



## Ultra-Long Range HD PTZ - DUAL Sensor (Thermal & HD IP)

### Key Features

- Adopt zoom thermal technology, image clear
- Dual-stream function, short delay time; fully satisfy different network environment during practical applications
- Rich network protocol and good network adaptability, can satisfy all kinds of network environment
- Low power consumption, small heat, stable performance
- Professional shell design, smart shape and low weight, can bear high temperature, anti-corrosion, water resistance and acid rain resistance



FS-UL3028AFUH195R high definition IP thermal camera is a camera with independent intellectual property rights. The device has two operation mode: daytime mode and night time mode. In daytime mode it use HD camera to show image while at night time it use thermal camera to show image.

When use thermal camera to show image, the effect is good with clear image. It cannot be restricted by lighting source. HD camera's detection distance is 6000m; while thermal camera's detection distance is 5000m.

This product adopts many key technologies on the material and process and special sealing reinforcement. The shell adopts the high intensive aluminum and stainless steel, which can be widely used in many occasions such as night, harsh environment, long distance, large scope and hidden real-time monitoring

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### Specifications

Distance	Visible light Camera	5000m-6000m		
	Thermal Camera	Target	Human(1.8m×0.5m)	Vehicle (2.3m×2.3m)
		Detection	5040m	14400m
		Recognition	1260m	3600m
		Identification	630m	1800m
Visible light camera	Focal length	12.5~750mm		
	FOV	0.6°~35°		
	Auto iris	DC drive		
	Auto focus	Supporting		
	Sensor	1/1.8"Progressive Scan CMOS		
	Color mode	ICR double filter, day&night switch		
	Shutter speed	Auto and manual adjustment		
	Camera control	Auto gain control, auto white balance, supporting manual and auto day& night mode switch		
	Fog penetrating	Open / Close is optional		
	WDR	Open / Close is optional		
	BLC	Open/Close is optional; range is optional		
	ROI	Supporting Open/Close, range is optional		
	Back focus fine adjustment	Supporting, can remotely debug		
	Noise reduction	3D digital noise reduction		
	Code format	H.264/MJPEG/MPEG4		
	Video resolution	1080p, supporting three stream		
	Video code rate	32Kbps~16Mbps		
	Video frame rate	50Hz:25fps(1920×1080),25fps (1280×720) 60Hz:30fps(1920×1080),30fps (1280×720)		
	Title overlay	Logo, date, time		
	Image adjustment	Brightness, contrast, saturation, sharpness etc.		
Network protocol	TCP/IP/RTP/RTSP/HTTP/DNS/DDNS/DHCP/FTP/NTP/PPPOE/ SMTP/U PNP			
Features	Supporting heartbeat, video cover, code protection			
Thermal camera	Detector Type	Uncooled microbolometer Focal array detector, VOx		
	Pixel	640×512		
	Spectrum Range	8~14μm		
	NETD	≤50mK@F1.0, 300K		
	Focal lenth	36~180mm		
	FOV	3.5°×2.8°~17.2°×13.6°		
	IFOV	0.47~0.09mrad		

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Thermal camera	Lens control	Electronic zoom/focus, auto focus
	Image process	DDE, 10 Pseudo Color
Pantilt	Load	50kg (top mounted)
	Pan angle	360°, continuous rotation
	Tilt angle	-45°~+45°
	Pan speed	0.01°~ 12°/s
	Tilt speed	0.01°~8°/s
	Preset	255
	Preset precision	±0.1°
	Auto cruise	2 path, 64 presets each path
	Auto line scan	1 path
	Communication protocol	Pelco-D, Pelco-P optional
	Bit rate	2400/4800/9600/19200 bps optional
	Anti-lightning	Power supply 4000V, video signal 2000V
Interface	Power	DC30V
	Internet	1×10Base-T/100Base-TX, RJ45 interface
Environment	Operation temperature	-25°C~+55°C
	Storage temperature	-40°C~+65°C
	International protection	IP66
	Salt fog proof	PH6.5~7.2, Continuously spraying 48 hours
Power	Whole power supply	DC30V±1.0%, accompanied with 220VAC~30VDC wide range power adapter
	Power consumption	≤130W
Physics	Weight	≤60kg
	Installation	Outdoor base installation