

# Product Discontinuation Notices



#### **Product Discontinuation**

Vision Sensors / Machine Vision System

X

STC-MBA5MUSB3 STC-MCA5MUSB3



### Recommended Replacement

Vision Sensors / Machine Vision System

STC-MBS500U3V STC-MCS500U3V

#### [Final order entry date]

The end of April 2024

#### [ Date of The Last Shipping ]

The end of March 2025

#### [ Scheduled date of maintenance close ]

The end of March 2030

#### [ Caution on recommended replacement ]

Since the external dimensions and mounting dimensions are different, please review the installation environment according to the changed camera specifications.

Also, since the specification of the camera are different, the image capture time and image brightness may change depending on the customer's usage environment. Please perform performance verification in advance before using.

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Recommended replacement Model	Body Color	Dimen- sions	Wire connection	Mounting Dimensions	Charac- teristics	Operation ratings	Operation methods	
STC-MBS500U3V	**	*	*	*		*	**	
STC-MCS500U3V	**	*	*	*		*	**	

\*\* : Compatible

\* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[ Product Discontinuation and recommended replacement ]

Product discontinuation	Recommended replacement
STC-MBA5MUSB3	STC-MBS500U3V
STC-MCA5MUSB3	STC-MCS500U3V

#### [ Dimensions ]

# Product discontinuation Model STC-MxA5MUSB3

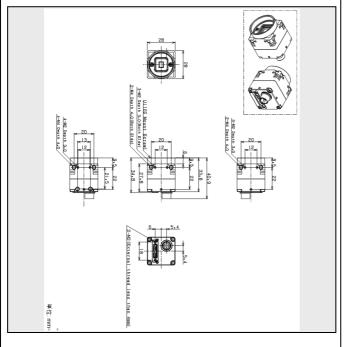
#### Recommendable replacement Model STC-MxS500U3V

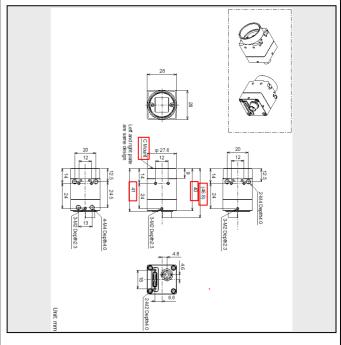
#### **Dimensions**

28 (W) x 28 (H) x 33.8 (D) mm.

#### **Dimensions**

The external dimensions are different. 28 (W) x 28 (H) x 40 (D) mm Lens mount is different.





#### [ Wire connection ]

#### **Product discontinuation** Recommendable replacement Model STC-MxA5MUSB3 Model STC-MxS500U3V I/O Connector **I/O Connector** Three GPIOs, One Camera Hardware Reset Two Inputs and Two Outputs The input/output voltages of the 2nd to 4th pins of the input/output signal connector are different. IO Connector The signals of pin 5 and pin 6 are different. USB 3.0 micro B IO Connector USB 3.0 micro B Connector GND (IO\_GND) +3 to +26.4 V Output 2 (IO3) Output 1 (IO2) OUT +3 to +26.4 V 0.8 \ +1.7 to +5 V Input 2 (IO1) IN +1.7 to +5 V Input 1 (IO0) IN +3 to +26.4 Vdc

#### [ Mounting dimensions ]

#### Product discontinuation Model STC-MxA5MUSB3

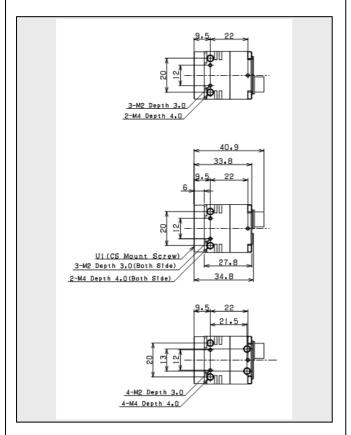
#### Camera fixing screw position

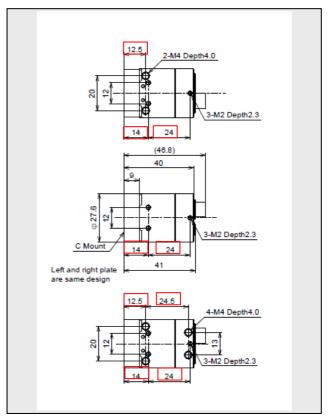
#### Camera fixing screw position

The positions of the screw holes are different.

