



## **ST-FE120D**

12MP Fish Eye  
Camera

# Features

- Progressive Scan CMOS Sensor.
- Software Dewarping: 12M @ 20FPS.
- Edge Dewarping, Up to 4M Resolution.
- Quad Streams Compression: H.264 Baseline / Main / High Profile + MJPEG.
- Multiple Dewarp Display Modes.
- Digital PTZ / Panorama View / Quad View.
- Smart Event Function.
- Audio Detection / Motion Detection / Network Failure Detection / Tampering Alarm Periodical Event / Manual Trigger Event.
- Multiple and Dynamic Region of Interest (ROI) Windows.
- Smart TextOverlay and Privacy Masks.
- Wide Dynamic Range.
- Day/Night (ICR).
- IR LED Module.
- Built-in MIC & Speaker.
- 2D/3D Noise Reduction / Color Noise Reduction.
- Weatherproof (IP66 International).
- MicroSD and NAS Recording Support.
- Compact and Concise Design.
- ONVIF Support.
- IK10.

# Technical Specifications

Image Sensor	1/1.7" Sony Progressive CMOS
Effective Pixels	12M
Minimum Illumination	0.1 lux (Color) 0.01 lux (B/W)
Shutter Speed	1 ~ 1/10000 sec.
<b>Image Setting</b>	
Backlight Compensation	On / Off
White Balance	Manual / AWB / ATW / One Push
Noise Reduction	3DNR / 2DNR / ColorNR
Wide Dynamic Range	On / Off
Privacy Mask	On / Off
Brightness	Manual
Exposure	Auto / Manual
Sharpness	Manual
Contrast	Manual
Saturation	Manual
Digital Zoom	Support
Privacy Mask Type	Color
ICR	Auto / LED On / LED Off / Smart IR / Light Sensor
IR Threshold	Adjustable Levels
Motion Detection	By Schedule / On / Off
<b>Event Setting</b>	
Tampering Alarm	By Schedule / On / Off
Network Failure Detection	By Schedule / On / Off
Audio Detection	On / Off

## Audio

Two-way Audio	Built-in Speaker (Max. 2W Mono) & Microphone or Two-way Audio (Line in / Line out)
Compression	G.711 / G.726 / AAC / LPCM
Microphone in	Max 1 Vpp for microphone      Input impedance: 33K $\Omega$

## Network

Interface	RJ-45, 1Gbps Ethernet
Video Compression	MJPEG / H.264 (MPEG-4 Part 10/AVC) Baseline / Main Profile / High Profile / SVC
Video Streaming (SW Dewarping)	<p>Single: H.264 12M (4000 x 3000) @ 20 fps H.264 4K (3840 x 2160) @ 24 fps H. 264 6M (3200 x 1800) @ 25/30 fps H. 264 / MJPEG 1080p @ 50/60 fps</p> <p>Dual:H.264 12M (4000 x 3000) @ 15 fps + 1080p @ 15 fps H.264 4K (3840 x 2160) @ 20 fps + 1080p @ 20 fps H.264 6M (3200 x 1800) @ 25/30 fps + 720p @ 25/30 fps H.264 / MJPEG 1080p @ 50/60 fps + H.264 / MJPEG 1080p @ 25/30 fps Note: MJPEG supports for resolution of 1080p or under</p> <p>Quad: PAL: H.264 1080P @ 50fps + H.264 1080P @ 50fps + H.264 VGA @ 50fps + H.264 CIF @ 50fps NTSC: H.264 1080P @ 60fps + H.264 SXGA @ 60fps + H.264 D1 @ 60fps + H.264 CIF @ 60fps Note: 1 of the streamings can be MJPEG</p>
Video Resolution	<p>Edge Dewarping: H.264 - 2048x2048 / 2688x1520 / 2048x1536 / 1920x1080 / 1600x1200 / 1408x1408 / 960x960 / 960x720 / 960x554 MJPEG - 1920x1080 / 1600x1200 / 1408x1408 / 960x960 / 960x720 / 960x554</p> <p>SW Dewarping: H.264 - 12M (4000 x 3000) / 8M (3840 x 2160) / 6M (3072 x 2048) / Full HD 1080p / SXGA / HD 720p / XGA / SVGA / D1 / VGA / CIF / QVGA</p> <p>MJPEG - Full HD 1080p / SXGA / 720P / XGA / SVGA / D1 / VGA / CIF / QVGA</p>

Video Windows under ePTZ	4
Protocol	ARP, IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF
Security	HTTPS / IP Filter / IEEE 802.1X
Input Alarm	1 Set      5V 10kΩ pull up
Output Alarm	1 Set      Photo Relay Output 300V DC/AC
Event Notification	HTTP / FTP / SMTP
Micro SD	microSDXC 64GB support
Supported Web Browser	Internet Explorer (7.0+) / Firefox / Safari
User Account	20
Password Levels	User and Administrator

## Mechanical

Lens Mounting	M12
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## Connectors

Alarm & Audio	7 Pin Terminal Block
Power	2 Pin Terminal Block
Ethernet	RJ-45
Analog Video	1.0 Vp-p / 75 Ω, BNC
Audio	Built-in Speaker (Max. 2W Mono) & Microphone or Two-way Audio (Line in / Line out)

## General

Operating Temperature	-10°C ~ 65°C
Humidity	10% ~ 90%, No Condensation
Dimension	Ø 117 x 55 mm (Ø 4.6 x 2.17 in.)
Weight	400g (0.88 lb)
Power Source	PoE / DC 12V
Power Consumption	Operation (802.3af) System PoE: 7.1W / DC 12V: 8.1W Operation (802.3af) Others IR LED: +1.9W / ICR Switching: +0.5W / SD Card: +0.6W
Regulatory	CE / FCC / RoHS



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