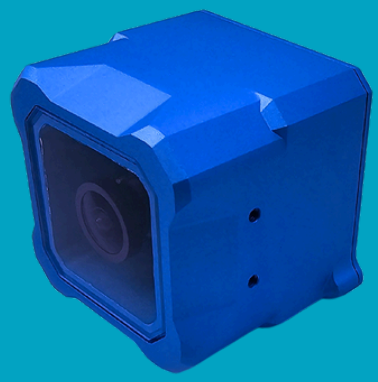
MATERIA

Colibrì

GMSL2 Industrial cameras

DESCRIPTION

Colibrì is part of the latest generation Materia's GMSL2 cameras. Featuring 3 MegaPixels, 120 Fps and cutting edge technologies such as Global Shutter, HDR, and Variable Shutter Speed.
The sensor mounted is Sony's IMX900, part of the new generation Pregius-S® back-illuminated sensors family, delivering leader performance in difficult light conditions.
Colibrì can mount tailored or non-tailored lenses via S Mount Optics (M12).



SENSOR SPECIFICATIONS

Model: IMX900
Series: Pregius-S®
Shutter Type: Global Shutter
Type: Color

Resolution: 2048 (H) × 1536 (V), 3.14 Mpixels
Size: 1/3.1" CMOS
Frame rate: All-pixel scan mode, 12 bit: 70 fps, 10 bit: 113 fps , 8 bit: 120 fps
HDR: Yes
Coating: Anti-reflective coating glass

INTERFACE SPECIFICATIONS

Interface: GMSL2, up to 6 Gbps
Cable: Coaxial, up to 15 meters
Connector: Fakra Z
PoC (Power Over Coaxial)

- 12V PoC
- 1 cable for Power & Signals
- Full-Duplex
- Easy to install

PHYSICAL CHARACTERISTICS

Dimensions: 45mm x 45 mm
Temperature range: -20°C to 60°C
Case: Custom IP69K case (Optional)

BOARD FEATURES

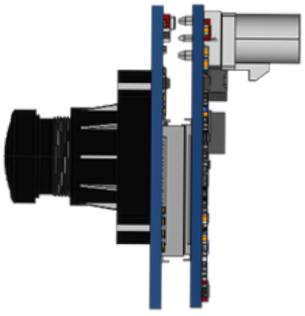
3-Axis MEMS accelerometer

- Precision: 14 bit
- Range: ± 2G
- Bandwidth: 800Hz
- Embedded temperature sensor

1Kb EEPROM

OPTICS

Mount: M12
FOV: From 90° to 175°
Distortion: Low distortion lenses and Sunex Tailored® lenses (Optional)
IR filter: Yes
Protection: Up to IP69K
Materials: Aluminium, Glass



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