

## MS7980

### Panoramic + Laser PTZ Speed Dome Camera



### Features

#### Excellent Image Quality

- 360° Panoramic + PTZ Camera (-T850)
- 180° Panoramic + PTZ Camera (-U850)
- 16 Megapixel 12 x 1/1.8" progressive scan CMOS sensor (-T850)
- 8.0 Megapixel 6 x 1/1.8" progressive scan CMOS sensor (-U850)
- UHD 2 x 4096x1800@30fps (-T850)
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.001lux with color picture
- Laser automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

#### Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge

#### Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

#### Large Scale

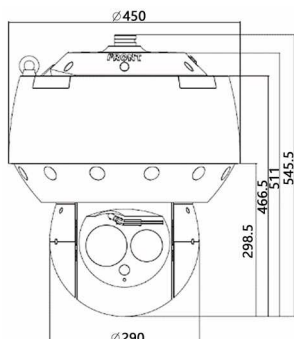
- 50x optical zoom
- Laser distance up to 1500m (-T850)

#### Abundant Functions and Features

- 2 x Micro SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out
- Built-in O-sensor
- Built-in GPS module

### Dimensions

Units: mm



### Specifications

	MS7980-T850-NL	MS7980-U850-NL
<b>Panoramic Camera</b>		
Image Sensor	12 x 1/1.8" progressive scan CMOS	6 x 1/1.8" progressive scan CMOS
Pixels	16 Megapixel	8.0 Megapixel
Compression	H.265 / H.264 / MJPEG	
Image Resolution	Main stream: 2 x 4096x1800 Secondary stream: D1	Main stream: 4096x1800
Frame Rate	Main stream: 2 x 4096x1800@30fps Secondary stream: D1@30fps	Main stream: 4096x1800@30fps
Bitrate	32~16384kbps	
Min. Illumination	Color: 0.005lux @ (F1.6, AGC ON) B/W: 0.0005lux @ (F1.6, AGC ON); 0lux with IR	
Focal Length	4mm	
Angle of View	360°	180°
Shutter Speed	1 ~ 1/30,000s	
Day / Night	Auto (ICR) / Color / B/W	
Wide Dynamic Range	Ultra WDR, >=120dB	
S/N Ratio	>57dB	
White Balance	Auto / Manual	
Gain Control	Auto / Manual	
Backlight Compensation	Off / WDR / BLC / HLC	
<b>PTZ Camera</b>		
Image Sensor	1/1.8" progressive scan CMOS	
Pixels	8.0 Megapixel	
Compression	H.265 / H.264 / MJPEG	
Image Resolution	Main stream: 4K (4096x2160) Secondary stream: D1	
Frame Rate	Main stream: 4K@30fps / 1080p@60fps Secondary stream: D1@30fps	
Bitrate	32~16384kbps	
Min. Illumination	Color: 0.005lux @ (F1.2, AGC ON) B/W: 0.0005lux @ (F1.2, AGC ON); 0lux with IR	
Focal Length	5.7 ~ 285mm, 50x optical	
Zoom Speed	Approx 3s (Optical)	
Angle of View	42° ~ 1.0° (Wide~Tele)	
Min. Object Distance	10 ~ 1500mm (Wide~Tele)	
Focus Control	Auto / Manual / Semi-Automatic	
Shutter Speed	1 ~ 1/30,000s	
Day / Night	Auto (ICR) / Color / B/W	
Wide Dynamic Range	Ultra WDR, >=120dB	
S/N Ratio	>57dB	
White Balance	Auto / Manual	
Gain Control	Auto / Manual	
Backlight Compensation	Off / WDR / BLC / HLC	
<b>Laser</b>		
Laser Distance	1500m	1000m
Laser Intensity	Automatically adjust according to zoom ratio	
<b>PTZ Camera Pan and Tilt</b>		
Pan / Tilt Range	360° Endless / -20° ~ 90° (Auto Flip)	
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 240°/s; Pan preset speed: 240°/s Tilt manual speed: 0.1° ~ 200°/s; Tilt preset speed: 200°/s	
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples	
Presets	256	
Patrol	8 Patrols scheme, up to 32 presets per patrol	
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path	
Power-off Memory	Power-off memory / Power-on recovery	
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan	
PT Limit	Manual / Scan / Pan	
3D Positioning	PTZ control with mouse click and drag	
Electronic compass	Built-in O-sensor	
<b>Video</b>		
Bitrate Control	VBR / CBR	
Multi-stream	Supported	
Caption	Date and time / Alarm / Direction / Customized	
<b>Audio</b>		
Compression	G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726	
Bitrate	32kbps ~ 64kbps	
Audio Function	Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute	
<b>Network</b>		
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)	
User Interface	IPC Control (IE, Firefox, Chrome)	
Max. User Access	Max. 20 Users (includes 2 internal)	
Location Technology	GPS	
Application Programming	ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI	
Automatic Network Replenishment (ANR)	Supported	
<b>Alarm</b>		
Alarm Triggers	Alarm input / Network disconnect / Disk full / Disk error	
Intelligent	Motion detection / Tampering / Guard line / Enter guard area / Exit guard area / Object left / Object removal / Gathering / Audio surge	
Alarm Events	Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm	
<b>Interfaces</b>		
Ethernet	10/100M, RJ45 interface	
Fiber	1000M, FC interface, Single-mode	
GPS	Built-in GPS module	
Audio In / Out	1 x Line in / 1 x Line out	
Control	1 x RS485	
Alarm In / Out	8 x Input / 2 x Output	
Memory Slot	Built-in 2 x SD card (optional), supports up to 256GB/slot	
<b>Environmental</b>		
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F	
Operating Humidity	10% ~ 95%	
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection	
<b>Electrical</b>		
Power	48V DC ± 25% (Power Adapter Included)	
Power Consumption	Max. 120W (IR on)	
<b>Mechanical</b>		
Weight	40 kg / 88.2lb (Gross Weight)	
Dimensions	Φ290 × 545.5mm / Φ11.4" × 21.47"	