

▶ **SW-8000Q-10GE**  
4CMOS プリズムラインスキャンカメラ

**GIG**™  
VISION



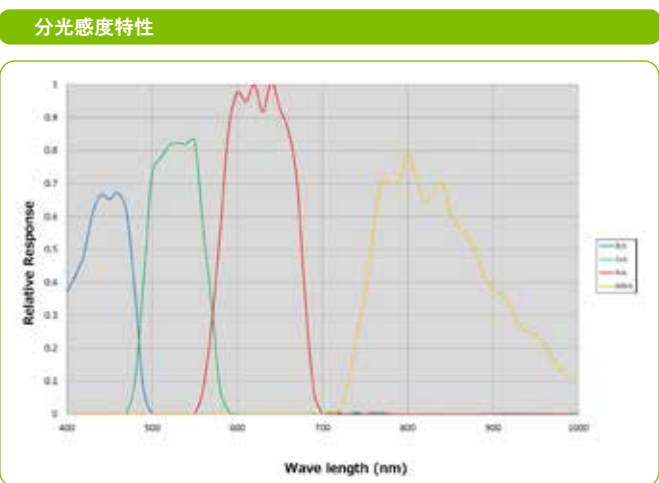
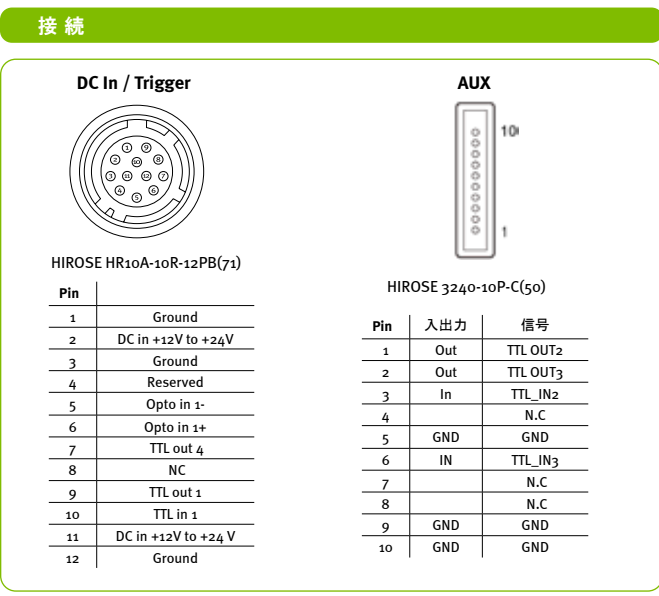
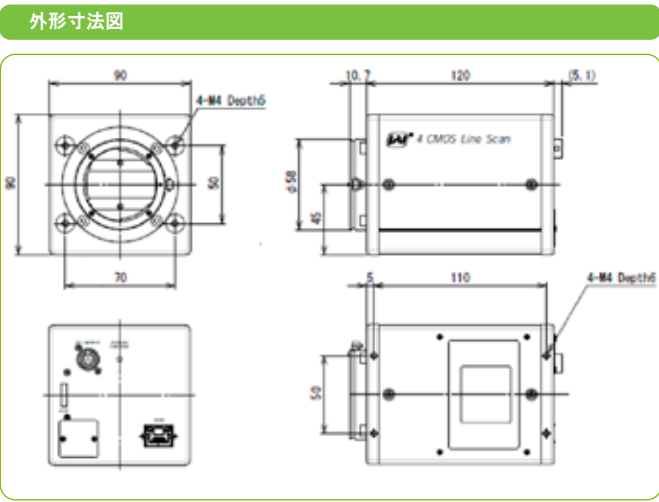
I/Fに10GBase-Rを採用した  
カメラに直接に光I/Fモジュールの接続可能なモデル  
SW-8000Q-SFP もラインナップ



- クラス世界最高速 8192pixels x 4CMOS プリズム式 ラインスキャンカメラ
- 最大ラインレート 37 kHz (RGBa8 出力時)
- ダイクロイックプリズムにより独立した4つのセンサにより、R、G、Bカラー映像と近赤外 (NIR)映像を同時に撮像
- 10ギガビット・イーサネットI/Fを採用 (下位互換 : 1000Base-T, 2.5GBase-T, 5GBase-T, 10GBase-T)
- 最新技術を用い新規に開発されたCMOSセンサを搭載
- 画素サイズ 3.75 x 5.78 μm
- 垂直ビニング、水平ビニングをサポート
- フラットシェーディング、カラーシェーディングをサポート
- 色空間データフォーマット変換 (HSI, XYZ, sRGB, Adobe RGB)
- ロータリーエンコーダとの接続をサポート
- 優れた耐衝撃性、耐振動性

