## GO-8105M-5GE-UV 8.1-megapixel CMOS global shutter





- High performance camera with 8.1-megapixel resolution and UV sensitivity
- 2/3" CMOS imager (global shutter) features backside illuminated pixel technology
- 2856 x 2848 resolution with 2.74 µm square pixels
- *Up to 66 fps over high performance 5GBASE-T interface (5 gigabits per second)*
- Can auto-negotiate to 2.5GBASE-T and standard GigE (1000BASE-T)
- 8/10/12-bit monochrome output
- Flexible ROI & rescaling function (Xscale) plus 1x2, 2x1, and 2x2 binning
- Horizontal/vertical image flip function, plus blemish compensation and shading correction
- Includes Sequencer function and Automatic Level Control (ALC) for dynamic lighting conditions
- Compact size with excellent shock and vibration resistance
- Accepts power over GigE Vision interface or via separate 6-pin connector
- Available with quartz glass cover on sensor or with user-removable protective glass
- C-mount lens mount



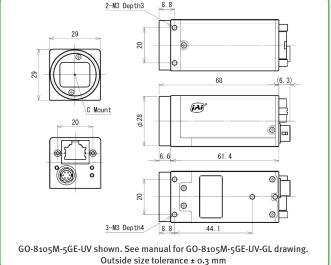
#### Specifications GO-8105M-5GE-UV Sensor 2/3" CMOS global shutter (IMX487) 2856 (h) x 2848 (v) Active pixels Frame rate, full frame 66 frames/sec. @ 8-bit, 5GBASE-T Active area 7.8 mm (h) x 7.8 mm (v) - 11.05 mm diagonal Pixel size 2.74 µm x 2.74 µm Read-out modes 2856 (h) x 2848 (v) up to 66 fps ROI (single) H: 96 to 2856 pixels in 8 pixel steps V: 8 to 2848 lines in 2 line steps ROI (multi) Up to 64 scanning areas - no overlap Binning 1X2, 2X1, 2X2 Image scaling (Xscale) Supports independent, sub-pixel rescaling of H and/or V resolution (1/16 max.) EMVA 1288 Parameters 10-bit output format Absolute sensitivity Mono: TBD p ( $\lambda$ = xxx nm) Maximum SNR Mono: TBD dB Traditional SNR\* >60 dB mono, >60 dB color (o dB gain, 10-bit) Video signal output Monochrome: 8/10/12-bits Gain Manual/auto o dB to +42 dB White balance Off, presets, or one-push/continuous AWB Gamma/LUT 0.45 to 1.0 (9 steps) or 257-point programmable LUT Time synchronization Support for Precision Time Protocol (IEEE 1588) Opto In, Pulse Generators (4), Software, Trigger input NAND Out (2), User Output (4), Actions Exposure modes Timed/EPS, RCT, Trigger Width, Auto Electronic shutter Timed: 3.5 µs to 8 sec. in 1 µs steps Auto: 100 µs to 15.1 ms at full resolution Auto Level Control (ALC) Shutter range from 100 µs to 15.1 ms, gain range from o dB to +42 dB. Tracking speeds and min/max values adjustable. Flat shading Shading correction Video processing functions H & V flip (mirroring), blemish compensation, edge enhancement Operating temp. (ambient) -5°C to +45°C (20 to 80% non-condensing) Storage temp. (ambient) -25°C to +60°C (20 to 80% non condensing) Vibration 10G (20 Hz to 200 Hz, XYZ directions) Shock 8oG Regulations CE(EN 55032:2015(CISPR32:2015), EN 55035:2017(CISPR35:2016)), FCC Part 15 Class A, RoHS/WEEE, KC +10V to +25V DC. 5.1 W typical @ +12 V Power 6-pin PoE<sup>†</sup> +36V to +57 V DC. 6.7 W typical @ +48 V Lens mount C-mount Dimensions (H x W x L) 29 mm x 29 mm x 68 mm Weight 95 g (85 g for GL model)

### **Ordering Information**

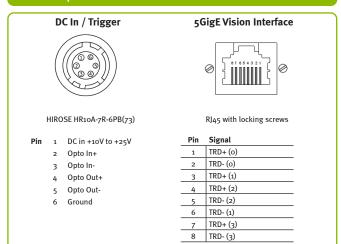
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GO-8105M-5GE-UV	UV-sensitive camera with 5GigE Vision interface
GO-8105M-5GE-UV-GL	Glassless model with removable protective glass

<sup>\*</sup>Traditional SNR is based on random noise in a single frame, where EMVA SNR measurements consider more comprehensive noise sources and variance over time

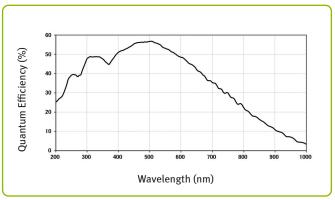
# **Dimensions** 8.8 2-M3 Depth3



### **Connector pin-out**



### Spectral Response\*\*



<sup>\*\*</sup>Note: sensitivity extends below 200 nm but specific QE has not been measured. Images captured at wavelengths above 400 nm may exhibit lower quality due to parasitic light sensitivity (PLS).

Europe, Middle East & Africa Phone +45 4457 8888

Fax +45 4491 8880

Asia Pacific Phone +81 45 440 0154 Fax +81 45 440 0166

Phone (Toll-Free) 1 800 445 5444 Phone +1 408 383 0300



<sup>&</sup>lt;sup>†</sup>PoE use limited to specific pre-defined conditions. Refer to product manual for details.