### Long Range Laser PTZ Camera

PTZS-5085/5045/ 9025/6825/5025

### **Key Features:**











2MP~8MP

50~90X

Smart Event

Starlig

Laser II



- > Max 19-275mm HD IR-Corrected Zoom Lens
- > 2MP, 4MP, 5MP or 8MP High-Resolution CMOS Sensor
- > HD Lens with 50X, 68X or 90X Optical Zoom
- > 640×480 12µm uncooled Thermal Imager
- > Numerous Thermal Lens and Sensor Options Available
- > 7.5° to 37° Thermal HFOV, Depending on Lens and Sensor
- Optional Laser Illumination for up to 2.5km of High Definition Imaging in Complete Darkness
- > Endless 360° Rotation Pan/Tilt with Speeds from 0.01–90°/s
- > Rugged IP66 and -40° to +65°C with Anti-Corrosion Finish
- > Integrated Optical Fog Filter on select models

### **Application Scenarios**

Most of Security &s; Surveillance projects. To security the Coast, and Sea plane. Some National defense equipment. Forest Fire Detection; Unmanned Aerial Vehicle, Fixed-wing aircraft. Peak point, need to security full Area. Medical Device with low time zoom. Most of Safe City Projects.

### **Optional Features:**

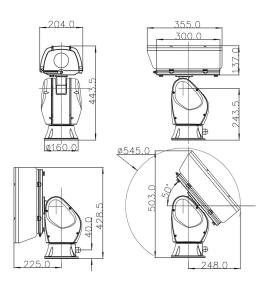
- > 5km Laser Rangefinder
- > 640×480, 1280×1024 HD Cooled Thermal
- > HD SWIR Camera
- > GPS for Accurate Positioning
- > Gyro Stabilization
- > Many Other Customizations Available

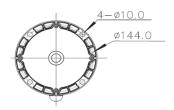
### FTD-PTZS-5085





### **DIMENSIONS** (Unit - mm)





Camera	
Max. Resolution	3840x2160
Image Sensor	1/1.8" Sony progressive scan CMOS
Min. Illumination	Color: 0.0005 Lux @ (F1.4, AGC ON), B/W: 0.0001 Lux@(F1.4, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/30000 s
Day & Night	IR cut filter
Zoom	50x optical, 16x digital
Lens	
Focal Length	6.0mm ~ 300mm
FOV	Horizontal field of view: 63.39° ~ 1.74°
Aperture	F1.4-F4.7
Focus	Auto, semi-auto, manual
Close Focus Distance	$0.1  ext{m} \sim 1.5  ext{m}$ (Wide $\sim$ Tele)
Illuminator	
Supplement Light Type	Laser
Supplement Light Range	Laser Distance: up to 3000 m
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-45° to 90° (auto flip)
Pan Speed	Pan speed: configurable from 0.1° to 100°/s; preset speed: 100°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 50°/s, preset speed 50°/s
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Presets	250
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan
Video	
Main Stream	Main Stream: 30/25fps(3840x2160); 1080P@25/30fps; 720P@25/30fps
Streaming	Triple Streaming
Video Compression	H.265/H.264+/H.264
Video Bit Rate	32 kbps to 16384 kbps
Region of Interest (ROI)	4 fixed regions for each stream
Audio	
Video Bit Rate	32kMbps ∼ 16Mbps
Audio Compression	AAC/MP2L2
Network	
Network Storage	NAS
Protocols	ONVIF, GB28181 IPv4/IPv6, HTTPs, HTTP, RTSP, RTP, TCP, UDP, PPPoE, DDNS, TCP/IP,
User/Host	SNMP, QoS, 802.1x, Bonjour, FTP  Up to 20 users, 3 user levels: administrator, Onvif user, and online user
Security	Password protection, complicated password, HTTPS encryption,
Web Browser	IE11, Chrome 57+, Firefox 52+
Image	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
WDR	
	120 dB
Defog	Optical Defog
Exposure Model	Auto/Manual/Aperture Priority/Shutter Priority/Gain Priority
S/N Ratio	≥ 55dB(AGC Off, Weight ON)
Image Stabilization	Electronical Image Stabilisation (EIS)
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by
	client software or web browser
Interface	
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot, support microSD up to 256 GB
Alarm	1 inputs, 1 output
Audio	1 input (line in), max. 1 output (line out)
	i input (into in), max. I output (into out)
Event	
Basic Event	Motion detection, video tampering alarm, alarm input and output
Smart Event	Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exiting
	Fast Moving, Human Detection, Vehicle Detection
Alarm Linkage	Email, Snapshot, Recording, Alarm Out
General	
Power	24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)
Operating Condition	-40°C to 60 °C. Humidity 90% or less (non-condensing)
Dimension	L355.0mm×W204.0mm×H443.5mm
Weight	Approx. 8 kg
Protection	IP66, IK10, TVS 4000V lightning protection, surge protection and voltage transient protection
Wiper	Support

