TAKEX

Camera Link compliant, 12megapixels, 20 frame/sec FCM12MPL Monochrome PROGRESSIVE SCAN CAMERA FSM12MPL Color



Lens: optional

Overview

- The FC (S) M12MPL is a monochrome (color) progressive camera equipped with a high sensitivity and high-resolution CMOS sensor.
- Outputs progressive images in 20fps, with 12million pixels.
- The noise is reduced by adopting the rolling shutter receiving light at a large area.
- Digital image signal is output in 12/10/8-bit format complying with Camera Link.
- By global reset using a strobe light simultaneously, the random shutter (async reset) works like a global shutter mode.

Features

- Either normal Camera Link board or PoCL board (with power over-lapping) can be connected.
- The high-sensitivity CMOS sensor enables the adoption of general purpose C-mount, despite the12 million highpixels
- The Full Configuration (with two Camera Link cables) for a high-speed reading applications, or the Base Configuration (with single Camera Link cable) in a low-speed reading application, can be selected depending on the application.
- Reduced size and weight by original mechanism and electrical circuit design.

Applications

- Input device for electronic shutter image processor
- Appearance inspection device
- Monitoring equipment
- Inspection device for electronic packaging
- Inspection equipment for liquid crystal panel
- Data entry device for image processing unit employing computer

Global reset shutter

In the global reset mode, all pixels of the sensor are exposed simultaneously.

By combining this feature and external strobe lighting, it is possible to get the equivalent effect to asynchronous shuttering of the global shuttering.



Rolling shutter global reset

Rolling shutter

Туре	FCM12MPL	FSM12MPL
	Monochrome CMOS 1 inch size	Bayer color CMOS 1 inch size
Image sensor	Progressive scanning / Rolling shutter system	
	Unit cell size 3.1μ m $ imes 3.1\mu$ m	
Number of pixels	4,000(H)×3,000(V)	
Sensitivity	1.4V/lx • sec (on the element)	
Saturation exposure	17.8Ke- (on the element)	
Dynamic range	77.4dB (on the element)	
	Progressive scanning : 20 frame/sec. (at 8bit)	
Video output signal	digital output / Camera Link(Base/Full Configuration)	
	8/10/12bit	
Built-in function	Global reset	
Lens mount	C mount	
Electronic shutter	100usec ~ 90msec	
Optical filter	None	
Operation ambient temperature	0 \sim 40°C (with no condensation)	
Power supply	DC12V±10% 200mA or less	
Weight	110 g	
External dimension	48(W)×45(H)×36.7(D) (connector excluded)	

Specifications



It may be changed without a notice about all items (product name, a model, specifications, external form dimensions, materials, the price)explained by this catalogue.
We do not take responsibility about any accident damage by an error in the use of deficiency in the construction and deficiency of the maintenance check and this product, the natural disaster (surge, including lightning-induced).





Headoffice: 86-66, Nomizo-cho, Ohtsuka, Yamashina-ku, Kyoto City 607-8135, JAPAN TEL: +81-75-593-9300 FAX: +81-75-593-9790

E-mail: sales @takex-system.co.jp

TAKENAKA SYSTEM URL: http://www.takex-system.co.jp TAKENAKA SENSOR GROUP URL: http://www.takex.co.jp