

SG-UCM2030NL

- 2Megapixel 30x Zoom Starlight UAV Camera Module



1. Features

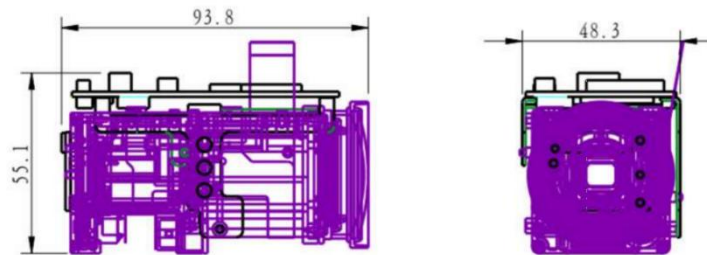
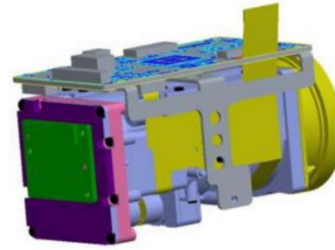
- > 1/2.8" Sony CMOS Sensor.
- > Powerful 30x optical zoom (4.7mm~141mm).
- > Max. 2Mp(1920x1080) Resolution
- > Support Tracking via fuzzy matching algorithm based on optical flow and motion
- > Support EIS and Electronic Defog
- > Dual video stream output, support Network output
- > Support various OSD

2. Specification

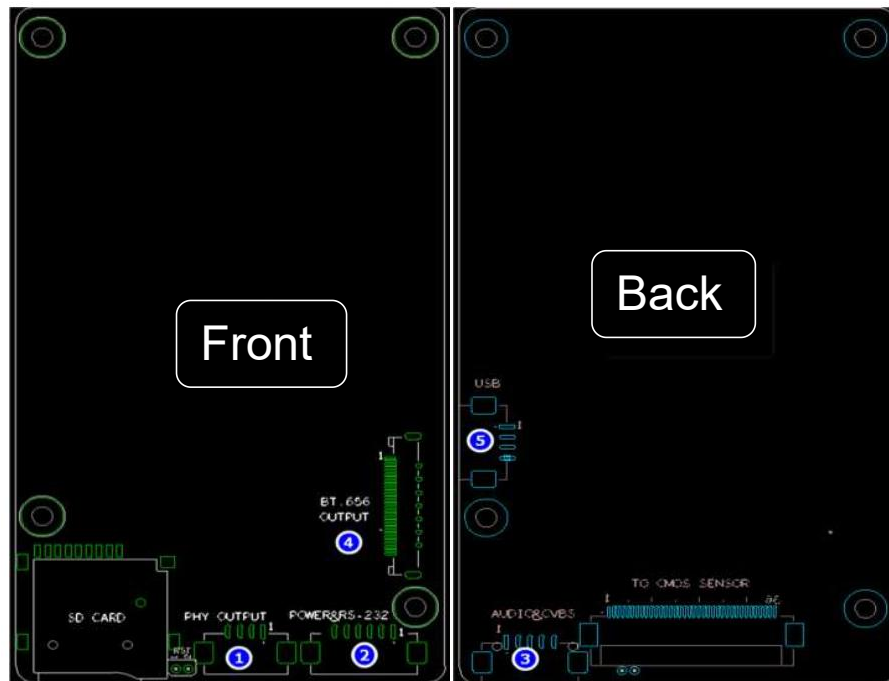
| Model | | SG-UCM2030NL | | | |
|--------|-----------------------|--|---------|-----------|----------|
| Sensor | Image Sensor | 1/2.8" Sony Starvis progressive scan CMOS | | | |
| | Effective Pixels | Approx. 2.13 Megapixel | | | |
| Lens | Focal Length | 4.7mm~141mm, 30x Optical Zoom | | | |
| | Aperture | F1.5~F4.0 | | | |
| | Field of View | H: 61.2°~2.2°, 36.8°~1.2°, D: 68.4°~2.5° | | | |
| | Close Focus Distance | 0.1m~1.5m (Wide~Tele) | | | |
| | Zoom Speed | Approx. 3.5s (Optical Wide~Tele) | | | |
| | DORI Distance (Human) | Detect | Observe | Recognize | Identify |
| | 1,999m | 793m | 399m | 199m | |
| Video | Compression | H.265/H.264/H.264H/MJPEG | | | |
| | Streaming Capability | 3 streams | | | |
| | Resolution | 50Hz: 25fps@2MP(1920×1080), 25fps@1MP(1280×720) 60Hz: 30fps@2MP(1920×1080), 30fps@1MP(1280×720) | | | |
| | Video Bit Rate | 32kbps~16Mbps | | | |

