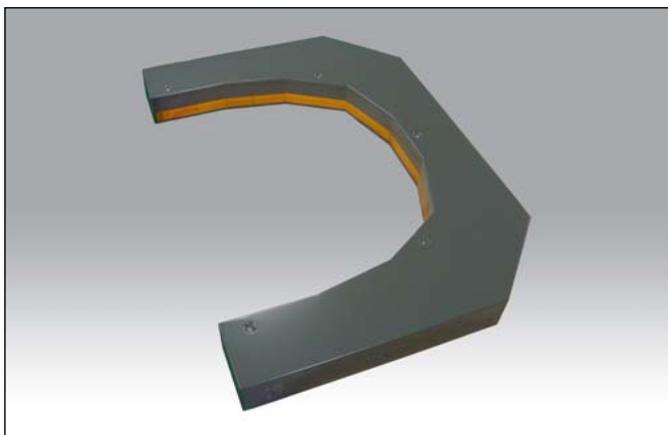


Nondestructive X-ray inspection

C-shaped X-ray line scan camera

C9750-27FCC,-27FCD



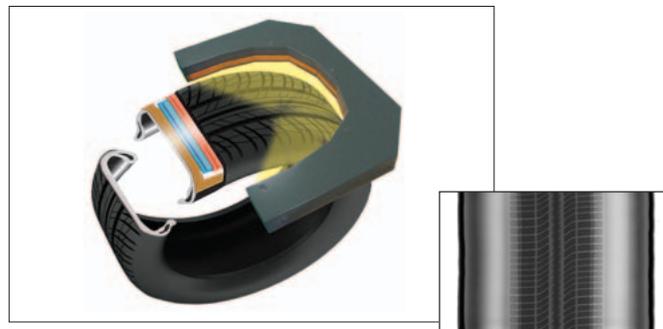
The C-shaped X-ray line scan camera is to meet the demands in the tire inspection. It is based on the Hamamatsu C9750 series X-ray line scan camera technologies, and it offers an image of 3456 pixels resolution horizontally with no gap (<1 pixel) for whole effective area while the tire rotate one revolution.

The high sensitivity and wide intensity dynamic range provide fast and excellent detectability for reliable inspection.

FEATURES

- Sensitivity range: 25 kV to 160 kV
- Pixel pitch: 0.4 mm
- Line speeds: 4 m/min to 36 m/min
- A/D conversion: 12 bit
- RS-422, Camera Link (Option)

EXAMPLE OF USAGE



▲ Sample image

SPECIFICATIONS

Type number	C9750-27FCC, -27FCD ^①	
Detection method	Scintillator method	
Scintillator	Gd-scintillator	
Recommended use range	Approx. 25 kV to 160 kV	
Sensor element pitch	0.4 mm	
Detection width	1382.4 mm, 3456 pixel	
Line speed ^②	4 m/min to 36 m/min (0.167 kHz to 1.500 kHz, PCLK5.33 MHz)	
A/D converter	12 bit	
Digital interface ^③	RS-422 (standard)	
External control	RS-232C	
Output signals	Image data	12 bit digital output RS-422
	Synchronization signal	VALID signals RS-422
		CLK signal (5.33 MHz) ^④
Ambient storage temperature	-10 °C to +50 °C	
Ambient operating temperature	0 °C to +40 °C	
Ambient operating and storage humidity	30 % to 80 % (no condensation)	
Power supply ^④	DC+15 V / DC+5 V	

① The difference of C9750-27FCC and C9750-27FCD depends on the location of connectors.

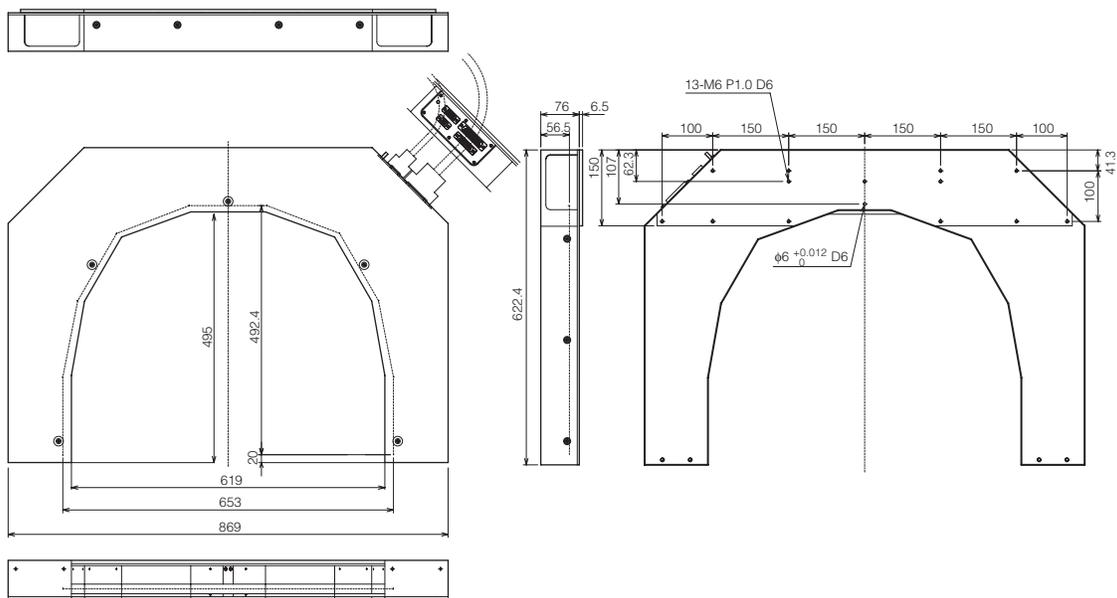
② Even when conveyor speed becomes faster than the line speed the detection can be done.*OPTION : 4 m/min. to 54 m/min.(0.167 kHz to 2.292 kHz) (PCLK8.0 MHz)

