

# Mega PowerView Plus Camera

## Heavy Load P&T Platform

### PBTM180H6X-775HD



Reference photo

## Product Summarize

PRISMABYTES hybrid camera system configuration is as follows.

- Thermal System: Un-Cooled thermal image (7.5~14 $\mu$ m) with 30~180mm (6X zoom) motorized thermal lens
- Day/night system: 2Mega defog camera, with 62X optical zoom (12.5~775mm)
- P&T Motor: 50kgs Heavy duty Pan/tilt with absolute positioning function, auto calibration and interface with EO system and CMS software platform., it built-in power supply module (PSM) and central processing module (CPM)

The thermal system work at far-infra-red frequency @8~14 $\mu$ m , and could show the image of tiny temperature differences. Several image modes could be selected, such as white hot, black hot, fusion, rainbow and other pseudo color modes. The Vanadium Oxide (VOX) is the material, which is immune from the sunshine.

Defog System, uses 2mega pixel 62X HD optical network camera Getting full HD 1080P@30fps real time image by H.265 High Profile encoding output. It can detect cars in 3~4km. And the combination of optical and electronic fog penetration ensures it can get detailed images in foggy days.

So, the hybrid camera system is a best combination of thermal image, day/night camera, and is capable to work with an excellent optical performance at both daytime and night. Due to the above excellent performances, the hybrid camera system is ideal for applications requiring long distance surveillance under harsh environment and all-weather conditions. It always works fine at both daytime and night, even in a rainy/snowing/smog/foggy/dusty day. Intruders hiding in the jungle/grass at night could also be easily detected.

## Configuration

Model No.	Thermal System		Defog System	
PBTM180H6X-775HD	640*512 pixel	30~180mm 6X zoom	2mega camera	12.5~775mm 62X zoom

## Optical Performance Reference

Thermal System				Defog System
Target	Detection (3 pixels)	Recognition (6 pixels)	Identification (12 pixels)	
Vehicle 6*8 m	20 km	10.5 km	5.2 km	8~10km

## Key Features

- ❖ Dual spectral system, obtain thermal imaging and defog with color or B/W image
- ❖ All Metal body
- ❖ With sealed waterproof , dust proof (IP66) , and vandal proof design
- ❖ White /Green / Grey or other customized color optional
- ❖ Geared pan/tilt design with auto-lock function
- ❖ Heavy duty 50kg
- ❖ Pan: 360° rotation and Tilt +/-45°
- ❖ Optical window with coated glass to prevent condensation
- ❖ Wiper system to clean optical window
- ❖ Option heater and fan, to work well under the harsh weather condition
- ❖ Power off memory
- ❖ User definable 128 preset , 8 preset tour and auto scan
- ❖ Unique micro-step function design to ensure the precision of surveying long distance target
- ❖ Manual Zero Calibration
- ❖ Support RJ45, support Onvif
- ❖ Pelco P/D
- ❖ Humidity resistance: maximum 98%
- ❖ CE / ROHS certification

## Specifications

### P&T Specifications

Rotation Range	Pan: 0~360° continuous rotation, Tilt: -45°~+45°
Rotation Speed	Pan: 0.01°~20°/s, Tilt: 0.01°~ 5.7°/s
Preset Speed	Pan: 20°/s,Tilt: 5.7°/s
Preset Accuracy	+/- 0.03° (auto or manual)
Auto Scan	1°-20°/s (auto or manual)
CCD Window	Toughened glass, firmness, high transmittance
Power Supply	AC24V / DC24V
Power Consumption	≤90W

Working Temp	-20°C~+50°C
Storage Temperature	-40°C~ +60°C
System Motor	Gear / Auto-lock

## Thermal Camera Specifications

Lens 30mm~180mm by 640*512 pixel						
Thermal core	Iris	Viewing Angle		WLB (μm)	Focusing Range	Focus Mode
		Wide	Tele			
f 30mm	1.2	20.6°	16.5°	8~14	∞~15m	Motorized
f 180mm		3.5°	2.8°			