仕様		SW-8000Q-10GE
撮像素子		4 high-speed CMOS line sensors, prism-mounted
有効画素数		4 x 8192 pixels (R, G, B, NIR)
最大ラインレート		Up to 37 kHz (variable) for 8-bit RGB + NIR 37 kHz possible with YUV compression
センササイズ		30.72 mm
画素サイズ		3.75 μm x 5.78 μm
インタフェース		10GBASE-T, 5GBASE-T, 2.5GBASE-T, 1000BASE-T Full backwards compatibility
映像出力		Single stream: RGBa8 Two streams: RGB8, RGB10V1Packed, RGB10p32, YUV422_8_UVYV, YUV422_8 (visible) Mono8, Mono10Packed (NIR)
Object illuminance (min.)		214.5 lx @ 7800 K (Gain 30 dB, 525 μs exp., 50% video, f/2.8)
Responsivity		RGB: 41 DN/nj/cm <sup>2</sup> @ 550 nm (G channel) NIR: 24 DN/nj/cm <sup>2</sup> @ 800 nm(10-bit, 0 dB gain)
暗時 S/N比		G-ch : 53dB以上 (Gain = 0 dB, 10bit, 露光時間=525μs, IndividualGainMode=off) NIR-ch : 55dB以上 (Gain = 0 dB, 10bit, 露光時間=525μs, IndividualGainMode=off)
トリガ入力		1 Opto In + 1 TTL via 12-pin, 2 TTL via 10-pin, Pulse Generator (4), NAND Out (2), Action (4), User Out (4)
ゲイン		Digital Master: 0 to +30 dB, R/B/NIR: -4 to +12 dB Digital Individual: 0 to +36 dB
ホワイトバランス		Manual/one-push auto by gain or exposure
ガンマ		0.45 to 1.0 (9 steps) or 257-point LUT
ビデオプロセッシング		PRNU/DSNU, black level, fla shading and color shading correction, chromatic aberration adjust- ment, horizontal mirroring
色空間データフォーマット 変換		RGB or RGBa8 to HSI, XYZ (CIE), sRGB, Adobe RGB, or User Custom RGB
露光モード / 露光時間		Off / Timed / Trigger Width Timed: 3.0 μs ~ 15.149 ms Trigger Width: 1.8 μs ~ 15
PTP		Support for Precision Time Protocol (IEEE 1588)
レンズマウント		M52 mount or Nikon F-mount (46.5 mm flange back for both mounts)
動作温度		-5°C ~ +45°C / 20% ~ 80% (ただし結露なきこと) (設置環境により変わることがあります)
保存温度		-25°C to +60°C (20 to 80% non condensing)
耐振動		3G (20 Hz to 200 Hz, XYZ directions)
耐衝撃		50 G
規格		CE (EN 55032:2015(CISPR32:2015), EN 55035:2017(CISPR35:2016)) FCC Part 15 Class B, RoHS/WEEE
電源電圧	12-pin: POE	+10V to +25V DC. 19.3W typical @ 12V Not supported.
外形寸法 (H x W x L)		90 mm x 90 mm x 120 mm (without connector and lens mount protrusions)
重量		980 g

モデル	
10GE	
SW-8000Q-10GE-F	4-CMOSプリズムラインスキャンカメラ (Fマウント)
SW-8000Q-10GE-M52	4-CMOSプリズムラインスキャンカメラ (M52マウント)
SFP	
SW-8000Q-SFP-F	4-CMOSプリズムラインスキャンカメラ (Fマウント)
SW-8000Q-SFP-M52	4-CMOSプリズムラインスキャンカメラ (M52マウント)



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▪ 4 x 4096 pixels

▪ 72 kHz

Sweep+ Series 

## ➤ SW-4000Q-SFP

4-CMOS prism line scan camera

**GigE**  
VISION



- 4 x 4096 pixel prism-based line scan camera
- Provides 10GBASE-R (fiber optic) output over SFP+ interface
- Max. line rate of 72 kHz for RGB8 + NIR dual-stream output
- Prism technology for superior color quality and alignment of visible + NIR channels
- Optimized for applications with fixed and varying object speeds
- Newly developed “state of the art” CMOS sensors
- Selectable pixel size - 7.5 x 7.5  $\mu\text{m}$  or 7.5 x 10.5  $\mu\text{m}$
- Supports vertical dual-line binning, 2x horizontal binning, or both
- 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
- GigE Vision 2.0 interface with choice of single-stream or dual-stream output
- Output formats include 3 x 8-bit or 3 x 10-bit RGB, 8-bit YUV, and 8-bit/10-bit NIR
- Excellent shock and vibration resistance



