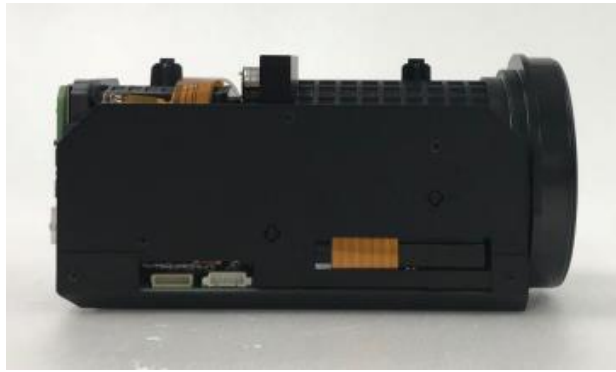


# CBM31265AFB

## 1/1.8" Global Shutter CMOS x31 Zoom/AF/NIR Camera Module



### ■ Overview

- 2M camera module with SONY global shutter image sensor.
- Equipped with 1/1.8" 31x optical zoom lens for 2M.
- Equipped with a visible light cut filter as standard.

### ■ Feature

- AF camera module for traffic monitoring, equipped with a global shutter sensor.
- Supports auto ICR operation, automatically switching from daytime color images to nighttime near-infrared images
- 31x optical zoom and 32x digital zoom for a total of 992x zoom.
- Equipped with auto iris, auto electronic shutter, auto gain, auto white balance, and auto focus.
- Equipped with various correction functions according to the image scene (DNR, WDR, fog, heat haze, etc.).
- Compatible with LVDS output, allowing easy connection to network modules.
- Supports 3G-SDI/HD-SDI output, enabling long-distance wiring up to 100m without image quality degradation.
- Supports 1080p, 1080i, 720p video formats.
- Flexible support for additional functions.

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## ■ Specifications

|                        |                             |                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor                 | Image Sensor                | 1/1.8" Global Shutter CMOS Image Sensor (IMX265LQR-C)                                                                                                                                                                                                                                                                                             |
|                        | Number of pixels            | 2064(H) x 1554(V), 3.21M Pixels                                                                                                                                                                                                                                                                                                                   |
|                        | Pixel Size                  | 3.45 μm(H) x 3.45 μm(V)                                                                                                                                                                                                                                                                                                                           |
|                        | Scan Format                 | 1920x1080@30fps, 1920x1080@25fps, 1920x1080@60fps, 1920x1080@50fps<br>(Option 1920x1080@29.97fps, 1920x1080@59.94fps)                                                                                                                                                                                                                             |
| Lens                   | F No.                       | Wide: F1.36, Tele: F4.60                                                                                                                                                                                                                                                                                                                          |
|                        | Focal Length                | Wide (x1) : 6.91mm, Tele (x31) : 214.64mm                                                                                                                                                                                                                                                                                                         |
|                        | Zoom                        | Optical Zoom 1~31times : Stepping Moter<br>Digital Zoom 1~32 times : (Optical + Digital Zoom Max : 992 times)                                                                                                                                                                                                                                     |
|                        | Focus                       | Stepping motor system auto focus<br>Focus range : Wide 2.0m~∞, Tele 2.0m~∞                                                                                                                                                                                                                                                                        |
|                        | Optical Arange of view      | Wide (x1) : D/59.95° , H/52.74° , V/30.50°<br>Tele (x31) : D/2.02° , H/1.77° , V/0.99°                                                                                                                                                                                                                                                            |
|                        | Optical Filter (Triple ICR) | 1: IR Cut Filter (for Day Color)<br>2: NIR Filter<br>3: Through Glass                                                                                                                                                                                                                                                                             |
| Video                  | Video Format                | 3G-SDI : 1080p60, 1080p50<br>(Option 1080p59.94)<br>HD-SDI : 1080p30, 1080p25, 1080i60, 1080i50, 720p60, 720p50, 720p30, 720p25<br>(Option 1080p29.97, 1080i59.94, 720p59.94, 720p29.97)<br>LVDS : 1080p30, 1080p25, 1080i60, 1080i50, 720p60, 720p50, 720p30, 720p25<br>(Option 1080p29.97, 1080i59.94, 720p59.94, 720p29.97)<br>VBS : NTSC, PAL |
|                        | Minimum Illumination        | Color 0.02 lx B/W 0.01 lx, F1.5, 25 IRE, AGC 42dB                                                                                                                                                                                                                                                                                                 |
|                        | Signal to Noise Ratio       | STD 52dB (Minimum 48dB)                                                                                                                                                                                                                                                                                                                           |
|                        |                             |                                                                                                                                                                                                                                                                                                                                                   |
| Function               | Setting                     | OSD, UART(2ch)                                                                                                                                                                                                                                                                                                                                    |
|                        | Auto Iris                   | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | Auto Exposure               | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | Auto Focus                  | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | White Balance               | AUTO / ATW / AWB (One Push)                                                                                                                                                                                                                                                                                                                       |
|                        | Manual Shutter              | 1/30(25), 1/50, 1/60, 1/100, 1/120, 1/150, 1/180, 1/250, 1/350,<br>1/500, 1/750, 1/1000, 1/2000, 1/4000, 1/10000, 1/34000, 1/78000 sec.                                                                                                                                                                                                           |
|                        | Sense Up                    | AGC Max 60dB & Slow Shutter Max 8 sec.                                                                                                                                                                                                                                                                                                            |
|                        | Day & Night Mode            | Color / B&W / Auto / External                                                                                                                                                                                                                                                                                                                     |
|                        | Digital Noise Reduction     | 2D + 3D (Coupled Motion ON/OFF)                                                                                                                                                                                                                                                                                                                   |
|                        | Backlight Control           | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | Peak / Average Control      | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | Gamma Control               | 0.45 ~ 1.00 (Auto Setup ON/OFF)                                                                                                                                                                                                                                                                                                                   |
|                        | Wide Dynamic Range          | XDR, D-WDR, V-WDR                                                                                                                                                                                                                                                                                                                                 |
|                        | Eclipse (High Light Clip)   | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | Fog Reduction               | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | Heat Haze Correction        | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | Motion Detection            | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | H/V Mirror, Flip            | Yes                                                                                                                                                                                                                                                                                                                                               |
|                        | OSD Language                | English, Japanese (Customizable)                                                                                                                                                                                                                                                                                                                  |
|                        | General                     | Title Display                                                                                                                                                                                                                                                                                                                                     |
| Communication Protocol |                             | Original / Pelco-D / Pelco-P / VISCA                                                                                                                                                                                                                                                                                                              |
| Privacy Mask           |                             | Yes (16 Masks)                                                                                                                                                                                                                                                                                                                                    |
| Preset Position        |                             | Yes (64 Area)                                                                                                                                                                                                                                                                                                                                     |
| Synchronous Mode       |                             | Internal                                                                                                                                                                                                                                                                                                                                          |
| Power Source           |                             | DC+12V                                                                                                                                                                                                                                                                                                                                            |
| Consumption Current    |                             | 420mA (30fps)                                                                                                                                                                                                                                                                                                                                     |
| Operation Temperature  |                             | -10°C ~ +50°C                                                                                                                                                                                                                                                                                                                                     |
| Storage Temperature    |                             | -30°C ~ +70°C                                                                                                                                                                                                                                                                                                                                     |
| Humidity               |                             | 80% Max                                                                                                                                                                                                                                                                                                                                           |
| Dimensions             |                             | W63mm x H67mm x D141.74mm                                                                                                                                                                                                                                                                                                                         |
| Net Weight             |                             | 450g                                                                                                                                                                                                                                                                                                                                              |

