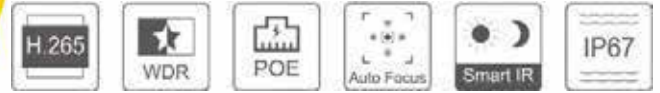


# 5G/4G IoT HD Bullet Network Camera



## KEY FEATURES

- ◆ H.265 , optimized in bit rate, bandwidth and storage usage, 50% off than H.264.
- ◆ Super WDR , up to 140dB wide dynamic range ensure all the bright and dark areas are well presented.
- ◆ IP67 , industrial level protection, provides solid stability and durability.
- ◆ 12X/16X AF Lens , keep the clarity and focus on the correct objects rapidly, deliver the high-quality image.



### IoT Integration

The camera can be integrated with most common IoT interface such as RS232, RS485, I/O, Relay, Analog Input, provides an all-in-one IoT surveillance solution.



### RTU Function, Support Various IoT Protocol

Embedded RTU function allow user to do active acquisition from sensors. Support various IoT industrial protocol and standard, use internal MCU to do linkage control.



### 5G High-Speed Cellular Network

Compatible with 4G or 5G high-speed Cellular module, install the camera in any flexible location and remote monitoring from anywhere wirelessly.

## SPECIFICATION

Model	F-SC241-21 (Fixed Lens)	F-SC241-216 (16X)
<b>CAMERA</b>		
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	

Model	F-SC241-21 (Fixed Lens)	F-SC241-216 (16X)
<b>CAMERA</b>		
<b>Lens</b>	Fixed Lens 2.8mm @F2.0	16X AF Motorized Lens 5.85~93.6mm @F1.8~F3.9
<b>Field of View</b>	H123°/D142°/V68°	H55.4°~H3.55° D62.6°~D4.05° V31.6°~V2°
<b>Shutter Time</b>	1/100000s~1/5s	
<b>IR Distance</b>	150m	
<b>Day &amp; Night</b>	ICR Filter Auto Switch	
<b>VIDEO</b>		
<b>Max. Image Resolution</b>	1920×1080	
<b>Primary Stream</b>	30fps@(1920×1080, 1280×960,1280×720, 704x576)	
<b>Secondary Stream</b>	30fps@(704x576, 640×480, 640×360, 352x288, 320x240, 320x192, 320x176 )	
<b>Tertiary Stream</b>	30fps@(1920×1080, 1280×720, 704×576, 640×480, 640×360, 320×240, 320x192, 320x176 )	
<b>Video Compression</b>	H.265(HEVC)/H.264/MJPEG	
<b>Bit Rate</b>	16Kbps~16Mbps (CBR/VBR Adjustable)	
<b>Image Setting</b>	Brightness/Contrast/Saturation/Sharpness	
<b>NETWORK</b>		
<b>Ethernet</b>	1*RJ45 10M/100M Ethernet Port	
<b>Network Storage</b>	NAS (Support NFS, SMB/CIFS)	
<b>Protocol</b>	IPv4/IPv6, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DHCP, NTP, SNMP, NFS, CIFS	
<b>SYSTEM</b>		
<b>Storage</b>	Support microSD/SDHC/SDXC Card Local Storage, up to 128G	
<b>Advanced Function</b>	Motion Detection, Privacy Masking, Backlight Compensation, HLC, 2D DNR, 3D DNR, ROI, Anti-fog, White Balance, EIS, IP Address Filtering	
<b>Event Trigger</b>	Motion Detection, Network Disconnection, External Input, etc.	
<b>Event Action</b>	FTP Upload/SMTP Upload/SD Card Record	
<b>Video Analysis (Optional)</b>	Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting, Object Left, Object Removed (* In development)	
<b>CELLULAR (Optional)</b>		
<b>Standard &amp; Band</b>	5G, LTE FDD, LTE TDD, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE	
<b>Bandwidth</b>	5G NR: Downstream rate 3.4Gbps, uplink rate 350Mbps FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps	
<b>Transmit Power</b>	<23dBm	
<b>Sensitivity</b>	<-97dBm	
<b>GPS (Optional)</b>		
<b>GPS Module</b>	Industrial GPS module, compatible with Beidou, GLONASS	
<b>Accuracy</b>	Positioning: 2.5m CPE SBAS: 2.0m CPE	
<b>Sensitivity</b>	Tracking: -160dBm Recapture: -160dBm Cold Boot: -146dBm	

**EXTERNAL INTERFACE ( \* = Optional )**

<b>DC-12V IN*</b>	Standard DC12V, Support 12~60V
<b>Audio I/O@Audio Compression*</b>	1/1&G.711/AAC
<b>IO &amp; Relay*</b>	2 x DI, 2 x DO, 2 x Relay
<b>ADC</b>	2@12bit
<b>UART*</b>	2 x RS232 & 2 x RS485
<b>Power Return*</b>	12V@500MA & 5V@1000MA
<b>Storage*</b>	Internal Micro SD Slot, support Micro SD/Micro SDHC/Micro SDXC card (Support Maximum 128G) Internal 2.5" Hard Disk SATA interface, support maximum 6TB HDD or SSD
<b>Network Interface Type</b>	RJ45 10/100M Ethernet M16 Waterproof Interface

