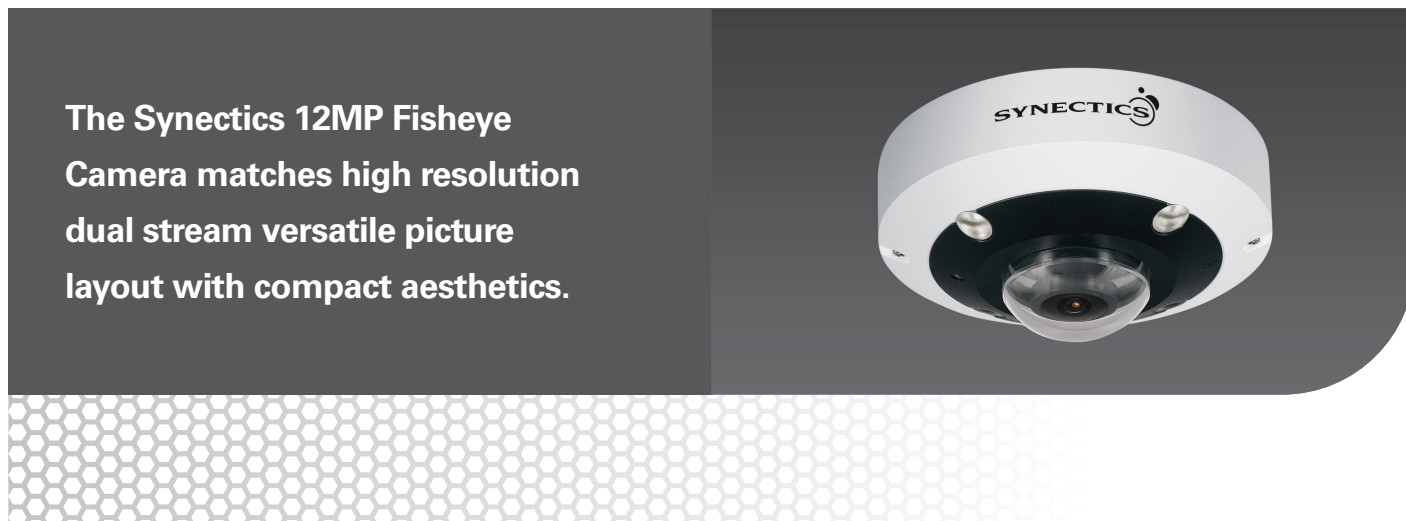# 12MP IP Fisheye Camera with Edge De-Warping
## SY-FEE-XYU

**The Synectics 12MP Fisheye Camera matches high resolution dual stream versatile picture layout with compact aesthetics.**

The Synectics 12MP HD multi-stream IP fisheye camera is equipped with a Sony Exmor™ progressive scan CMOS sensor providing outstanding video resolution.

The camera delivers full 360-degree field of view and simultaneous ability to select a number of optional views including a quad view complete with individual electronic PTZ.

This versatile camera is able to be mounted indoors in both ceiling and wall orientation. With the flexibility this camera can offer it is the ideal choice for many locations to provide wide area surveillance coverage.

\* NOTE: Image for representation only, model is supplied with RJ-45 pig-tail.

360° VIEW

MULTI VIEW

ePTZ

Onvif | G M S T

INTELLIGENT EDGE RECORDING

H.264 H.265

BUILT-IN MIC

AAC

TAMPER DETECTION

BACKFILLING

**SYNECTICS**

# Specifications

| CAMERA | SY-FEE-XYU |
|---|---|
| Image Sensor | 12MP Sony Exmor 1/1.7" Progressive Scan CMOS |
| Effective Pixels | 4000 (H) x 3000 (V) |
| Resolution | H.264/H.265 (2976 * 2976), (2048 x 2048), (2048 x 1536), (1920 x 1080), (1600 x 1200), (1408 x 1408), (960 x 960), (960 x 720), (960 x 544) MJPEG- Full HD 1080p, (1600 x 1200), (1408 x 1408), (960 x 960), (960 x 720), (960 x 544) |
| Min Illumination Color | 0.1 Lux |
| Min Illumination B&W | 0.01 Lux |
| Shutter Speed | 1 ~ 1/10000 sec |

