

Sweep Series

2K, 4K, 8K & 16K single sensor
trilinear, bilinear, and monochrome
line scan cameras



Attractive price levels, compact design,
large pixels, high scan rates



Single sensor line scan cameras

SWEEP 2K

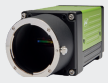
**Trilinear Color R/G/B:****SW-2005TL-CXP & SW-2005TL-5GE**

2K resolution (3 x 2048 pixels)
44 kHz scan rate (44,000 lines/s)
7 µm square pixel size

**Monochrome:****SW-2005M-CXP & SW-2005M-5GE**

2K resolution (2048 pixels)
172 kHz scan rate (172,000 lines/s)
7 µm square pixel size

SWEEP 4K

**Trilinear Color R/G/B:****SW-4000TL-10GE/SFP & SW-4000TL-PMCL**

4K resolution (4096 pixels)
66 kHz scan rate (65,963 lines/s)
7.5 µm square pixel size

**Bilinear Color R/G/B:****SW-4005BL-5GE & SW-4005BL-CXP**

4K resolution (2 x 4096 pixels)
42 kHz scan rate (42,000 lines/s)
3.5 µm square pixel size

**Monochrome:****SW-4005M-5GE & SW-4005M-CXP**

4K resolution (4096 pixels)
84 kHz scan rate (84,000 lines/s)
3.5 µm square pixel size

**Monochrome****SW-4000M-PMCL**

4K resolution (4096 pixels)
200 kHz scan rate (200,000 lines/s)
7.5 µm square pixel size

SWEEP 8K

**Trilinear Color R/G/B:****SW-8001TL-MCL**

8K resolution (3 x 8192 pixels)
33 kHz scan rate (33,000 lines/s)
7 µm square pixel size

**Monochrome****SW-8001M-MCL**

8K resolution (8192 pixels)
100 kHz scan rate (100,000 lines/s)
7 µm square pixel size

**Monochrome****SW-8000M-MCL**

8K resolution (8192 pixels)
100 kHz scan rate (100,000 lines/s)
3.75 µm x 5.78 pixels

SWEEP 16K

**Trilinear Color R/G/B:****SW-16000TL-CXP4A**

16K resolution (3 x 16,384 pixels)
100 kHz scan rate (100,000 lines/s)
5 µm square pixel size

**Monochrome****SW-16000M-CXP4A**

16K resolution (16,384 pixels)
277 kHz scan rate (277,000 lines/s)
5 µm square pixel size

**Monochrome****SW-16001M-MCL**

16K resolution (16,384 pixels)
50 kHz scan rate (50,000 lines/s)
3.5 µm square pixel size

Application examples

The Sweep Series is the ideal choice for industrial imaging applications where high-speed inspection of continuously moving materials and products is essential:



Food sorting

High-speed imaging for detecting, grading, and sorting food products based on quality and visual characteristics.



Wood inspection

High-speed inspection of wood surfaces for defects, color variations, and quality irregularities.

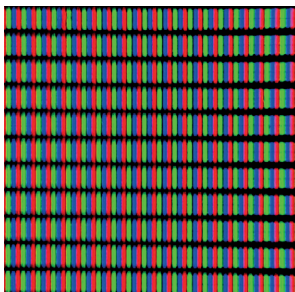
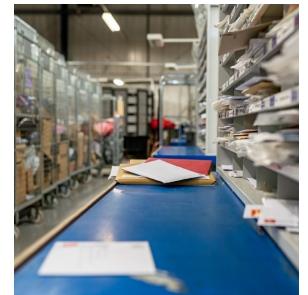
Battery inspection

Inspect battery materials and components for defects and production inconsistencies at high speed.



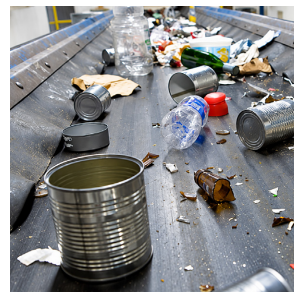
Logistics

Capture barcodes, labels, and package information on fast-moving items for reliable identification and tracking.



Display inspection

Detect defects and uniformity issues across displays and large electronic surfaces with high precision.



Waste sorting

Identify and classify materials on fast-moving conveyor lines for efficient automated sorting.

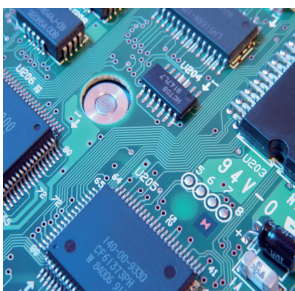
Print inspection

Detect print defects, color variations, and registration errors on continuously moving printed materials.