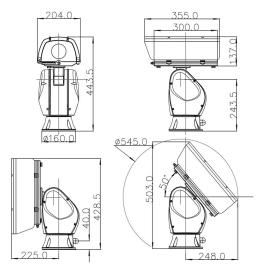
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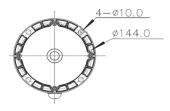
## FTD-**PTZ**S-**504**5





### **DIMENSIONS** (Unit - mm)





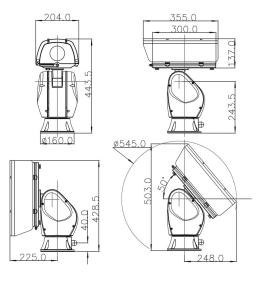
Camera	
Max. Resolution	2688x1520
Image Sensor	1/1.8" Sony progressive scan CMOS
Min. Illumination	Color: 0.0005 Lux @ (F1.4, AGC ON), B/W: 0.0001 Lux@(F1.4, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/30000 s
Day & Night	IR cut filter
Zoom	50x optical, 16x digital
Lens	
Focal Length	6.0mm ~ 300mm
FOV	Horizontal field of view: 63.39° ~ 1.74°
Aperture	F1.4-F4.7
Focus	Auto, semi-auto, manual
Close Focus Distance	0.1m $\sim$ 1.5m (Wide $\sim$ Tele)
Illuminator	
Supplement Light Type	Laser
Supplement Light Range	Laser Distance: up to 3000 m
	Laser Distance, up to 3000 III
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-45° to 90° (auto flip)
Pan Speed	Pan speed: configurable from 0.1° to 100°/s; preset speed: 100°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 50°/s, preset speed 50°/s
Presets	250
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan
Video	
Main Stream	Main Stream: 30/25fps (2688x1520); 1080P@25/30fps; 720P@25/30fps
Streaming	Triple Streaming
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Video Compression	H.265/H.264+/H.264
Video Bit Rate	32 kbps to 16384 kbps
Region of Interest (ROI)	4 fixed regions for each stream
Audio	
Video Bit Rate	$32$ kMbps $\sim$ 16Mbps
Audio Compression	AAC/MP2L2
Network	
Network Storage	NAS
Protocols	ONVIF, GB28181 IPv4/IPv6, HTTPs, HTTP, RTSP, RTP, TCP, UDP, PPPoE, DDNS, TCP/IP,
User/Host	SNMP, QoS, 802.1x, Bonjour, FTP  Up to 20 users, 3 user levels: administrator, Onvif user, and online user
Security	Password protection, complicated password, HTTPS encryption,
Web Browser	IE11, Chrome 57+, Firefox 52+
Image	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
WDR	120 dB
Defog	Optical Defog
Exposure Model	Auto/Manual/Aperture Priority/Shutter Priority/Gain Priority
S/N Ratio	≥ 55dB (AGC Off, Weight ON)
Image Stabilization	Electronical Image Stabilisation (EIS)
Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by
	client software or web browser
Interface	
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot, support microSD up to 256 GB
Alarm	1 inputs, 1 output
Audio	1 input (line in), max. 1 output (line out)
Event	
	Motion detection, video tampering alarm, alarm input and output
Basic Event	
	Line Crossing, Area Intrusion, Unattended Object, Object Missing. Region Entrance. Region Exit
Smart Event	Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exit Fast Moving, Human Detection, Vehicle Detection
Smart Event	Fast Moving, Human Detection, Vehicle Detection
Smart Event Alarm Linkage	Fast Moving, Human Detection, Vehicle Detection
Smart Event Alarm Linkage General	Fast Moving, Human Detection, Vehicle Detection Email, Snapshot, Recording, Alarm Out
Smart Event Alarm Linkage General Power	Fast Moving, Human Detection, Vehicle Detection Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)
Smart Event Alarm Linkage General Power Operating Condition	Fast Moving, Human Detection, Vehicle Detection Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)  -40°C to 60 °C. Humidity 90% or less (non-condensing)  L355.0mm×W204.0mm×H443.5mm
Smart Event Alarm Linkage General Power Operating Condition Dimension	Fast Moving, Human Detection, Vehicle Detection Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)  -40°C to 60 °C. Humidity 90% or less (non-condensing)