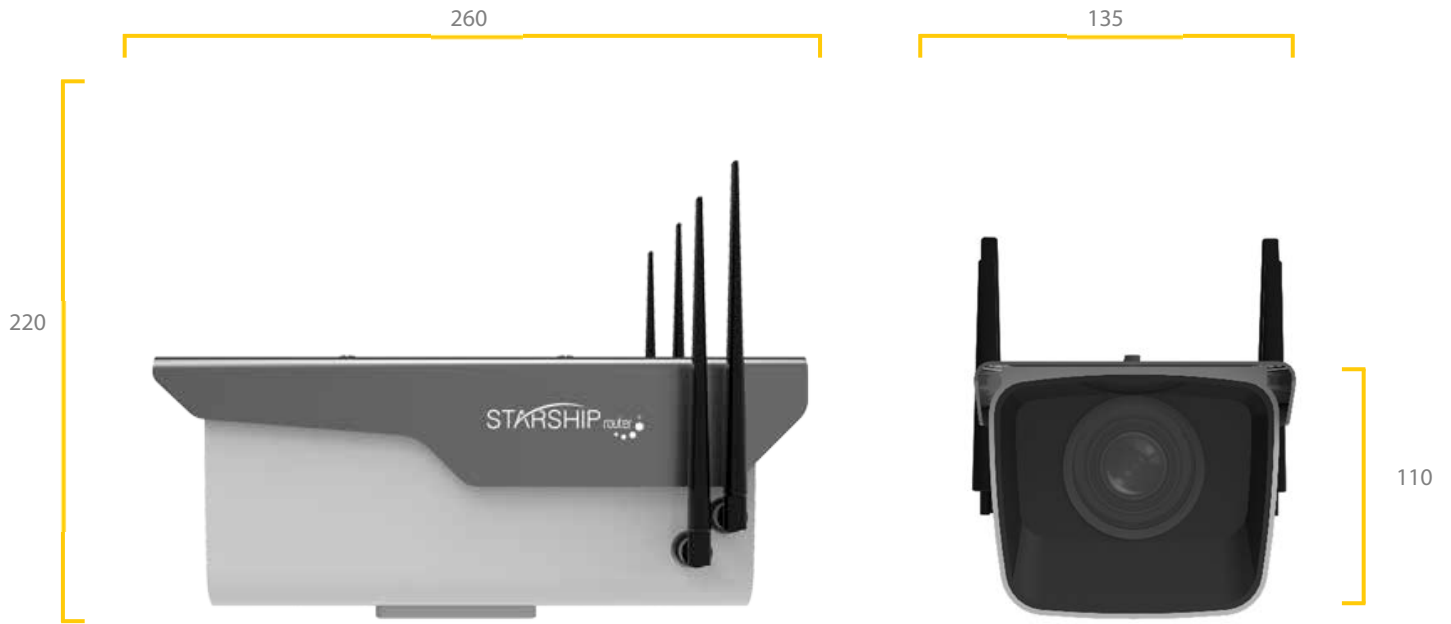
**GENERAL**

<b>Working Temperature</b>	-40 ~75
<b>Working Humidity</b>	0~90% (Non-condensing)
<b>Power Supply</b>	PoE (802.3at) Standby 0.3W
<b>Power Consumption</b>	4W MAX (Day Mode with 4G) 15W MAX (IR On with 4G)
<b>Weather Proof</b>	IP67
<b>Weight</b>	4.5 KG
<b>Dimensions</b>	260*130*110mm (Without Accessories)
<b>Warranty</b>	1 Years

**Protocol & Industrial Standard**

<b>Protocol &amp; Industrial Standard</b>	Onvif Profile S GB/T28181-2016 Modbus RTU MQTT IEC101*, IEC104* (*In development)
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## Dimensions (mm)



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

## Accessories (Optional)



**Cardan Joint1**



**Cardan Joint2**



**Bracket**



**Motorized PTZ Bracket**  
\*In development

Model	Megapixel	Lens	Functions
<b>F-SC241-21-5G</b>	2MP	Fixed Lens	SD, DC&POE, 5G High-speed Module
<b>F-SC241-216-5G</b>	2MP	16X AF Motorized Lens	SD, DC&POE, 5G High-speed Module
<b>F-SC241-21-4G</b>	2MP	Fixed Lens	SD, DC&POE, 4G High-speed Module
<b>F-SC241-216-4G</b>	2MP	16X AF Motorized Lens	SD, DC&POE, 4G High-speed Module