SW-8000T-SFP

3-CMOS prism line scan camera







- 3 x 8192 pixel prism-based line scan camera
- Provides 10GBASE-R (fiber optic) output over SFP+ interface
- Max. line rate of 49.5 kHz for RGB8 output
- Prism technology for superior color quality and better color differentiation
- New "State of the art" CMOS sensors with 3.75 x 5.78 μm pixels
- Supports vertical dual-line binning, 2x horizontal binning, or both
- ROI capability can increase line rate by reducing number of pixels per line
- Flat field correction and color shading correction
- HSI and XYZ color space conversion
- Supports direct connection to rotary encoders plus large variety of trigger options
- GiqE Vision 2.0 interface with selectable YUV, 3 x 8-bit RGB, or 3 x 10-bit RGB output
- Excellent shock and vibration resistance

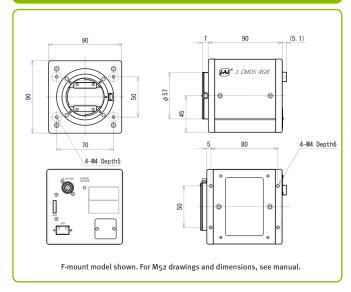


Specifications SW-8000T-SFP Scanning system 3 high-speed CMOS line sensors, prism-mounted 3 x 8192 pixels (R, G, B) Active pixels Line rate (full width) Up to 49.5 kHz (variable) for 8-bit RGB 73.5 kHz possible with YUV compression Sensor width 30.72 mm Pixel size 3.75 µm x 5.78 µm Ethernet speeds 10GBASE-SR / 10GBASE-LR / 10GBASE-ER Video output RGB8, RGB10V1Packed, RGB10p32, YUV422_8_UVYV, YUV422_8 Object illuminance (min.) 157.3 lx @ 7800 K (Gain 30 dB, 525 μ s exp., 50% video, f/2.8) 43 DN/nJ/cm² Responsivity (G channel, 10-bit @ 550 nm, o dB gain) S/N ratio >54 dB on green, 10-bit with o dB gain Inputs (Trigger) 1 Opto In + 1 TTL via 12-pin, 2 TTL via 10-pin, Pulse Generator (4), NAND Out (2), Action (4), User Out (4) Outputs 2 TTL via 12-pin, 2 TTL via 10-pin Gain Digital Master: o to +30 dB, R/B: -4 to +12 dB Digital Individual: o to +36 dB White balance Manual/one-push auto by gain or exposure (4000K - 9000K) 3 Presets (5000K, 6500K, 7500K) Gamma o.45 to 1.0 (9 steps) or 257-point LUT Image processing PRNU/DSNU, black level, flat shading and color shading correction, chromatic aberration adjustment, horizontal mirroring, noise filtering Color space conversion RGB to HSI, XYZ (CIE), sRGB, Adobe RGB, or User Custom RGB Exposure modes No shutter, timed, and trigger width control Electronic shutter 3 μs to 22222 μs in 1 μs increments at 45 kHz. Exposure time can be longer at slower line rates. Pulse width control 1.8 µs to ~1 sec Time synchronization Support for Precision Time Protocol (IEEE 1588) Lens mount Nikon F-mount or M52 mount (46.5 mm flange back for both mounts) 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 3G (20 Hz to 200 Hz, XYZ directions) Shock Regulations CE (EN61000-6-2 and EN61000-6-3) FCC Part 15 Class B, RoHS/WEEE, KC Power 12-pin +10V to +25V DC. 11.5 W typical @ 12V Not supported. Dimensions (H x W x L) (without connector and lens mount protrusions) 90 mm x 90 mm x 90 mm Weight 840 g

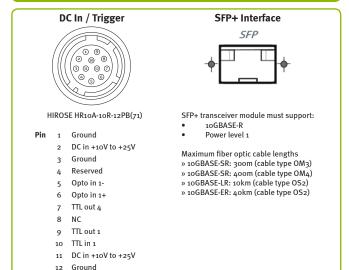
Ordering Information

SW-8oooT-SFP-F	3-CMOS prism line scan camera with F-mount
SW-8000T-SFP-M52	3-CMOS prism line scan camera with M52 mount

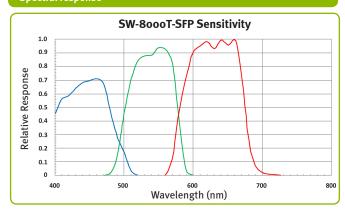
Dimensions (F-mount)



Connector pin-out



Spectral response



Europe, Middle East & Africa Phone +45 4457 8888 Fax +45 4491 8880 **Asia Pacific** Phone +81 45 440 0154 Fax +81 45 440 0166

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