# Specifications for SW-4000Q-SFP

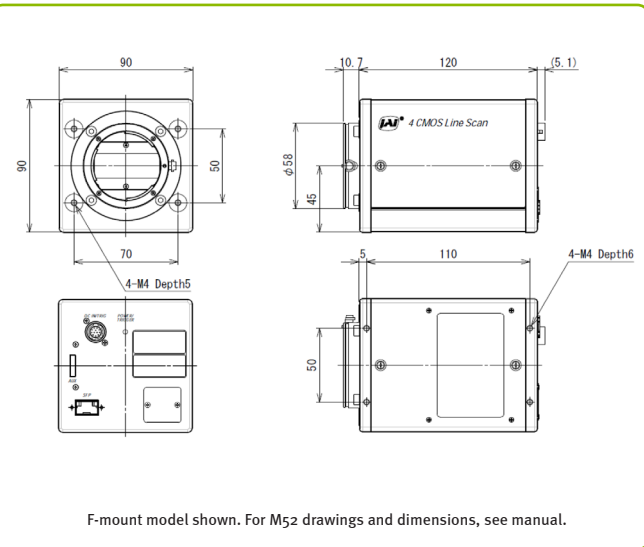
# Sweep+ Series

Specifications	SW-4000Q-SFP
Scanning system	4 high-speed CMOS line sensors, prism-mounted
Active pixels	4 x 4096 pixels (R, G, B, NIR)
Line rate (full width)	Up to 72 kHz (variable) for 8-bit RGB + NIR 74 kHz possible with YUV compression
Sensor width	30.72 mm
Pixel size	Mode A: 7.5 μm x 7.5 μm Mode B: 7.5 μm x 10.5 μm
Ethernet speed	10GBASE-SR / 10GBASE-LR / 10GBASE-ER
Video output	Single stream: RGBa8 Two streams: RGB8, RGB10V1Packed, RGB10p32, YUV422_8_UVYV, YUV422_8 (visible) Mono8, Mono10Packed (NIR)
Object illuminance (min.)	300 lx @ 7800 K, Mode A (Gain 18 dB, 525 μs exp., 50% video, f/2.8)
Responsivity	RGB: 118 DN/nJ/cm² @ 550 nm (G channel) NIR: 64 DN/nJ/cm² @ 800 nm (Mode A, 10-bit, 0 dB gain)
S/N ratio	>55 dB on green, 10-bit with 0 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	Analog Base Gain: 0 dB / 6 dB / 12 dB Digital Master: 0 to +18 dB, R/B/NIR: -4 to +12 dB Digital Individual: 0 to +24 dB
White balance	Manual/one-push auto by gain or exposure
Gamma	0.45 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
Color space conversion	RGB or RGBa8 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 13889 μs in 1 μs increments at 72 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	M52 mount or Nikon F-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	50G
Regulations	CE (EN61000-6-2, EN61000-6-3) FCC Part 15 Class B, RoHS/WEEE
Power	12-pin PoE +10V to +25V DC. 17.4 W typical @ 12V Not supported.
Dimensions (H x W x L)	(without connector and lens mount protrusions) 90 mm x 90 mm x 120 mm
Weight	980 g

## Ordering Information

SW-4000Q-SFP-F	4-CMOS prism line scan camera with F-mount
SW-4000Q-SFP-M52	4-CMOS prism line scan camera with M52 mount

## Dimensions (F-mount)



## Connector pin-out

### DC In / Trigger

HIROSE HR10A-10R-12PB(71)

Pin	Description
1	Ground
2	DC in +10V to +25V
3	Ground
4	Reserved
5	Opto in 1-
6	Opto in 1+
7	TTL out 4
8	NC
9	TTL out 1
10	TTL in 1
11	DC in +10V to +25V
12	Ground