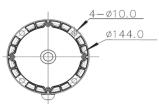
## FTD-PTZS-9025





### **DIMENSIONS** (Unit - mm)





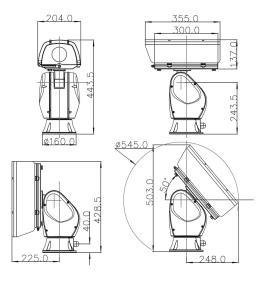
Max. Resolution Image Sensor	
	4020*4090
Image Sensor	1920*1080
	1/1.8" Sony progressive scan CMOS
Min. Illumination	Color: 0.0005 Lux @ (F1.4, AGC ON), B/W: 0.0001 Lux@(F1.4, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/30000 s
Day & Night	IR cut filter
Zoom	90x optical, 16x digital
	SOX Optical, Tox digital
Lens	
Focal Length	6.0mm ~ 540mm
FOV	Horizontal field of view: 63.39° ~ 1.74°
Aperture	F1.4-F4.7
Focus	Auto, semi-auto, manual
Close Focus Distance	0.1m ~ 1.5m (Wide ~ Tele)
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Illuminator	
Supplement Light Type	Laser
Supplement Light Range	Laser Distance: up to 3000 m
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-45° to 90° (auto flip)
Pan Speed	Pan speed: configurable from 0.1° to 100°/s; preset speed: 100°/s
•	
Tilt Speed	Tilt speed: configurable from 0.1° to 50°/s, preset speed 50°/s
Presets	250
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan
Video	
	H : Ot
Main Stream	Main Stream: 1080P@25/30fps; 720P@25/30fps
Streaming	Triple Streaming
Video Compression	H.265/H.264+/H.264
Video Bit Rate	32 kbps to 16384 kbps
Region of Interest (ROI)	4 fixed regions for each stream
Audio	
	22hMhna - 46Mhna
Video Bit Rate	32kMbps ∼ 16Mbps
Audio Compression	AAC/MP2L2
Network	
Network Storage	NAS
Protocols	ONVIF, GB28181 IPv4/IPv6, HTTPs, HTTP, RTSP, RTP, TCP, UDP, PPPoE, DDNS, TCP/IP,
	SNMP, QoS, 802.1x, Bonjour, FTP
User/Host	Up to 20 users, 3 user levels: administrator, Onvif user, and online user
Security	Password protection, complicated password, HTTPS encryption,
Web Browser	IE11, Chrome 57+, Firefox 52+
Image	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
WDR	120 dB
Defog	Optical Defog
	Auto/Manual/Aperture Priority/Shutter Priority/Gain Priority
Exposure Model	≥ 55dB (AGC Off, Weight ON)
Exposure Model S/N Ratio	
S/N Ratio	Electronical Image Stabilisation (EIS)
S/N Ratio Image Stabilization	Electronical Image Stabilisation (EIS) Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by
S/N Ratio	· · · ·
S/N Ratio Image Stabilization	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by
S/N Ratio Image Stabilization Image Settings	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by
S/N Ratio Image Stabilization Image Settings Interface	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port Built-in memory card slot, support microSD up to 256 GB
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port Built-in memory card slot, support microSD up to 256 GB 1 inputs, 1 output
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port Built-in memory card slot, support microSD up to 256 GB
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port Built-in memory card slot, support microSD up to 256 GB 1 inputs, 1 output
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port Built-in memory card slot, support microSD up to 256 GB 1 inputs, 1 output 1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port Built-in memory card slot, support microSD up to 256 GB 1 inputs, 1 output 1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage General	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitir Fast Moving, Human Detection, Vehicle Detection  Email, Snapshot, Recording, Alarm Out
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage General Power Operating Condition	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection  Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)  -40°C to 60 °C. Humidity 90% or less (non-condensing)
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage General Power Operating Condition Dimension	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection  Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)  -40°C to 60 °C. Humidity 90% or less (non-condensing)  L355.0mm×W204.0mm×H443.5mm
S/N Ratio Image Stabilization Image Settings Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage General Power Operating Condition	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection  Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)  -40°C to 60 °C. Humidity 90% or less (non-condensing)

