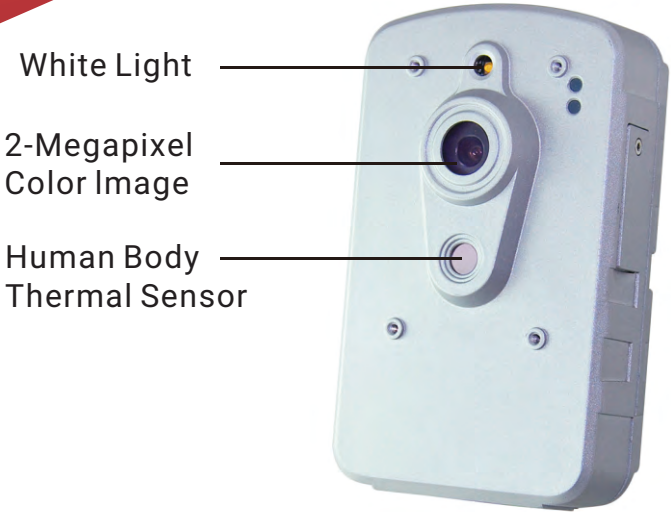






CBT-MS3000-IPC

AI Human Body Thermal IP Camera



Body Temperature Detection

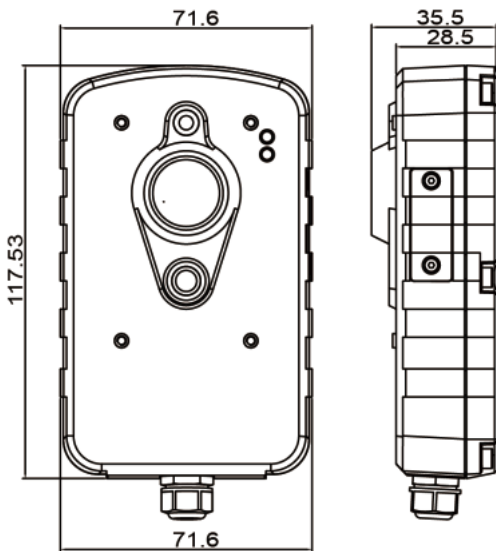
- Thermal & Color Dual Eye IP Camera
- Thermal Image & Temperature Indication by IVS-NVR Software
- Precise AI Thermal Temperature
- 2M Color Image for Visible Personal Identification
- Multi-Person Fever Detection Application
- Environmental Temperature Deep Learning Reset Button
- Fever Temperature Alarm I/O & White LED Light on During Alarm
- Supports 12Vdc & PoE
- Meets USA FDA Enforcement Policy
- Working Environment Temp. Range -10°C ~ 50°C

Thermal Video	Imaging Sensor	Uncooled VOx Microbolometer
	Pixel Resolution	FLIR (USA) 80×60, Progressive Scan 17 μm
	Spectral Range	Longwave infrared 8 μm to 14 μm
	Angle of View	H 51°, V 38°, D 64°
	Full Frame Rates	9 fps (NTSC); 9 fps (PAL)
	Thermal Display	Black & White/ Color/ Reverse Model
	Temperature Detection Tolerance	Distance from Center & Max. Temperature Tolerance (MAX 1 Meter / Tolerance ± 0.5°C)
	Temperature Alarm (Optional)	Range 30°- 45°C

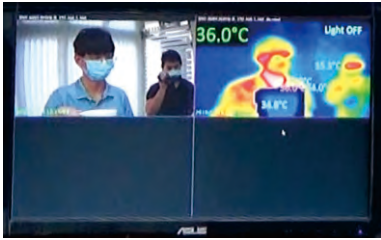
Visible Video	Image Sensor:	1/2.9" Sony 2M Exmor CMOS
	Video Resolution	2Megapixel/1Megapixel; 1920×1080P/1280×720@30FPS
	Minimum Illumination	Color: 0.1Lux@F2.0, Sense-up: 0.001Lux@F2.0,
	Light On	0.0012Lux@F2.0
	White Balance	Yes
	Image Setting	Brightness, Contrast, Saturation, Sharpness, De-noise, Grayscale
	Lens	f6.0mm
	WDR	Yes
	ICR	N/A
	Aperture	Fixed Lens
	LED Working/ Distance (Meter)	White LED 5 Meter, manual or Alarm (On/ Off) mode
	OSD Menu	English, Japanese, Traditional Chinese, Simplified Chinese