### SFP+ Interface

SFP

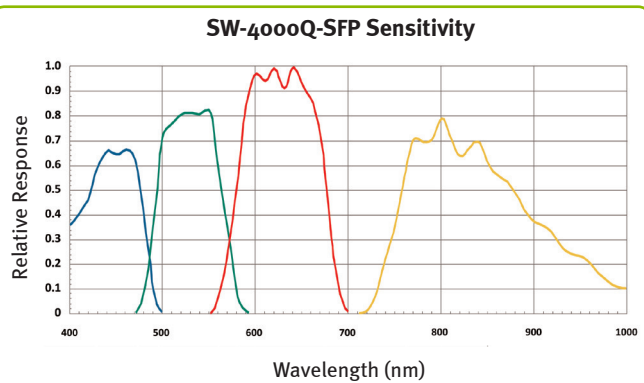
SFP+ transceiver module must support:

- 10GBASE-R
- Power level 1

Maximum fiber optic cable lengths

- » 10GBASE-SR: 300m (cable type OM3)
- » 10GBASE-SR: 400m (cable type OM4)
- » 10GBASE-LR: 10km (cable type OS2)
- » 10GBASE-ER: 40km (cable type OS2)

## Spectral response



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November 2019

▪ 3 x 4096 pixels

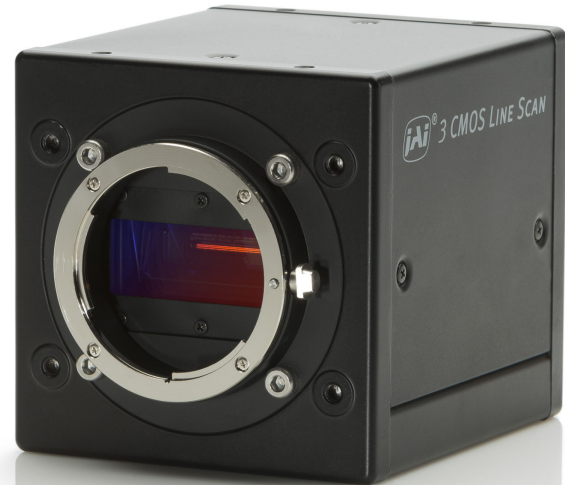
▪ 97 kHz

Sweep+ Series 

## ➤ SW-4000T-SFP

3-CMOS prism line scan camera

**GigE**<sup>®</sup>  
VISION



- 3 x 4096 pixel prism-based line scan camera
- Provides 10GBASE-R (fiber optic) output over SFP+ interface
- Max. line rate of 97 kHz for RGB8 output, 147 kHz for YUV422 (8-bit) output
- Prism technology for superior color quality and better color differentiation
- Optimized for applications with fixed and varying object speeds
- Newly developed “state of the art” CMOS sensors
- Selectable pixel size - 7.5 x 7.5  $\mu\text{m}$  or 7.5 x 10.5  $\mu\text{m}$
- Supports vertical dual-line binning, 2x horizontal binning, or both
- 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
- GigE Vision 2.0 interface with selectable YUV, 3 x 8-bit RGB, or 3 x 10-bit RGB
- Excellent shock and vibration resistance