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## Pin Assignment

| JP1 (USL00-30L-A/KEL) |           |                   |
|-----------------------|-----------|-------------------|
| 1                     | TXout3+   | LVDS TXD3+        |
| 2                     | TXout3-   | LVDS TXD3-        |
| 3                     | TXCLKout+ | LVDS TXCLK+       |
| 4                     | TXCLKout- | LVDS TXCLK-       |
| 5                     | TXout2+   | LVDS TXD2+        |
| 6                     | TXout2-   | LVDS TXD2-        |
| 7                     | TXout1+   | LVDS TXD1+        |
| 8                     | TXout1-   | LVDS TXD1-        |
| 9                     | TXout0+   | LVDS TXD0+        |
| 10                    | TXout0-   | LVDS TXD0-        |
| 11                    | GND       | Ground            |
| 12                    | TXD1      | UART TX (5V)      |
| 13                    | RXD1      | UART RX (5V)      |
| 14                    | DC12in    | 12V DC            |
| 15                    | DC12in    | 12V DC            |
| 16                    | DC12in    | 12V DC            |
| 17                    | DC12in    | 12V DC            |
| 18                    | DC12in    | 12V DC            |
| 19                    | GND       | Ground            |
| 20                    | GND       | Ground            |
| 21                    | GND       | Ground            |
| 22                    | GND       | Ground            |
| 23                    | GND       | Ground            |
| 24                    | GND       | Ground            |
| 25                    | -         | Reserved          |
| 26                    | -         | Reserved          |
| 27                    | VBS       | Analog Video      |
| 28                    | -         | Reserved          |
| 29                    | -         | Reserved          |
| 30                    | RS485EN1  | RS485 Enable (5V) |

| JP2 (53261-0671/MOLEX) |        |                 |
|------------------------|--------|-----------------|
| 1                      | DC12in | 12V DC          |
| 2                      | GND    | Power Ground    |
| 3                      | VBS    | Analog Video    |
| 4                      | GND    | Video Ground    |
| 5                      | IReXt  | ICR Control     |
| 6                      | VDO    | Sensor VD Pulse |

| JP3 (SM06B-SRSS-TB/JST) |       |                |
|-------------------------|-------|----------------|
| 1                       | ENTER | OSD Enter      |
| 2                       | RIGHT | OSD Right/Tele |
| 3                       | LEFT  | OSD Left/Wide  |
| 4                       | UP    | OSD Up/Near    |
| 5                       | DOWN  | OSD Down/Far   |
| 6                       | GND   | Ground         |