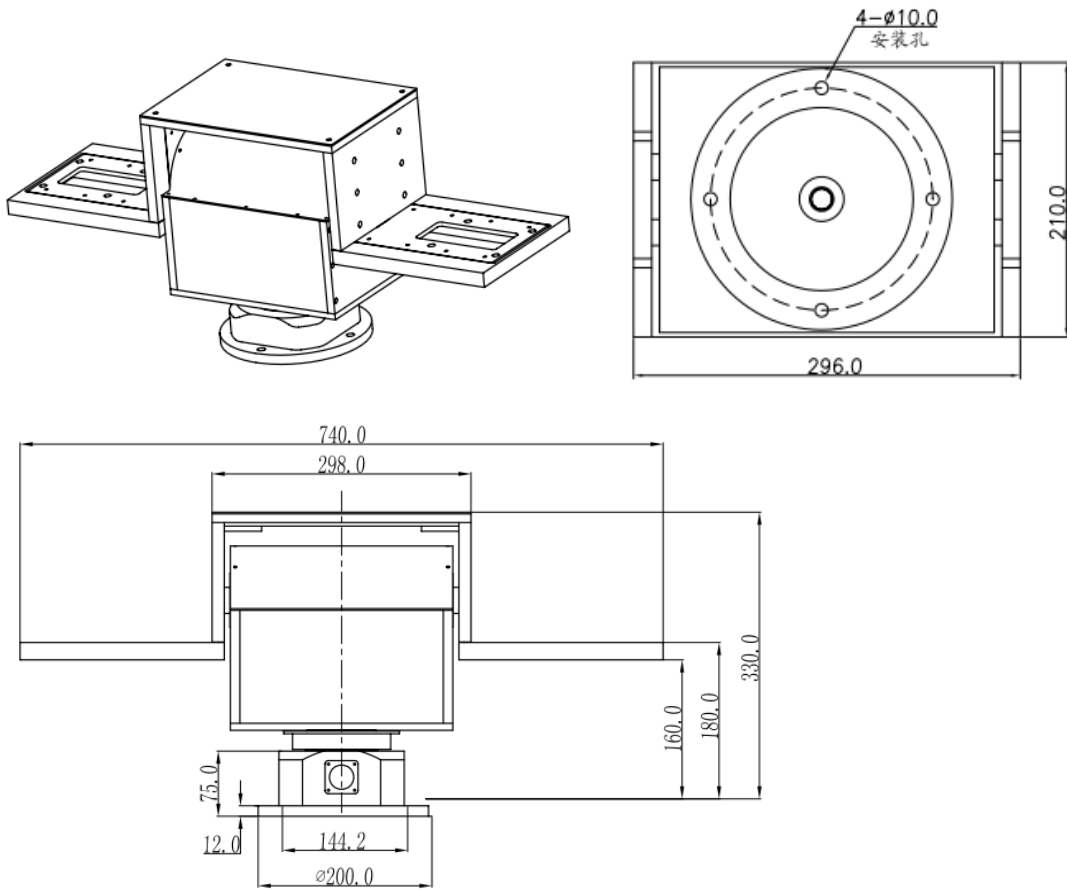
<b>Detector type</b>	Vanadium oxide infrared microbolometer
<b>Resolution</b>	640x512 pixel
<b>Sensitivity</b>	≤40mk @ 300. F1
<b>Pixel size</b>	17μm
<b>Frame frequency</b>	25Hz
<b>Response wave band</b>	8~14μm
<b>Digital zoom</b>	1~8X continue zoom
<b>Network image resolution</b>	720x576 pixel
<b>Main stream frame rate</b>	25fps : 720x576
<b>Sub-stream frame rate</b>	25fps : 352x288
<b>Image enhancement</b>	IDE
<b>Pseudo color</b>	11 kinds of color optional
<b>Network protocol</b>	TCP/IP, ICMP, HTTP, DHCP, DNS, RTP, RTSP, RTCP, IGMP, 802.1X, ONVIF (Profile S)
<b>Video compression</b>	H.264

## Visible Camera Specifications

Sensor type	1/2.8", 2.0 megapixel, progressive scan, CMOS
Focal length	12.5-775mm, 62X optical zoom
Minimum illumination	Colour:0.0005lux (F1.2, AGC ON) B/W: 0.0001Lux(F1.2, AGC ON)
Shutter	Auto/Manual, 1 ~ 1/100000s
Video compression	Ultra 265, H.265, H.264, MJPEG
Main stream resolution	Main Stream: 2MP (1920*1080),Max 60fps; Sub Stream: 720P (1280*720), Max 60fps; Third Stream: D1 (720*576), Max 60fps

Video compression bit rate	128 Kbps~16 Mbps
Defog	support
Basic Detection	Motion detection, Audio detection, Tampering alarm;
BLC	support
supporting agreement	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP,IPv6
Interface Protocol	ONVIF(PROFILE S,PROFILE G)

**P&T dimension drawing**



**Head housing dimension will be customized by the lens**



For More details on customization please contact [bd@prismabytes.com](mailto:bd@prismabytes.com)

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