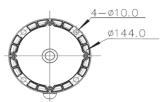
## FTD-PTZS-6825





### **DIMENSIONS** (Unit - mm)





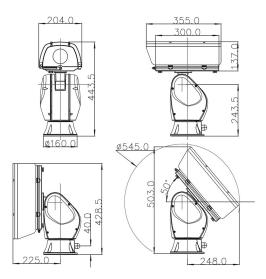
Camera	
Max. Resolution	1920*1080
Image Sensor	1/1.8" Sony progressive scan CMOS
Min. Illumination	Color: 0.0005 Lux @ (F1.4, AGC ON), B/W: 0.0001 Lux@(F1.4, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/30000 s
Day & Night	IR cut filter
Zoom	68x optical, 16x digital
Lens	
Focal Length	6.0mm ~ 408mm
FOV	Horizontal field of view: 63.39° ~ 1.74°
Aperture	F1.4-F4.7
Focus	Auto, semi-auto, manual
Close Focus Distance	0.1m ~ 1.5m (Wide ~ Tele)
Illuminator	0.1111 1.011 (Was 1010)
	Lanar
Supplement Light Type	Laser
Supplement Light Range	Laser Distance: up to 3000 m
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-45° to 90° (auto flip)
Pan Speed	Pan speed: configurable from 0.1° to 100°/s; preset speed: 100°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 50°/s, preset speed 50°/s
Presets	250
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Scheduled Task	
	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan
Video	
Main Stream	Main Stream: 1080P@25/30fps; 720P@25/30fps
Streaming	Triple Streaming
Video Compression	H.265/H.264+/H.264
Video Bit Rate	32 kbps to 16384 kbps
Region of Interest (ROI)	4 fixed regions for each stream
Audio	
Video Bit Rate	32kMbps ∼ 16Mbps
Audio Compression	AAC/MP2L2
Network	
Network Storage	NAS
Protocols	ONVIF, GB28181 IPv4/IPv6, HTTPs, HTTP, RTSP, RTP, TCP, UDP, PPPoE, DDNS, TCP/IP,
	SNMP, QoS, 802.1x, Bonjour, FTP
User/Host	Up to 20 users, 3 user levels: administrator, Onvif user, and online user
Security	Password protection, complicated password, HTTPS encryption,
Web Browser	IE11, Chrome 57+, Firefox 52+
Image	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
WDR	120 dB
Defog	Optical Defog
Exposure Model	Auto/Manual/Aperture Priority/Shutter Priority/Gain Priority
S/N Ratio	≥ 55dB (AGC Off, Weight ON)
	Electronical Image Stabilisation (EIS)
Image Stabilization	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by
Image Settings	client software or web browser
Image Settings Interface	client software or web browser
	client software or web browser  1 RJ45 10M/100M self-adaptive Ethernet port
Interface	
Interface Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Interface Ethernet Interface On-board Storage	1 RJ45 10M/100M self-adaptive Ethernet port     Built-in memory card slot, support microSD up to 256 GB
Interface Ethernet Interface On-board Storage Alarm Audio	RJ45 10M/100M self-adaptive Ethernet port     Built-in memory card slot, support microSD up to 256 GB     inputs, 1 output
Ethernet Interface On-board Storage Alarm Audio Event	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)
Ethernet Interface On-board Storage Alarm Audio Event Basic Event	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output
Ethernet Interface On-board Storage Alarm Audio Event	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)
Ethernet Interface On-board Storage Alarm Audio Event Basic Event	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin
Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection
Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection
Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage General Power	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection  Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)
Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage General Power Operating Condition	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection  Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)  40°C to 60 °C. Humidity 90% or less (non-condensing)
Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage General Power Operating Condition Dimension	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection  Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)  -40°C to 60 °C. Humidity 90% or less (non-condensing)  L355.0mm×W204.0mm×H443.5mm
Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage General Power Operating Condition Dimension Weight	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection  Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)  -40°C to 60 °C. Humidity 90% or less (non-condensing)  L355.0mm×W204.0mm×H443.5mm  Approx. 8 kg
Interface Ethernet Interface On-board Storage Alarm Audio Event Basic Event Smart Event Alarm Linkage General Power Operating Condition Dimension	1 RJ45 10M/100M self-adaptive Ethernet port  Built-in memory card slot, support microSD up to 256 GB  1 inputs, 1 output  1 input (line in), max. 1 output (line out)  Motion detection, video tampering alarm, alarm input and output  Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exitin Fast Moving, Human Detection, Vehicle Detection  Email, Snapshot, Recording, Alarm Out  24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)  -40°C to 60 °C. Humidity 90% or less (non-condensing)  L355.0mm×W204.0mm×H443.5mm