# Specifications for SW-4000T-SFP

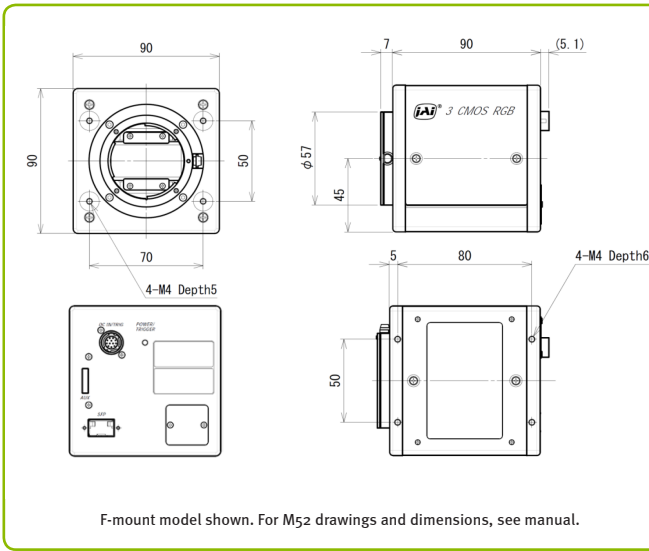
# Sweep+ Series

Specifications	SW-4000T-SFP
Scanning system	3 high-speed CMOS line sensors, prism-mounted
Active pixels	3 x 4096 pixels (R, G, B)
Line rate	Up to 97 kHz (variable) Faster line rates possible with YUV compression
Sensor width	30.72 mm
Pixel size	Mode A: 7.5 µm x 7.5 µm Mode B: 7.5 µm x 10.5 µm
Ethernet speed	10GBASE-SR / 10GBASE-LR / 10GBASE-ER
Video output	RGB8, RGB10V1Packed, RGB10p32, YUV422_8_UVYV, YUV422_8
Object illuminance (min.)	220 lx @ 7800 K, Mode A (Gain 18 dB, 525 µs exp., 50% video, RGB8)
Responsivity	123 DN/nJ/cm <sup>2</sup> (G channel, Mode A, 10-bit @ 550 nm, 0 dB gain)
S/N ratio	>55 dB on green, 10-bit with 0 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)
Outputs	2 TTL via 12-pin, 2 TTL via 10-pin
Gain	Analog Base Gain: 0 dB / 6 dB / 12 dB Digital Master: 0 to +18 dB, R/B: -7.96 to +12 dB Digital Individual: 0 to +24 dB
White balance	Manual/one-push auto by gain or exposure
Gamma	0.45 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
Color space conversion	RGB to HSI, RGB to XYZ (CIE), sRGB, Adobe RGB, or User Custom RGB
Exposure modes	No shutter, timed, and trigger width control
Electronic shutter	3 µs to 10.3 µs in 10 ns increments at fastest line rate. 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	M52 mount or Nikon F-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	50G
Regulations	CE (EN61000-6-2, EN61000-6-3) FCC Part 15 Class B, RoHS/WEEE
Power	12-pin PoE +10V DC 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	830 g

## Ordering Information

SW-4000T-SFP-F	3-CMOS prism line scan camera with F-mount
SW-4000T-SFP-M52	3-CMOS prism line scan camera with M52 mount

## Dimensions (F-mount)



## Connector pin-out

### DC In / Trigger

HIROSE HR10A-10R-12PB(71)

Pin	Description
1	Ground
2	DC in +12V to +24V
3	Ground
4	Reserved
5	Opto in 1-
6	Opto in 1+
7	TTL out 4
8	NC
9	TTL out 1
10	TTL in 1
11	DC in +12V to +24V
12	Ground

### SFP+ Interface

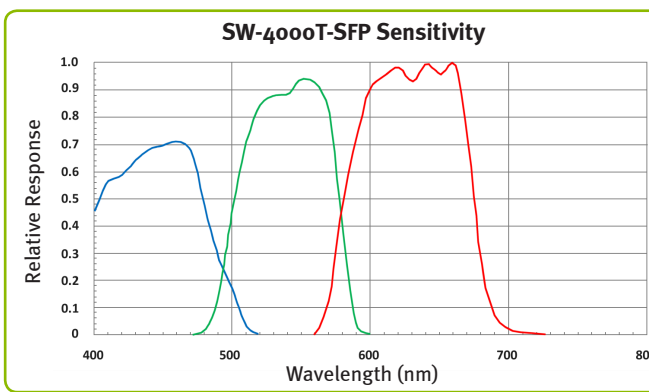
SFP+ transceiver module must support:

- 10GBASE-R
- Power level 1

Maximum fiber optic cable lengths

- » 10GBASE-SR: 300m (cable type OM3)
- » 10GBASE-SR: 400m (cable type OM4)
- » 10GBASE-LR: 10km (cable type OS2)
- » 10GBASE-ER: 40km (cable type OS2)

## Spectral response



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▶ **SW-8000T-10GE**  
3CMOS プリズムラインスキャンカメラ