③ Camera Link interface (M10389-01) is available as option. When X64 or Xcelera is used the M10389-01A is necessary as option. (CLK signal: 20 MHz)

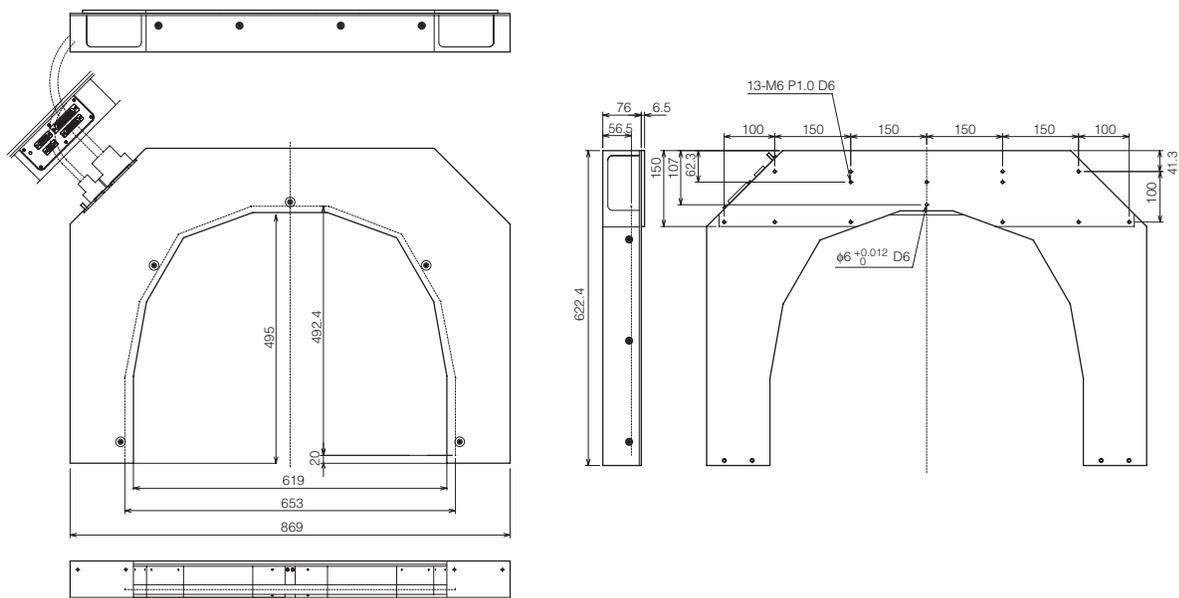
④ AC adapter (A8206-21) is available as option.

DIMENSIONAL OUTLINE (Unit : mm)

● C9750-27FCC (Approx. 25 kg)



● C9750-27FCD (Approx. 25 kg)



*Please consult Hamamatsu for X-ray irradiation allowance area

- ★ **Product and software package names noted in this documentation are trademarks or registered trademarks of their respective manufacturers.**
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- Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications and external appearance are subject to change without notice.
- Please note the X-Ray images on this brochure are taken for test purpose, the images do not reflect actual qualities of the products on the market.

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HAMAMATSU PHOTONICS K.K. www.hamamatsu.com

HAMAMATSU PHOTONICS K.K., Systems Division

812 Joko-cho, Higashi-ku, Hamamatsu City, 431-3196, Japan, Telephone: (81)53-431-0124, Fax: (81)53-435-1574, E-mail: export@sys.hpk.co.jp

U.S.A.: Hamamatsu Corporation: 360 Foothill Road, Bridgewater, N.J 08807, U.S.A., Telephone: (1)908-231-0960, Fax: (1)908-231-1218 E-mail: usa@hamamatsu.com

Germany: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-265-8 E-mail: info@hamamatsu.de

France: Hamamatsu Photonics France S.A.R.L.: 19, Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: (33)1 69 53 71 00, Fax: (33)1 69 53 71 10 E-mail: info@hamamatsu.fr

United Kingdom: Hamamatsu Photonics UK Limited: 2 Howard Court, 10 Tewin Road, Welwyn Garden City, Hertfordshire AL7 1BW, UK, Telephone: (44)1707-294888, Fax: (44)1707-325777 E-mail: info@hamamatsu.co.uk

North Europe: Hamamatsu Photonics Norden AB: Torshamnsgatan 35 16440 Kista, Sweden, Telephone: (46)8-509-031-00, Fax: (46)8-509-031-01 E-mail: info@hamamatsu.se

Italy: Hamamatsu Photonics Italia S.r.l.: Strada della Moia, 1 int. 6 20020 Arese (Milano), Italy, Telephone: (39)02-93581733, Fax: (39)02-93581741 E-mail: info@hamamatsu.it

China: Hamamatsu Photonics (China) Co., Ltd.: B1201 Jiaming Center, No.27 Dongshanhuan Beilu, Chaoyang District, Beijing 100020, China, Telephone: (86)10-6586-6006, Fax: (86)10-6586-2866 E-mail: hpc@hamamatsu.com.cn

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