General	TV System	PAL/NTSC
	Video Compression	H.264. MPEG4, M-JPG
	Browser	IE 10 or Above
	Ethernet	10/100M Auto Negotiation
	Bit Rate	64 up to 12,000 Kbps
	ONVIF	Supports ONVIF (Profile S)
	Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, SNMP, TRAP, ONVIF, Ethernet(RJ-45 Wired 10/100 Base-TX)
	User	9 Users
	Security	ID / Password Protection
	Alarm Trigger	File Upload via FTP and Email/Notification via Email, HTTP, External Digital Output Activation
	Multicast	Yes
	Connector	RJ45, DC Power, Reset Button, SD Slot
	Alarm In / Out	DI / DO
	Power Supply	12Vdc/ PoE; 4W
	Audio	Line In / Line Out 3.5mm
	Temp.; Humidity	-10° C ~ 50° C ; RH80%
	Dimensions	71.6(W) x 117.5(H) x 35.5(D)mm

Camera Dimensions(7\*12\*4mm)



Software + IVS-NVR



Software + CBT-MS3000-NVR(15\*15\*8mm)  
(Standard package: 1 Camera and 1 NVR)



# CBT-MS3000-NVR

## Intelligent Thermal Video Analytics NVR

- Max. 2 Camera Inputs - Surveillance & Thermal Image Display
- Multi-person Individual Temperature Display & Real-time Alarm & Temperature Recording
- Non-human Body Heat Source Filtering
- Differential Environmental Temperature Offsetting
- Recorded Fever Warning on Screen & Audio Alarm
- Built-in 2TB HDD, Gigabit Port, USB Type C x 1 + USB 3.0 Type A x 2  
USB 2.0 Type A x1
- Simultaneous output for 3 screens: HDMI + Display Port + VGA
- **2 Channels available in 1 NVR**

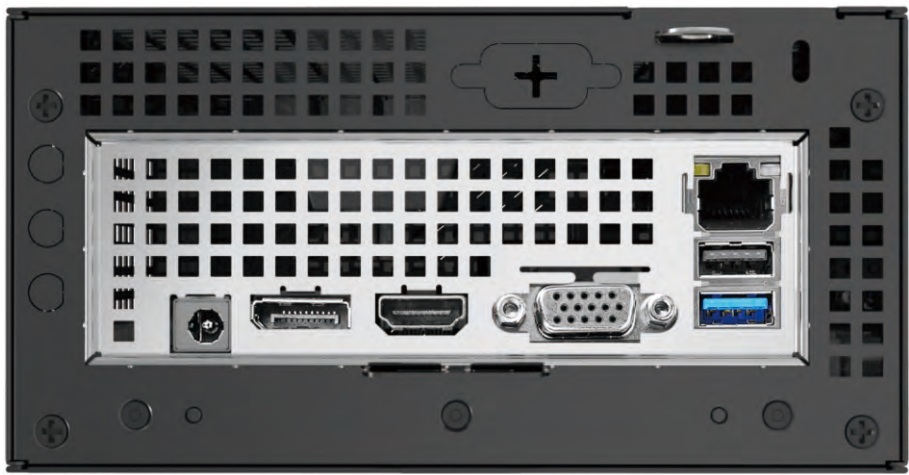
Intelligent Functions	Thermal Imaging	<ul style="list-style-type: none"><li>• Dual-camera video display - visible &amp; thermal objects display for quick identification</li><li>• Auto-alarm for exceeding a set value of body temperature</li><li>• Differential environmental temperature offsetting</li><li>• Non-human heat source filtering</li></ul>
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Software Features	CMS & Management	<ul style="list-style-type: none"><li>• Managing &amp; monitoring event notifications from multiple DVR/NVR sites</li><li>• Archive event logs for tracking</li><li>• Map display &amp; real-time video display</li></ul>
	Storage	<ul style="list-style-type: none"><li>• Cache video recordings while confronting abnormal network traffic to avoid data loss</li><li>• Auto-recycle &amp; easy video search on external storage</li><li>• Extendable storage space to NAS/SAN/DAS for a large amount of data</li></ul>
	Networking Optimization	<ul style="list-style-type: none"><li>• Auto-connection &amp; setup IP cameras in LAN with One Step (certain models only)</li><li>• Local display &amp; video search</li><li>• Double stream</li></ul>
	Playback	<ul style="list-style-type: none"><li>• Supports one screen &amp; multiscreen playback. It can display 4, 6, 9, 16, 25, and 36 channels on a single screen</li><li>• Supports calendar input, time input and timeline playback</li><li>• Playback available in 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, 32x, 64x, 100x and 200x</li><li>• Snapshot of the recording in JPEG/BMP format; or export a section of the video in “AVI” and “JPEG” format</li><li>• Video effect processing such as picture mosaic and screen rotation</li><li>• Continuous screenshot (1~999 pictures) in playback mode</li><li>• Searches for 5 types of different analytics events, digital PTZ and video enhancement tool are all available in playback mode</li><li>• Supports simultaneous playback / Intelligent playback system</li></ul>
	Monitor	<ul style="list-style-type: none"><li>• Supports up to 5-megapixel high-resolution IP cameras ; and 2 M cameras can reach 30 fps</li><li>• Supports ONVIF &amp; RTSP protocols for auxiliary cameras -- nearly any name-brand cameras, while setting the number, streaming and resolution of the video in use on the Web</li><li>• Users can supervise the status of a local server and check remaining storage space, a camera list, and connection status through the screen</li><li>• 1/4/6/9/10/13/16/25/36 split-screen, full screen and customized display</li><li>• Supports bidirectional monitoring function (can be turned off) without affecting the video.</li><li>• Network Time Auto-Calibration (NTP)</li></ul>