Glass inspection

Identify surface defects and imperfections in glass during high-speed production.



PCB inspection

Detect component, soldering, and surface defects on printed circuit boards with high-resolution imaging.



Web inspection

Detect defects and quality variations across continuously produced materials such as film, paper, foil, and textiles.

Trilinear and bilinear line scan cameras (All models)

Model	Front view (Lens mount)	Resolution (Pixels/line)	Line rate lps (kHz)	Sensor format	Pixel size (μm)	Data output (bit)	Color/ Mono	Interface
SW-2005TL-5GE NEW		2K	44,000 (44 kHz)	14.336 mm Trilinear CMOS	7.0 x 7.0	8/10/12	Trilinear- color	GigE Vision (5GBASE-T)
SW-2005TL-CXP NEW		2K	44,000 (44 kHz)	14.336 mm Trilinear CMOS	7.0 x 7.0	8/10/12	Trilinear- color	CoaXPress CXP-6 1-connector
SW-4005BL-5GE NEW		4K	42,000 (42 kHz)	14.336 mm Bilinear CMOS	3.5 x 3.5	8/10/12	Bilinear- color	GigE Vision (5GBASE-T)
SW-4005BL-CXP NEW		4K	42,000 (42 kHz)	14.336 mm Bilinear CMOS	3.5 x 3.5	8/10/12	Bilinear- color	CoaXPress CXP-6 1-connector
SW-4000TL-10GE		4K	65,963 (66 kHz)	30.72 mm Trilinear CMOS	7.5 x 7.5	8/10	Trilinear- color	GigE Vision (10GBASE-T)
SW-4000TL-SFP		4K	65,963 (66 kHz)	30.72 mm Trilinear CMOS	7.5 x 7.5	8/10	Trilinear- color	GigE Vision (10GBASE-T via SFP+)
SW-4000TL-PMCL		4K	65,963 (66 kHz)	30.72 mm Trilinear CMOS	7.5 x 7.5	8/10	Trilinear- color	Power over Mini Camera Link Deca
SW-8001TL-MCL NEW		8K	33,000 (33 kHz)	57.344 mm Trilinear CMOS	7.0 x 7.0	8	Trilinear- color	Mini Camera Link Deca
SW-16000TL-CXP4A		16K	100,000 (100 kHz)	81.92 mm Trilinear CMOS	5.0 x 5.0	8/10/12	Trilinear- color	CoaXPress CXP-12 4-connectors

Monochrome line scan cameras (All models)

Model	Front view (Lens mount)	Resolution (Pixels/line)	Line rate lps (kHz)	Sensor format	Pixel size (μm)	Data output (bit)	Color/ Mono	Interface
SW-2005M-5GE NEW		2K	172,000 (172 kHz)	14.336 mm CMOS	7.0 x 7.0	8/10/12	Mono	GigE Vision (5GBASE-T)
SW-2005M-CXP NEW		2K	172,000 (172 kHz)	14.336 mm CMOS	7.0 x 7.0	8/10/12	Mono	CoaXPress CXP-6 1-connector
SW-4005M-5GE NEW		4K	84,000 (84 kHz)	14.336 mm CMOS	3.5 x 3.5	8/10/12	Mono	GigE Vision (5GBASE-T)
SW-4005M-CXP NEW		4K	84,000 (84 kHz)	14.336 mm CMOS	3.5 x 3.5	8/10/12	Mono	CoaXPress CXP-6 1-connector
SW-4000M-PMCL		4K	200,000 (200 kHz)	30.72 mm CMOS	7.5 x 7.5	8/10	Mono	Power over Mini Camera Link Deca
SW-8000M-PMCL		8K	100,000 (100 kHz)	30.72 mm CMOS	3.75 x 3.75	8/10	Mono	Power over Mini Camera Link Deca
SW-8001M-MCL NEW		8K	100,000 (100 kHz)	57.344 mm CMOS	7.0 x 7.0	8/10/12	Mono	Mini Camera Link Deca
SW-16000M-CXP4A NEW		16K	277,000 (277 kHz)	81.92 mm CMOS	5.0 x 5.0	8/10/12	Mono	CoaXPress CXP-12 4-connectors
SW-16001M-MCL NEW		16K	50,000 (50 kHz)	57.344 mm CMOS	3.5 x 3.5	8/10	Mono	Mini Camera Link Deca

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See the possibilities