**GiGE**<sup>TM</sup>  
VISION



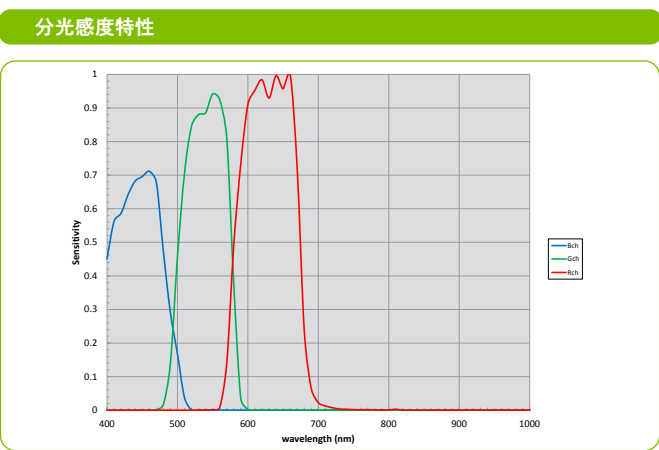
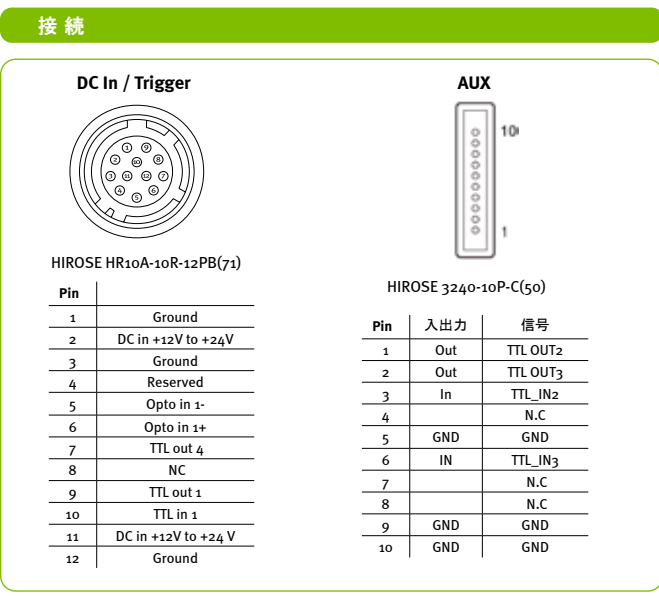
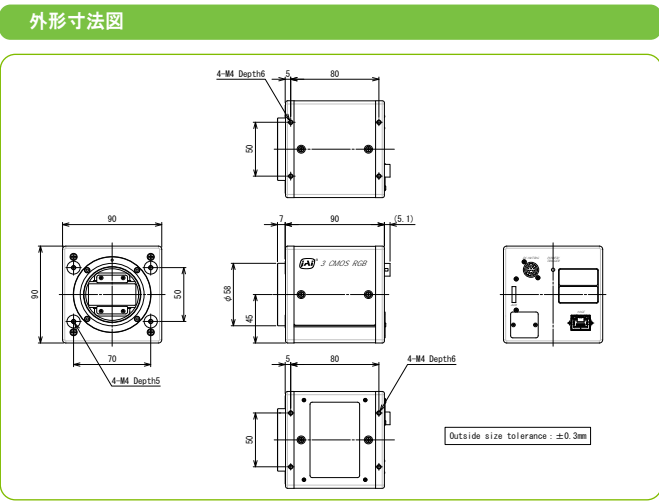
I/Fに10GBase-Rを採用した  
カメラにダイレクトに光I/Fモジュールの接続可能なモデル  
SW-8000T-SFP もラインナップ



- クラス世界最高速8192pixels x 3CMOS プリズム式 ラインスキャンカメラ
- ダイクロイックプリズムにより独立した3つのセンサ(RGB)用の3つの成分に分解
- プリズム方式による高度な色再現性を実現
- 最新技術を用い新規に開発されたCMOSセンサを搭載
- 画素サイズ 3.75 μm x 5.78μm
- 垂直ビニング、水平ビニングをサポート
- 10ギガビット・イーサネットI/Fを採用
- 最大ラインレート PixelFormat YUV422 : 73 kHz  
PixelFormat RGB8 : 49 kHz
- フラットシェーディング、カラーシェーディングをサポート
- 色空間データフォーマット変換 (HSI, XYZ, sRGB, Adobe RGB)
- ロータリーエンコーダとの接続をサポート
- 多様なtrigger optionをサポート
- 映像出力 (3 x 8-bit, 3 x 10-bit)
- 優れた耐衝撃性、耐振動性
- GenICam準拠