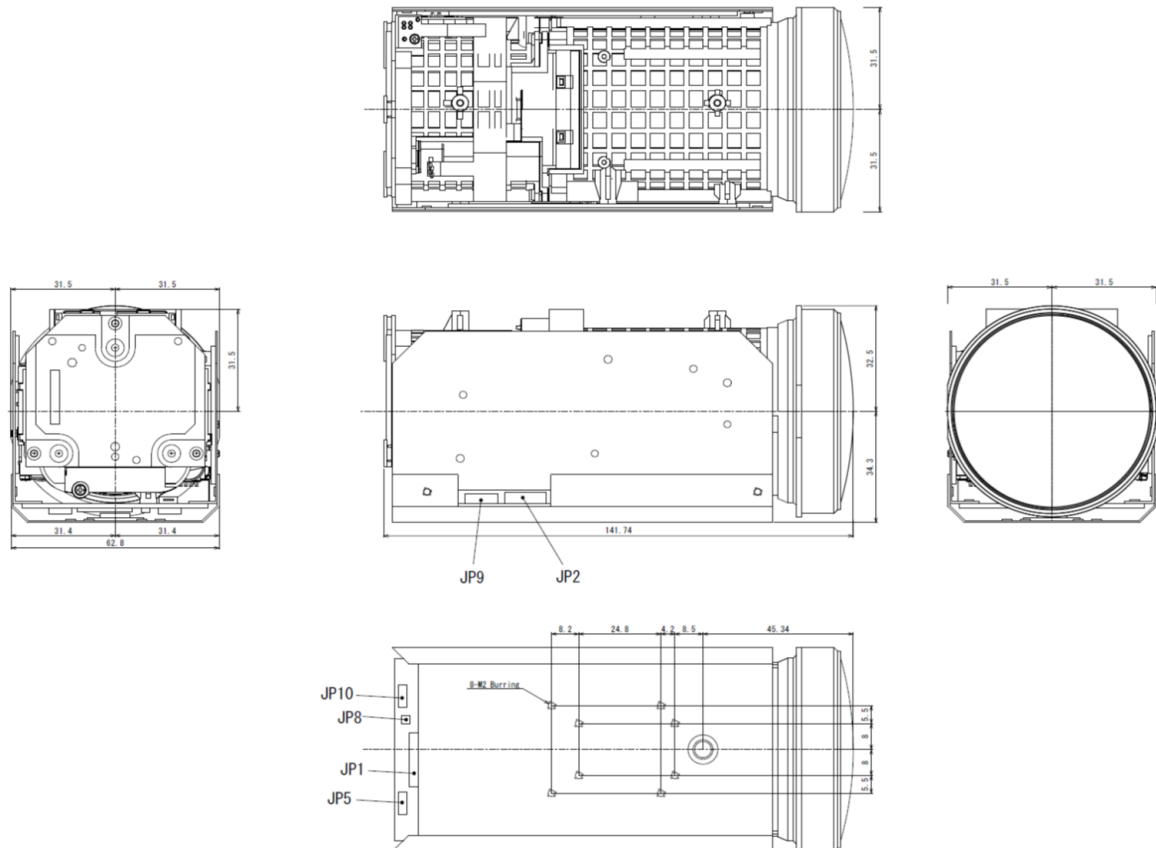
| JP4 (SM05B-SRSS-TB/JST) |          |                     |
|-------------------------|----------|---------------------|
| 1                       | GND      | Ground              |
| 2                       | TXD2     | UART TX (3.3V)      |
| 3                       | RXD2     | UART RX (3.3V)      |
| 4                       | DC33out  | 3.3V DC             |
| 5                       | RS485EN2 | RS485 Enable (3.3V) |

| JP8 (AYU1-1P-02676-120/JST) |        |              |
|-----------------------------|--------|--------------|
| 1                           | TX-SDI | SDI TX       |
| 2                           | GND    | Video Ground |

| JP11 (SM04B-SRSS-TB/JST) |         |         |
|--------------------------|---------|---------|
| 1                        | DC33out | 3.3V DC |
| 2                        | ARin    | Audio R |
| 3                        | ALin    | Audio L |
| 4                        | AGND    | Ground  |

(Option)

## Dimensions



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