# CBT-MS3000-NVR

Intelligent Thermal Video Analytics NVR



Software Features	Audio & Video Recording	<ul style="list-style-type: none"><li>• Supports up to 5 million pixel high-resolution IP camera; 2M cameras can reach 30 frames per second</li><li>• Supports H.264 / H265 format</li><li>• Intelligent video mode: Scheduled scheduling video, alarm video, appointment plus alarm</li><li>• Supports motion detection alarm, camera shelter according to user needs, the division of a number of different warning areas, and can support multi-level detection sensitivity level</li><li>• Supports watermark</li></ul>
	Alarm	<ul style="list-style-type: none"><li>• Displacement detection &amp; I/O Alarm &amp; IVS Alarm</li><li>• Supports pre-alarm 0~150 Sec recording &amp; post-alarm 5~120 Sec recording</li></ul>
	Alarm with Actions	<ul style="list-style-type: none"><li>• Alarm with actions can be edited in accordance with the type of alarm, the source location of the action; the corresponding picture captures the four orders to define their own linkage mapping, which can be a single event source. For example, Camera 1 generates a motion detection event, and a snapshot. The cameras 2 &amp; 5 then start recording</li><li>• Actions include video recording, alarm screen and even voice-activated camera PTZ preset point, E-mail, and single-screen zoom</li><li>• Events like motion detection, sensor triggering, video loss &amp; HDD damage can be specifically assigned to different corresponding voice files by alarms and channel videos as well as sending email or text messages to users by configurations</li></ul>
	Recording	<ul style="list-style-type: none"><li>• Continuous recording, digital input recording, motion recording, event recording, boost recording, schedule recording, and manual recording</li><li>• Operation rights can be divided into storage management, user equipment video scheduling displacement detection network management, system settings log alarm linkage management, edit the lens arrangement order password change PTZ operation control, playback function photo browse E-map Close NVR system, allowing remote log in NVR and allow the number of cameras to monitor the screen and other permissions to be distinguished</li></ul>
	Automatic Backup	<ul style="list-style-type: none"><li>• To set their own backup work cycle, such as: month, day or a single execution</li><li>• To specify the data backup time and need to be included in the camera screen</li><li>• Supports local hard disk, external hard disk, network disk, NAS, FTP Server, disk array, and USB flash drive</li></ul>