仕様		SW-8000T-10GE
撮像素子		3 high speed CMOS line sensors, prism-mounted
有効画素数		8192 (h) x 3 (R,G,B)
画素サイズ		3.75 μm x 5.78 μm
センササイズ		30.72 mm
映像出力		RGB8, RGB10V1Packed, RGB10p32, YUV422_8_UYVY, YUV422_8
ピンング		2X1, 1X2, 2X2
最大ラインレート		73 kHz (YUV422), 49 kHz (RGB8)
Object illuminance (std.)		157.3 lx @ 7800 K (Gain 30 dB, 525 μs exp., 50% video, f/2.8)
Responsivity		43 DN/nJ/cm <sup>2</sup> (G channel, 10-bit @ 550 nm, 0 dB gain)
暗時 S/N比		G-ch : 54dB以上 (Gain = 0 dB, 10bit, 露光時間 = 525μs, IndividualGainMode=off)
GPIO	Inputs	12pin: Opto Coupled (1), TTL (1) AUX: TTL (2)
	Outputs	12-Pin: TTL (2) AUX: TTL (2)
露光モード / 露光時間		Off / Timed / Trigger Width Timed: 3.0 μs ~ 15.149 ms Trigger Width: 1.8 μs ~ 1s
ビデオプロセッシング機能		
シェーディング補正		Flat shading, Color shading
Gain		Digital Master : 0 to +30dB, R/B : -7.96 to +12dB Digital Individual : 0 to +36dB
ホワイトバランス		Off / Once / ExposureOnce / Preset (5000K, 6500K, 7500K) Control range 4000K ~ 9000K
LUT Programmable		257 point
ガンマ		0.45 ~ 1.0 / 9 step
FPN correction		PRNU, DSNU
色空間データフォーマット変換		HSI, XYZ, sRGB, Adobe RGB, User Custom RGB
インタフェース		10 Gigabit Ethernet, (1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T) 12-pin, Auxiliary (AUX) connector
性能保証動作温度 / 湿度		-5°C ~ +45°C / 20% ~ 80% (ただし結露なきこと) (設置環境により変わることがあります)
保存温度		-25°C to +60°C
湿度		20 - 80% (ただし結露なきこと)
耐振動		3G (20 Hz to 200 Hz XYZ方向)
耐衝撃		50 G
規格		CE (EN 61000-6-2, EN 61000-6-3), FCC part 15 class B, RoHS/WEEE
電源電圧	12-pin: PoE+	DC+10~+25V 13.7W typical @ 12V 42V ~ 57V 15.3W (typ.)
レンズマウント		F-Mount (フランジバック 46.5mm), M52-Mount (フランジバック 46.5mm)
外形寸法 (H x W x L)		90 mm x 90 mm x 90 mm
重量		840 g (typ.)

モデル	
10GE	
SW-8000T-10GE-F	3-CMOSプリズムラインスキャンカメラ (Fマウント)
SW-8000T-10GE-M52	3-CMOSプリズムラインスキャンカメラ (M52マウント)
SFP	
SW-8000T-SFP-F	3-CMOSプリズムラインスキャンカメラ (Fマウント)
SW-8000T-SFP-M52	3-CMOSプリズムラインスキャンカメラ (M52マウント)



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▪ 3 x 4096 pixels

▪ 66 kHz

Sweep Series



## ➤ SW-4000TL-SFP

High speed CMOS trilinear camera

**GIG**  
VISION



- **Newly developed “state of the art” CMOS trilinear sensor**
- **Provides 10GBASE-R (fiber optic) output over SFP+ interface**
- **Max. line rate of 66 kHz for 3 x 4096 RGB8 or YUV422 (8-bit) output**
- **Horizontal and vertical binning functions**
- **Intelligent sub-pixel spatial compensation and tilted view correction**
- **HSI and XYZ color space conversion**
- **Large variety of trigger options**
- **Supports direct encoder connection to camera**
- **Excellent shock and vibration resistance**
- **Compact size and high robustness for industrial environments**
- **Time stamping of line data and Precision Time Protocol support**
- **GigE Vision 2.0 interface with selectable YUV, 3 x 8-bit RGB, or 3 x 10-bit RGB**