| | | |
|------------------------|------------------|--|
| | Audio | AAC / MP2L2 |
| Network | Storage | TF card (256 GB), FTP, NAS |
| | Network Protocol | Onvif, HTTP, HTTPS, IPv4, IPv6, RTSP, DDNS, RTP, TCP, UDP |
| | Multicast | Support |
| General Events | | Motion, Tamper, SD Card, Network |
| IVS | | Tripwire, Cross Fence Detection, Intrusion, Abandoned Object, Fast-Moving, Parking Detection, Crowd Gathering Estimation, Missing Object, Loitering Detection. |
| S/N Ratio | | ≥55dB (AGC Off, Weight ON) |
| Minimum Illumination | | Color: 0.005Lux/F1.5; B/W: 0.0005Lux/F1.5 |
| Noise Reduction | | 2D/3D |
| Exposure Mode | | Auto, Aperture Priority, Shutter Priority, Gain Priority, Manual |
| Exposure Compensation | | Support |
| Shutter Speed | | 1/1~1/30000s |
| BLC | | Support |
| HLC | | Support |
| WDR | | Support |
| White Balance | | Auto, Manual, Indoor, Outdoor, ATW, Sodium lamp, Street lamp, Natural, One Push |
| Day/Night | | Electrical, ICR(Auto/Manual) |
| Focus Mode | | Auto, Manual, Semi Auto, Fast Auto, Fast Semi Auto, One Push AF |
| Electronic Defog | | Support |
| Flip | | Support |
| EIS | | Support |
| Digital Zoom | | 16x |
| External Control | | TTL |
| Interface | | 4pin Ethernet port, 6pin Power & UART port, 5pin Audio port. |
| Communication Protocol | | SONY VISCA, Pleco D/P |
| Operating Conditions | | (-10°C~+60°C/20% to 80%RH) |
| Storage Conditions | | (-20°C~+70°C/20% to 95%RH) |
| Power Supply | | DC 12V |
| Power Consumption | | Static power: 4.0W, Sports power: 5.0W |
| Dimensions(L*W*H) | | 94mm*48mm*55mm |
| Weight | | 154g |

3. Dimension



4. Interface Definition



Network Interface

| Type | PIN Number | PIN Name | Description |
|-----------------------------|------------|----------|--------------|
| (1) 4PIN Internet Interface | 1 | ETHRX- | Internet RX- |
| | 2 | ETHRX+ | Internet RX+ |
| | 3 | ETHTX- | Internet TX- |
| | 4 | ETHTX+ | Internet TX+ |
| (2) 6PIN Power | 1 | DC_IN | DC12V±10% |

| | | | |
|-------------------------|---|-----------|--------------------------|
| & UART Interface | 2 | GND | GND |
| | 3 | RXD1 | TTL 3.3V, Pelco Protocol |
| | 4 | TXD1 | TTL 3.3V, Pelco Protocol |
| | 5 | RXD0 | TTL 3.3V, Visca Protocol |
| | 6 | TXD0 | TTL 3.3V, Visca Protocol |
| J3_5pin Audio Interface | 1 | AUDIO_OUT | Audio Out (Line Out) |
| | 2 | GND | GND |
| | 3 | AUDIO_IN | Audio In (Line In) |
| | 4 | GND | GND |
| | 5 | NC | NC |

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*Design and specifications are subject to change without prior notification.

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