| LENS | |
|---|---|
| Lens Mount | N/A |
| Lens | 1.65 mm Fisheye Lens |
| FOV | 180° @ Full Resolution |
| F Number | F2.0 |
| P Iris | N |
| Focus Mode | N/A |
| Digital Zoom | 8x |

| PTZ OPTIONS | |
|---|---|
| Pan Travel | N/A |
| Tilt Travel | N/A |
| Manual Speed | N/A |
| Presets | N/A |
| Preset Accuracy | N/A |
| Preset Speed | N/A |
| Sequence | N/A |
| Auto Pan | N/A |
| Cruise | N/A |
| Proportional Pan / Tilt | N/A |
| Home Function | N/A |
| Auto Flip | N/A |
| Image Rotation | Flip / Mirror / Inverse / Portrait |

| STREAMING OPTIONS | |
|---|---|
| Compression | H.264 / H.265 |
| ONVIF Profile | G / M / S / T |
| Stream | Single Stream: H.264/H.265 2976 x 2976 @ 27 fps, 2048 x 2048 @ 30 fps Dual Stream: H.264/H.265 2048 x 2048 @ 25/30fps \| 1920 x 1080 @ 25/30fps |
| Stream 1 Max Resolution and FPS | H.264/H.265 2976 x 2976 @ 27 fps |
| Stream 2 Max When Stream 1 Set Max Resolution and FPS | H.264/H.265 960x960 @ 15fps |
| Min/Max Bitrate | 64/20480 (kbps) |

| OPERATION | |
|---|---|
| ICR | Auto / On / Off / Smart |
| LED Numbers | 4 |
| LED Distance | Up to 5 m |
| White Balance | Manual / AWB / ATW / One Push |
| NR | 2D / 3D / Color |
| BLC | On / Off |
| WDR | Gamma WDR |
| DIS / EIS | N |
| Motion Detection | On / Off / Schedule |
| Privacy Mask Type | 8 Colors / 5 Sets |
| Tamper Alarm | On / Off / Schedule |
| Audio Type | Built-in Speaker (Max. 2W Mono) & Microphone |
| Audio In | AAC / G.711 / G.726 |
| Audio Out | AAC / G.711 / G.726 |
| Audio Sample Rate | ACC: 48000 / Other: 8000 |
| Analog Out | N/A |
| Heater | N/A |
| Fan | N/A |
| Alarm Input | 1 Set<br>5V 10kΩ Pull Up |
| Alarm Output | 1 Set<br>Photo Relay Output 300V DC / AC |
| Event Notification | HTTP / FTP / SMTP |
| SD Card Support | microSDXC 128GB |
| Ethernet Connector | RJ-45 pig-tail cable |
| Power Connector | PoE only |
| I/O Connector | 8 Pin Terminal Block, Pitch 2.5 mm |
| Protocol | IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF G, ONVIF M, ONVIF S, ONVIF T |
| Security | HTTPS / IP Filter / IEEE 802.1X |

| ENVIRONMENTAL | |
|---|---|
| Operating Temperature | -10°C ~ 50°C (14° ~ 122° F) |
| Storage Temperature | -20°C ~ 65°C (-4° ~ 149° F) |
| Humidity | 10% ~ 90%, No Condensation |
| Vandal Resistant | IK10 |

| GENERAL | |
|---|---|
| Power | PoE |
| Power Priority | N/A |
| Power Failover | N/A |
| PoE Classification | Class 0 |
| Power Consumption (Total Unit) | Maximum of PoE: 9.5W |
| Dimensions | Ø 130 x 61.5 mm / Ø 5.1 x 2.4" |
| Weight | 330 g / 0.73 lb |
| Certification | CE / FCC |

| PRODUCT | | Description | Indoor / Internal Only |
|---|---|---|:---:|
| SY-FEE-ICM-22 |  | Internal PTZ In Ceiling Mount*1 | ✔ |
| SY-FEE-WM-22 |  | Internal PTZ Pendant / Wall Bracket Adaptor*1 | ✔ |