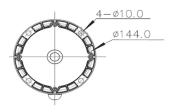
# FTD-PTZS-5025





### **DIMENSIONS** (Unit - mm)





Camera	
Max. Resolution	1920*1080
Image Sensor	1/1.8" Sony progressive scan CMOS
Min. Illumination	Color: 0.0005 Lux @ (F1.4, AGC ON), B/W: 0.0001 Lux@(F1.4, AGC ON), 0 Lux with IR
	1/3 s to 1/30000 s
Shutter Speed	
Day & Night	IR cut filter
Zoom	50x optical, 16x digital
Lens	
Focal Length	6.0mm ~ 300mm
FOV	Horizontal field of view: 63.39° ~ 1.74°
Aperture	F1.4-F4.7
Focus	Auto, semi-auto, manual
Close Focus Distance	0.1m $\sim$ 1.5m (Wide $\sim$ Tele)
Illuminator	
Supplement Light Type	Laser
	Laser Distance: up to 3000 m
Supplement Light Range	Laser Distance, up to 3000 III
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-45° to 90° (auto flip)
Pan Speed	Pan speed: configurable from 0.1° to 100°/s; preset speed: 100°/s
Tilt Speed	Tilt speed: configurable from 0.1° to 50°/s, preset speed 50°/s
Presets	250
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Scheduled Task	Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan
Video	
Main Stream	Main Stream: 1080P@25/30fps; 720P@25/30fps
	Triple Streaming
Streaming	
Video Compression	H.265/H.264+/H.264
Video Bit Rate	32 kbps to 16384 kbps
Region of Interest (ROI)	4 fixed regions for each stream
Audio	
Video Bit Rate	32kMbps $\sim$ 16Mbps
Audio Compression	AAC/MP2L2
Network	
Network Storage	NAS
Protocols	ONVIF, GB28181 IPv4/IPv6, HTTPs, HTTP, RTSP, RTP, TCP, UDP, PPPoE, DDNS, TCP/IP,
	SNMP, QoS, 802.1x, Bonjour, FTP
User/Host	Up to 20 users, 3 user levels: administrator, Onvif user, and online user
Security	Password protection, complicated password, HTTPS encryption,
Web Browser	IE11, Chrome 57+, Firefox 52+
Image	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
WDR	120 dB
Defog	Optical Defog
Exposure Model	Auto/Manual/Aperture Priority/Shutter Priority/Gain Priority
S/N Ratio	≥ 55dB (AGC Off, Weight ON)
Image Stabilization	Electronical Image Stabilisation (EIS)
	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by
Image Settings	client software or web browser
Interface	
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-board Storage	Built-in memory card slot, support microSD up to 256 GB
Alarm	1 inputs, 1 output
Audio	1 input (line in), max. 1 output (line out)
Event	
Basic Event	Motion detection, video tampering alarm, alarm input and output
	Line Crossing, Area Intrusion, Unattended Object, Object Missing, Region Entrance, Region Exiting
Smart Event	Fast Moving, Human Detection, Vehicle Detection
Alarm Linkage	Email, Snapshot, Recording, Alarm Out
General	
Power	24 VAC/6A, max. 98 W (including max. 88W/98W IR) 802.3bt (PoE++)
Operating Condition	-40°C to 60 °C. Humidity 90% or less (non-condensing)
· · · · · · · · · · · · · · · · · · ·	L355.0mm×W204.0mm×H443.5mm
Dimension	
	Approx. 8 kg
Weight	Approx. 8 kg
Dimension Weight Protection Wiper	Approx. 8 kg IP66, IK10, TVS 4000V lightning protection, surge protection and voltage transient protection Support