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## CBT-MS3200

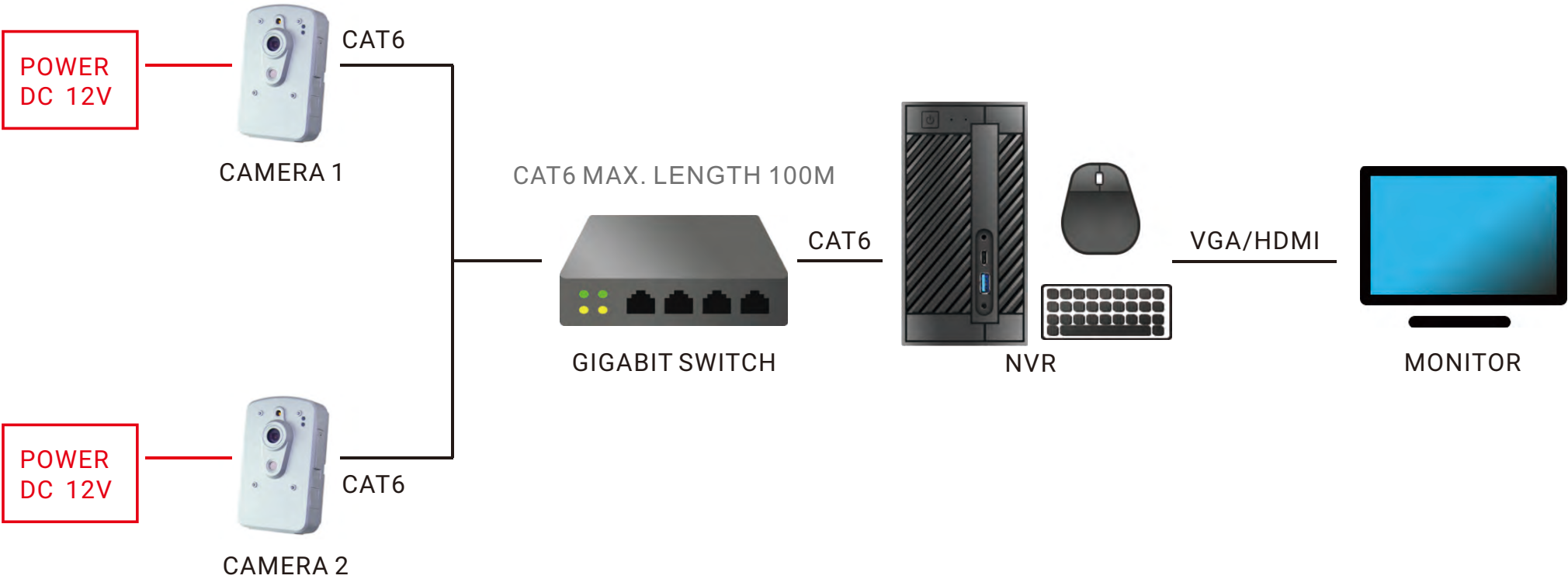
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AI Human Body Thermal Meter System includes  
AI Human Body Thermal IP Camera x 2pcs  
+  
Intelligent Thermal Video Analytics NVR