*1 Standalone accessory, no further accessories are required.
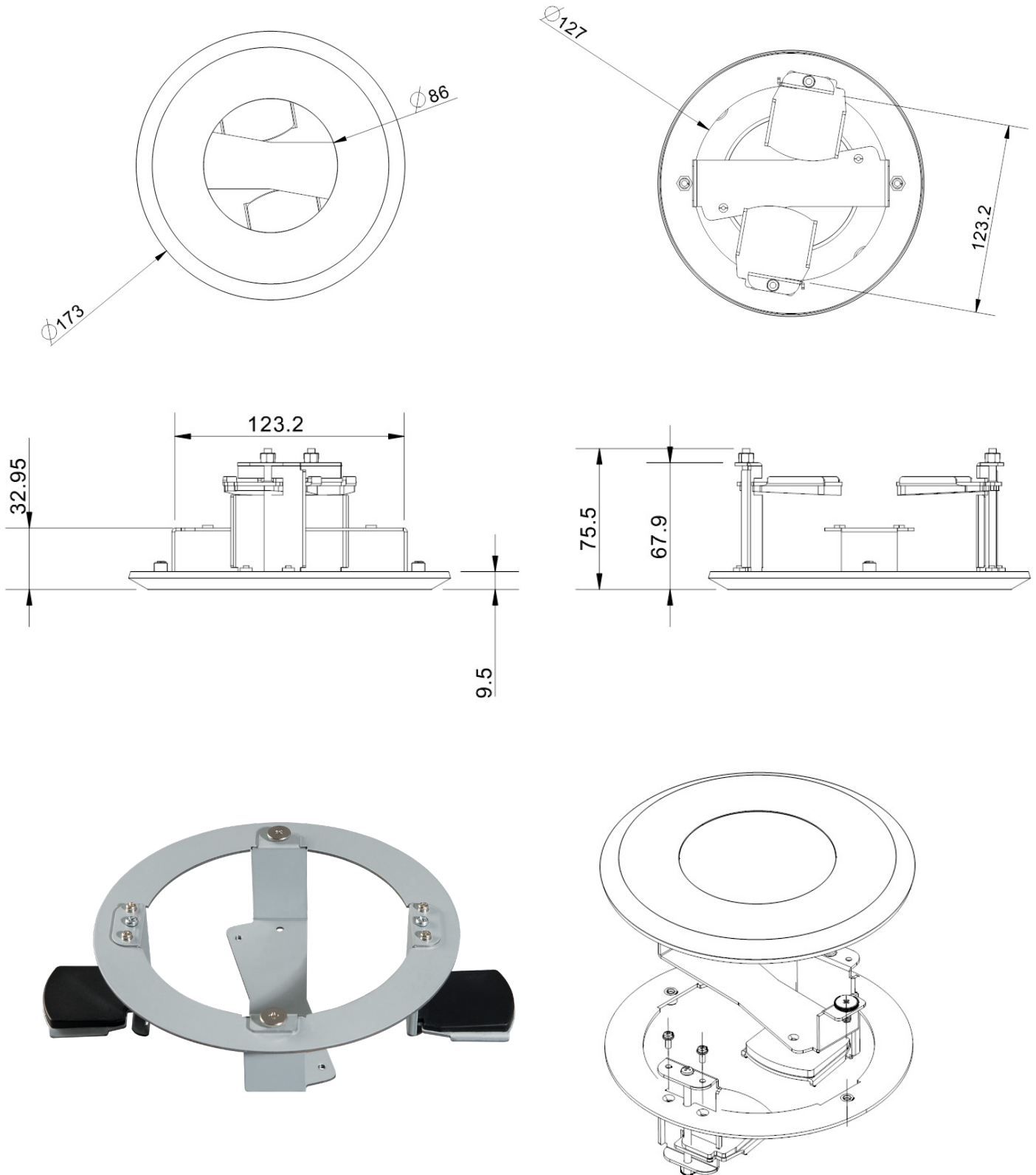

SY-FEE-WM-22

The following are required in combination with other accessories for mounting requirements.