Recommendable replacement

Model STC-MxS500U3V





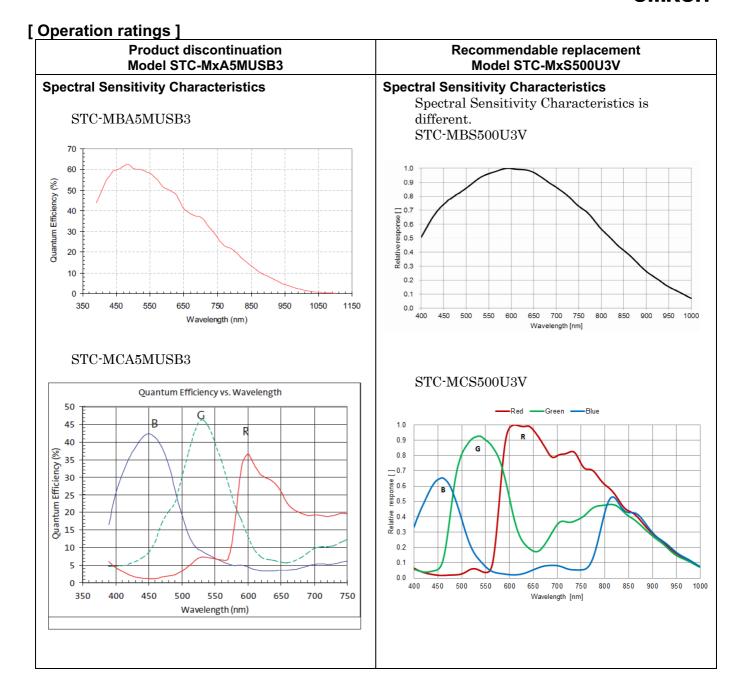
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## [Characteristics]

ltem	Product discontinuation Model STC-MxA5MUSB3	Recommendable replacement Model STC-MxS500U3V		
Image Sensor	1/2.5" 5.03M pixels	2/3" 5.07M pixels		
Shutter Type	Rolling Shutter	Global Shutter		
Active Picture Elements	2,592 (H) x 1,944 (V)	2,448 (H) x 2,048 (V)		
Cell Size	2.2 (H) x 2.2 (V) μm	3.45 (H) x 3.45 (V) µm		
Maximum Frame Rate	14 fps	35.8 fps		
ADC bit width	12bits	10bits / 12bits		
Sensitivity	570 Lux / 1,160 Lux	380 Lux / 1030 Lux		
Exposure Time	32 µseconds to 38 seconds	27.2 µseconds to 56 seconds		
Analog Gain	Analog Gain	0 to 19.2 dB		
Digital Gain	x1 to x4	x1 to x2		
	8bits: 0 to 15 digits	8bits: 0 to 31 digits		
Black Level	10bits: 0 to 63 digits	10bits: 0 to 127 digits		
	12bits: 0 to 255 digits	12bits: 0 to 511 digits		
ROI	Horizontal: 32 to 2,592 pixels / Vertical: 32 to 1,944 lines Adjustable Steps for size: 4 pixels in horizontal direction / 4 lines in vertical direction Adjustable Steps for offset: 2 pixels in horizontal direction / 2 lines in vertical direction	Horizontal: 64 to 2,448 (2,432 on Packed) pixels / Vertical: 32 to 2,048 lines Adjustable Steps for image size:16 pixels in horizontal direction (64 pixels on Packed) / 4 lines in vertical direction Adjustable Steps for offset: 4 pixels in horizontal direction / 4 lines in vertical direction		
Multi ROI	One region	N/A		
Binning	Horizontal: Off, 1/2, 1/4 / Vertical: Off, 1/2, 1/4	Individual x2 Horizontal, x 2 Vertical Binning / Off		
Decimation	Horizontal: Off, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7 / Vertical: Off, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8	Individual x2 Horizontal, x2 Vertical Decimation / Off		
Protocol	Sentech's original protocol (on Standard SDK, Trigger SDK)	USB3 Vision 1.0.1, GenlCam Standard Version (SFNC 2.2, PFNC 2.0) compliant and Sentech's original protocol (on Standard SDK, Trigger SDK)		
Input / Output	Two Inputs and Two Outputs	Three GPIOs, One Camera Hardware Reset		
Consumption	Less than 4.0 W	Max: 3.4 W, Typ: 2.8 W		
Lens Mount	CS Mount	C Mount		
Weight	Approximately 38 g	Approximately 48 g		

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Specifications and prices in this product news are as of the issue date and are subject to change without notice.

Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.