

Introduction

F-SC431 is a large size HD Speed Dome Camera, can do 360° pan and 90° tilt precisely. Up to 255 preset patrolling positions and scheduled PTZ tasks allowed users to monitor the different areas. Speed Dome Camera can be customized to add multiple IoT interfaces such as RS232, RS485, I/O, Relay, Analog Input and, etc. To provides an all-in-one IoT surveillance solution to save your resource as well as improve system integration.



High Performance

- 30X AF Lens, keep the clarity and focus on the correct objects rapidly
- Super WDR, up to 140dB wide dynamic range
- Endless 360° pan and 90° tilt precise movement
- Video analysis function (Optional), like people counting, water gauge reading, etc.
- H.265, optimized in bit rate, bandwidth, and storage usage, 50% off than H.264.
 - Support remote management & upgrade



- WDT Watchdog design to ensure system stability
- Adopt a complete anti-drop mechanism
- Built-in 1.5KV electromagnetic isolation protection for Ethernet interface
- RS232/RS485 interface power and data isolation with CSA, UL and IEC standards
- Built-in reverse phase protection and over voltage protection for power interface



- Standard RS232/RS485 and Ethernet interfaces
- Support MQTT, Modbus RTU, ONVIF Profile S, and other protocols.
- Easy to use, flexible, multiple working mode options

Standard & Convenience



Speed Dome IP Camera





- Wide range operating temperature (-35°C~75°C)
- SONY top-level CMOS sensor
- Metal casing, protection grade IP67. Metal housing and system safety isolation

F-SC431

Industrial-grade components

Product Specification

Camera				
Model	F-SC431			
Items	Contents			
Image Sensor	1/2.8" Progressive Scan CMOS			
Resolution	2MP			
Min. Illumination	Color: 0.002Lux@F1.2			
	B/W: 0Lux with IR on			
WDR	Super WDR up to 140dB			
Lens	AF Motorized Lens			
	4.7~141mm @F1.5~F4.0, 30x Optical Zoom			
Zoom Speed	4s			
Field of View	H62°~H3°/D70°~D3°/V37°~V1°			
Shutter Time	1/100000s~1s			
IR Distance	Up to 150m			
Day & Night	ICR Filter Auto Switch			
Video				
Items	Contents			
Max. Image Resolution	1920×1080			
Primary Stream	30fps @ (1920×1080,1280×960,1280×720, 704x576)			
Secondary Stream	30fps @ (704x576, 640×480, 640×360, 352x288, 320x240, 320x192, 320x176)			
Tertiary Stream	30fps @ (1920×1080, 1280×720, 704×576, 640×480, 640×360, 320×240, 320x192, 320x176)			
Video Compression	H.265(HEVC)/H.264/MJPEG			
Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)			
Image Setting	Brightness/Contrast/Saturation/Sharpness			



Speed Dome IP Camera F-SC431



PTZ				
Items	Contents			
Pan Range	360° endless			
Pan Speed	Pan Manual Speed: 0.5°~180°/s, Pan Preset Speed: 240°/s			
Tilt Range	0°~90°			
Tilt Speed	Tilt Manual Speed: 0.5°~120°/s, Tilt Preset Speed: 200°/s			
Preset Quantity	255			
Patrol	8 Patrols, up to 48 presets each patrol			
Pattern	4 Patterns			
PTZ Position Display	ON/OFF			
Support Function	Proportional Zoom, Preset Freezing, Power Off Memory			
Network				
Items	Contents			
Ethernet	1*RJ45 10M/100M Ethernet Port			
Network Storage	NAS (Support NFS, SMB/CIFS)			
Protocol	IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DHCP, NTP, SNMP, NFS, CIFS			
System				
System Items	Contents			
	Contents Support microSD/SDHC/SDXC Card Local Storage, up to 512G			
Items	Support microSD/SDHC/SDXC Card Local Storage, up to 512G Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog,			
Items Storage Advanced Function	Support microSD/SDHC/SDXC Card Local Storage, up to 512G Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog, White Balance, EIS, IP Address Filtering			
ltems Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 512G Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog,			
Items Storage Advanced Function Event Trigger Event Action	Support microSD/SDHC/SDXC Card Local Storage, up to 512G Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog, White Balance, EIS, IP Address Filtering Motion Detection, Network Disconnection, External Input, etc.			
Items Storage Advanced Function Event Trigger	Support microSD/SDHC/SDXC Card Local Storage, up to 512G Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog, White Balance, EIS, IP Address Filtering Motion Detection, Network Disconnection, External Input, etc. FTP Upload/SMTP Upload/SD Card Record			
Items Storage Advanced Function Event Trigger Event Action	Support microSD/SDHC/SDXC Card Local Storage, up to 512G Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog, White Balance, EIS, IP Address Filtering Motion Detection, Network Disconnection, External Input, etc. FTP Upload/SMTP Upload/SD Card Record Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing,			
Items Storage Advanced Function Event Trigger Event Action	Support microSD/SDHC/SDXC Card Local Storage, up to 512G Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog, White Balance, EIS, IP Address Filtering Motion Detection, Network Disconnection, External Input, etc. FTP Upload/SMTP Upload/SD Card Record Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting, Object Left, Object Removed (* In development)			
Items Storage Advanced Function Event Trigger Event Action	Support microSD/SDHC/SDXC Card Local Storage, up to 512G Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog, White Balance, EIS, IP Address Filtering Motion Detection, Network Disconnection, External Input, etc. FTP Upload/SMTP Upload/SD Card Record Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting, Object Left, Object Removed (* In development) ONVIF Profile S			
ItemsStorageAdvanced FunctionEvent TriggerEvent ActionVideo Analysis (Optional)	Support microSD/SDHC/SDXC Card Local Storage, up to 512G Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog, White Balance, EIS, IP Address Filtering Motion Detection, Network Disconnection, External Input, etc. FTP Upload/SMTP Upload/SD Card Record Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting, Object Left, Object Removed (* In development) ONVIF Profile S GB/T28181-2016			



Tel: 400-8838-199 Web: www.fourfaith.com

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Speed Dome IP Camera F-SC431



Interfaces (* = Optional)			
Items	Contents		
DC-12V IN*	1, Support 802.AT(POE Version)		
Audio I/O @ Audio Compression*	1/1&G.711/AAC		
Alarm In*	1		
Alarm Out*	1 (Port can Drive 12V or 5V Relay)		
Relay Out*	1		
Power Return Out*	12V@500MA or 5V@1000MA		
ADC In*	1 @ 8bit		
UART Port*	1 x RS232/RS485		
General			
Items	Contents		
Working Temperature	-35°C~75°C		
Working Humidity	0~90% (Non-condensing)		
Power Supply	PoE (802.3at)		
Barran Orana anti-	10W MAX		
Power Consumption	30W MAX (With IR on)		
Protection Level	Up to IP67-rated for Weather-resistant Performance		
Waisht	5.2kg (Junction Box Version)		
Weight	4.2kg (Cable Out Version)		
Dimensions	Ф204.8mmX308mm		



Speed Dome IP Camera F-SC431



Topology



Dimension (mm)



Note: There may be differences between models of accessories and interfaces, actual products shall prevail



Speed Dome IP Camera



Accessories (Optional)

F-SC431 Junction Box



Weight: 1000g Dimensions: 230*170*290 mm 1 x Cable Connector IP67 Protection

F-SC431

Order Information

Models	Megapixel	Lens	Description
F-SC431-230	2MP	30X AF Motorized Lens	SD, DC&POE

Naming Convention