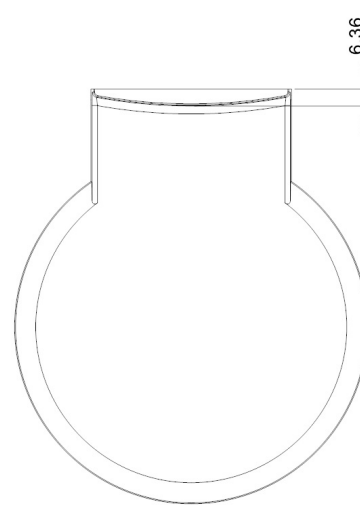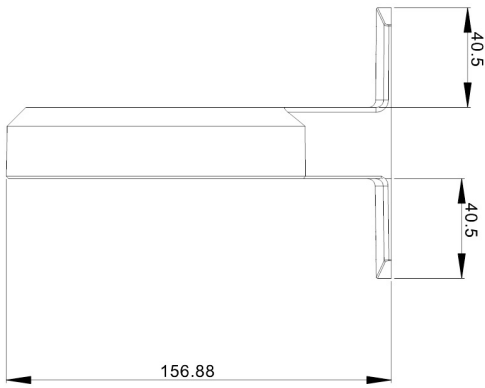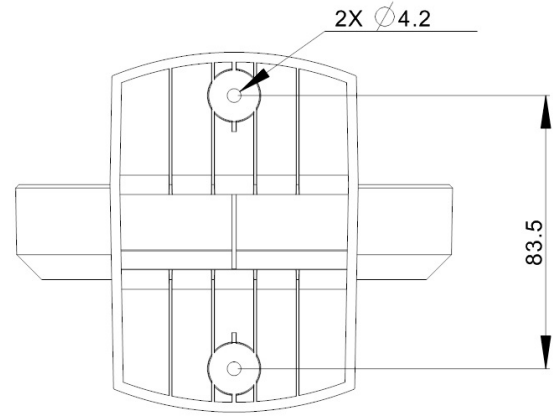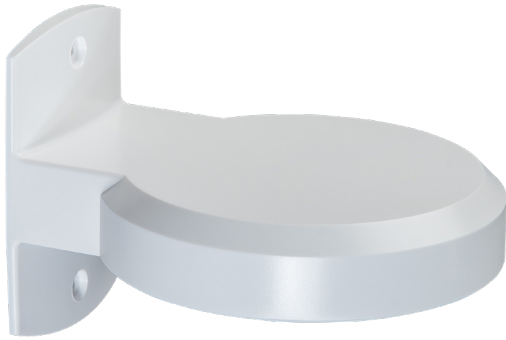| PRODUCT | SY-FEE-A-22 | SY-CM-P | SY-CM-MP | SY-CM-T25 | SY-CM-T50 | SY-CM-T100 | SY-CM-15NTP | SY-CM-WMB | SY-CM-CWM | SY-CM-PMB |
|---|---|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|:---:|
| Wall Mounting | Required | ✔ | ✔ | | | | | ✔ | ✔ | ✔ |
| Pole Mounting | Required | | | ✔ | ✔ | ✔ | | | | |
| Non-Synectics Bracketry | Required | | | | | | Required | | | |

**Synectics**
**synecticsglobal.com**

# Fish Eye Accessories Addendum and Diagrams

**IN CEILING MOUNT — SY-FEE-ICM-22**



Cut Hole size: 147 mm

## WALL MOUNT BRACKET — SY-FEE-WM-22