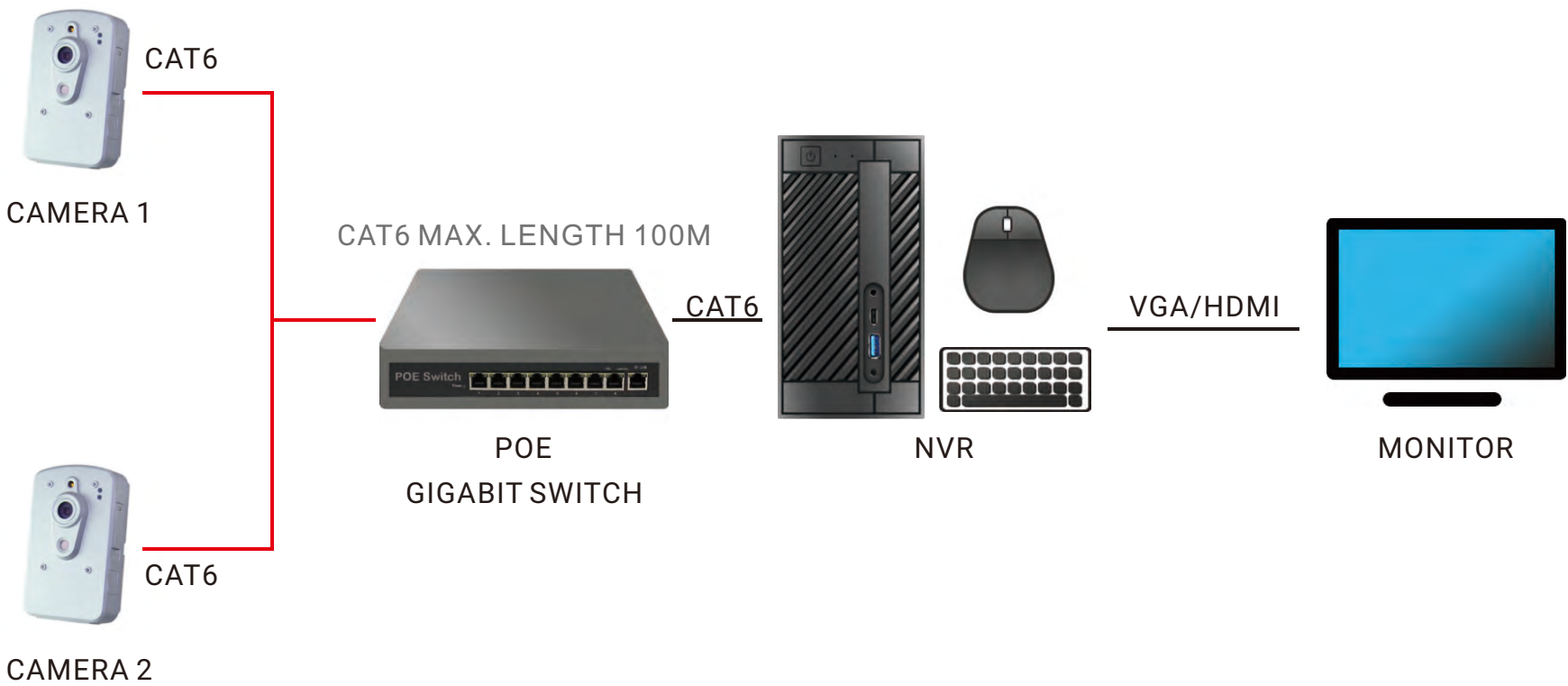




TOPOLOGY 1

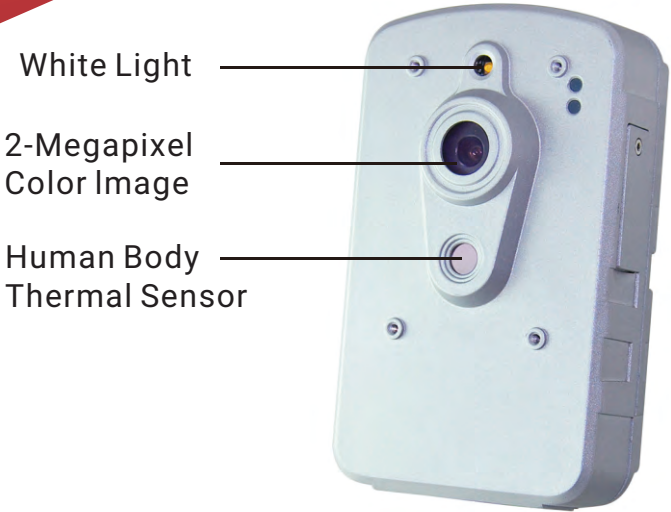


TOPOLOGY 2



CBT-MS3200-IPC

AI Human Body Thermal IP Camera



Body Temperature Detection

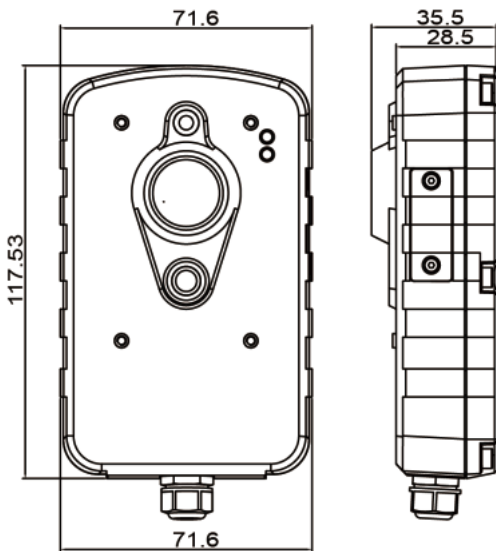
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	White Balance	Yes
	Image Setting	Brightness, Contrast, Saturation, Sharpness, De-noise, Grayscale
	Lens	f6.0mm
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	User	9 Users
	Security	ID / Password Protection
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	Multicast	Yes
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Intelligent Thermal Video Analytics NVR



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