# Specifications for SW-4000TL-SFP

# Sweep Series

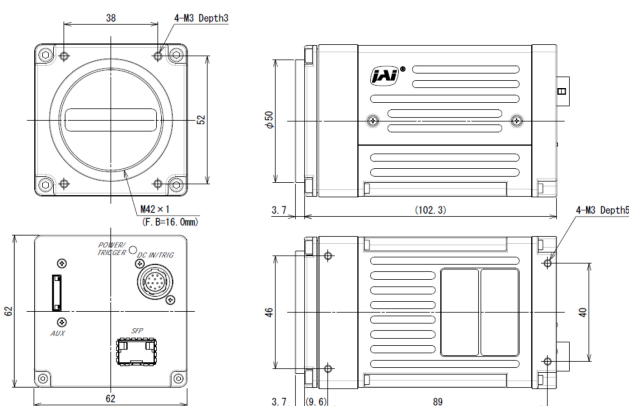
Specifications	SW-4000TL-SFP
Scanning system	Trilinear CMOS line scan
Active pixels	3 x 4096 pixels (R, G, B) in trilinear configuration
Line rate	Up to 66.6 kHz (variable)
Sensor width	30.72 mm
Pixel size	7.5 µm x 7.5 µm
Ethernet speeds	10GBASE-SR / 10GBASE-LR / 10GBASE-ER
Video output	RGB8, RGB10V1Packed, RGB10p32, YUV422_8_UVYV, YUV422_8
Object illuminance (min.)	220 lx @ 7800 K (Gain 18 dB, 525 µs exp., 50% video, RGB8)
Responsivity	127 DN/nj/cm <sup>2</sup> (G ch 10-bit @ 550 nm)
S/N ratio	57 dB on green, dark level, 10-bit with 0 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)
Outputs	2 TTL via 12-pin, 2 TTL via 10-pin
Gain	Analog Base Gain: 0 dB / 6 dB / 12 dB Digital Master: 0 to +18 dB, R/B: -7.96 to +12 dB Digital Individual: 0 to +24 dB
Gamma	0.45 to 1.0 (9 steps) or 257-point LUT
Image processing	PRNU/DSNU, black level, shading, tilted view, spatial compensation, chromatic aberration
Color space conversion	RGB to HSI, RGB to XYZ (CIE), sRGB, Adobe RGB, or User Custom RGB
Exposure modes	No shutter, shutter select, and trigger width control
Electronic shutter	3 µs to 15.015 µs in 1 µs increments at fastest line rate. Exposure time can be longer at slower line rates.
Pulse width control	3 µs to 2 sec (via Camera Link) 1.8 µs to 2 sec (via 12-pin/10-pin connectors)
Time synchronization	Support for Precision Time Protocol (IEEE 1588)
Lens mount	M42 mount or Nikon F-mount
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	80G
Regulations	CE (EN61000-6-2, EN61000-6-3) FCC Part 15 Class B, RoHS/WEEE
Power	12-pin +10V to +25V DC
Power consumption	8.0 W typical @ +12V
Dimensions (H x W x L)	(excluding rear connector protrusion) M42 mount 62 mm x 62 mm x 106 mm F-mount 62 mm x 62 mm x 136.5 mm
Weight	M42 mount 340 g F-mount 410 g

## Ordering Information

SW-4000TL-SFP-F	CMOS trilinear RGB camera with F-mount
SW-4000TL-SFP-M42A	CMOS trilinear RGB camera with M42 mount <sup>1</sup>

<sup>1</sup>M42 x 1 with 16 mm flange back distance

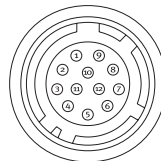
## Dimensions (M42)



M42 model shown. For F-mount drawings and dimensions, see manual.

## Connector pin-out

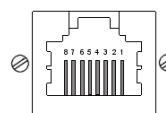
### DC In / Trigger



HIROSE HR10A-10R-12PB(71)

Pin	Signal
1	Ground
2	DC in +12V to +24V
3	Ground
4	Reserved
5	Opto in 1-
6	Opto in 1+
7	TTL out 4
8	NC
9	TTL out 1
10	TTL in 1
11	DC in +12V to +24 V
12	Ground

### GigE Vision Interface

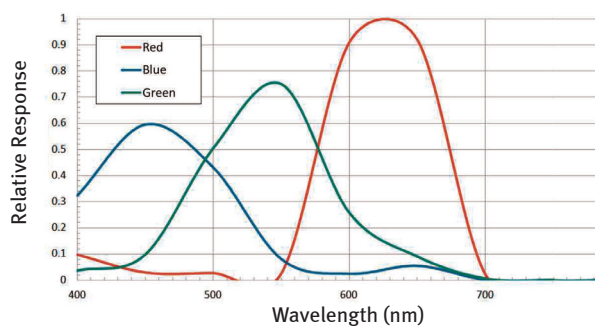


RJ-45 with locking screws

Pin	Signal
1	TRD+ (0)
2	TRD- (0)
3	TRD+ (1)
4	TRD+ (2)
5	TRD- (2)
6	TRD- (1)
7	TRD+ (3)
8	TRD- (3)

## Spectral response

### SW-4000TL-10GE Sensitivity



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