# ABOUT FENGTAIDA

Fengtaida is a pioneering and forward-looking manufacturer founded in 2009 in Shenzhen. We are a leading global provider of custom embedded ptz systems and custom Autofocus-zoom block camera and thermal image camera. In addition to our abilities in designing custom ptz system hardware, our software development expertise and our experience in efficient prototyping and manufacturing, we are supported by private custom housing and configuration capabilities and extensive testing facilities to provide a one-stop-shop for system design and build.

### **Skills and Capabilities at Fengtaida**

#### System / Hardware design skills and capabilities

#### System level design

- ✓ Definition of the architecture, the logical and the physical design of the ptz cameras
- √ 3D mechanical design

#### Schematics & PCB design

- Component selection and optimal solution
- ✓ High-speed camera designs
- $\checkmark$  PCB board for ptz system
- ✓ Autofocus-zoom block camera
- ✓ multiple video output options

#### **Prototyping**

- ✓ Fast turn-around on PCB and assembly prototyping
- ✓ Fast turn-around on prototyping for mechanical parts
- ✓ Scale modelling using CAD data e.g. 3D printing (Rapid Prototyping)

#### Software development and applications

- ✓ Optical zoom modues system software
- ✓ optimal solution API design and implementation
- ✓ Application software for custom embedded systems
- Modification of firmware to suit specific applications
- ✓ Customized video Artificial intelligence Behavior analysis

### Manufacturing, testing and supply chain management

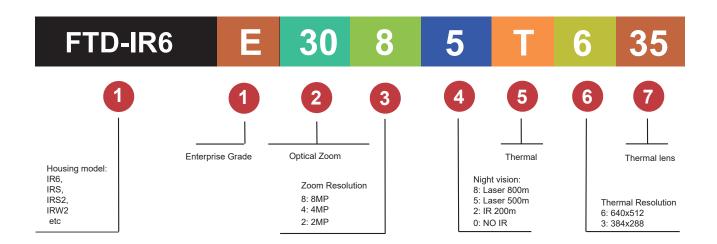
- ✓ Manufacturing of ptz cameras
- ✓ Inspection of each step and final system assembly
- ✓ Thorough testing of the final products managed
- ✓ Additional specialist test facilities
- Supply chain management and stock holding of all components



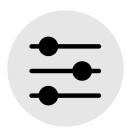
Navy Blue: Do things rigorously and rationally

Orange: Do things Passionately

# ABOUT MODEL NAME



### WHY CHOOSE US



### **Customized**

Customization enables easier integration into your security system and brings the ability to add custom functionality that is unique to your system.



### Cybersecurity

To ensure a fully managed and secure end-to-end cybersecurity solution, Partners have full control product.



### 2 Year Warranties

We back our camera with a 2-year warranty for hardware.



### ISO9001:2015

It helps products to improve performance and follow the globally recognized standard



### **Onvif Profile**

ONVIF Profile S, T, M and G compliance allows for easy integration with third-party cameras and VMS