

# VGA/2M/2.4M/4M USB3.0 CMOS Global Shutter

## High-Speed VGA/2M/2.4M/4M CMOS

STC-MBCM33U3V 【VGA Mono】*	STC-MCCM33U3V 【VGA Color】*
STC-MBCM200U3V 【2M Mono】	STC-MCCM200U3V 【2M Color】
STC-MBS241U3V 【2.4M Mono】*	STC-MCS241U3V 【2.4M Color】*
STC-MBCM401U3V 【4M Mono】	STC-MCCM401U3V 【4M Color】

\*VGA & 2.4M In Development

These cameras have been added to Sentech's USB3 Vision camera line up. Using C-MOSIS Sensors, these cameras possess an extremely high frame rate. This camera uses the new USB 3.0 interface, allowing for simple interfacing for the user. Near IR versions are available for the 2M & 4M cameras.

**USB**<sup>TM</sup>  
VISION



### Features

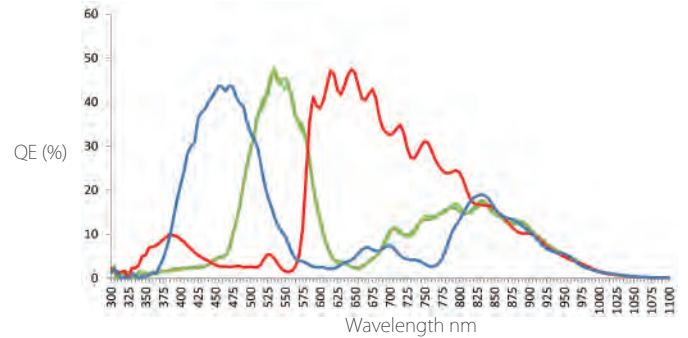
- VGA  
640(H) x 480(V) 480fps  
7.4  $\mu\text{m}$  x 7.4  $\mu\text{m}$  1/3"
- 2M  
2048(H) x 1088(V) 150fps  
5.5  $\mu\text{m}$  x 5.5  $\mu\text{m}$  2/3"
- 2.4M  
1936(H) x 1216(V) 145fps  
5.86  $\mu\text{m}$  x 5.86  $\mu\text{m}$  1/1.2"
- 4M  
2048(H) x 2048(V) 80fps  
5.5  $\mu\text{m}$  x 5.5  $\mu\text{m}$  1"

## Specifications

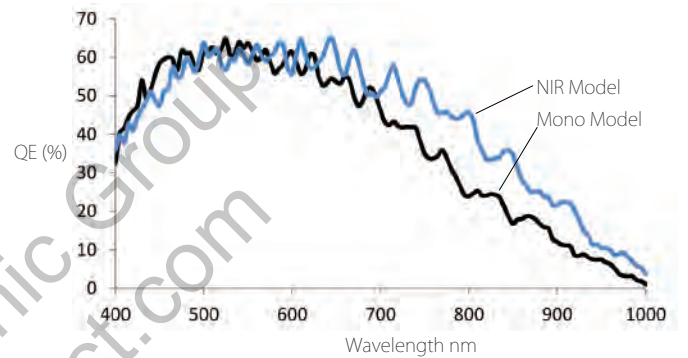
Model Number	: STC-MCCM33U3V (VGA Color) STC-MBCM33U3V (VGA Mono) STC-MCCM200U3V (2M Color) STC-MBCM200U3V (2M Mono) STC-MBCM200U3V-NIR (2M NIR) STC-MCS241U3V (2.4M Color) STC-MBS241U3V (2.4M Mono) STC-MCCM401U3V (4M Color) STC-MBCM401U3V (4M Mono) STC-MBCM401U3V (4M NIR)
Image Sensors	: 1/3" VGA CMOS (CMOSIS CMV300) 2/3" 2M CMOS (CMOSIS CMV2000) 1/1.2" 2.4M CMOS (SONY IMX174LLJ-C) 1" 4M CMOS (CMOSIS CMV4000)
Shutter Type	: Global Shutter
Effective Pixels	: 640 (H) x 480 (V) (VGA) 2048 (H) x 1088 (V) (2M) 1936 (H) x 1216 (V) (2.4M) 2048 (H) x 2048 (V) (4M)
Pixel Cell Size	: 7.4 (H) x 7.4 (V) $\mu\text{m}$ (VGA) 5.5 (H) x 5.5 (V) $\mu\text{m}$ (2M/4M) 5.86 (H) x 5.86 (V) $\mu\text{m}$ (2.4M)
Scan Method	: Progressive Scan
Scan Mode	: Full Scan / AOI
Frame Rate	: 480fps (VGA) 150fps (2M) 145ps (2.4M) 80fps (4M)
Video Format	: 8/10/12 bit Raw Data, RGB 8 bit (Color) 8/10/12 bit Raw Data (Mono, IR)
S/N Ratio	: TBD
Minimum Scene	: TBD
Illumination	
ALC	: TBD
Electronic Shutter	: TBD
AOI	: Horizontal : 32 ~ 640 / Vertical : 32 ~ 480 (VGA) Horizontal : 32 ~ 2048 / Vertical : 32 ~ 1088 (2M) Horizontal : 32 ~ 1936 / Vertical : 32 ~ 1216 (2.4M) Horizontal : 32 ~ 2048 / Vertical : 32 ~ 2048 (4M) Minimum Increment : Horizontal 4 Pixels/ Vertical 4 Pixels
Binning	: Included
Skipping	: Included
Mirror Image	: Horizontal Flip / Vertical Flip / Horizontal & Vertical Flip
White Balance	: TBD
Operating Modes	: Free-Run / Edge Preset Trigger / Trigger Pulse Width
Interface	: USB3.0 Super speed (USB3.0 Micro B)
IO(Input/Output)	: 3GPIO
Power	: TBD
Consumption	
Compliance	: RoHS Compliant

## Spectral Sensitivity

STC-MCCM200(401)U3V



STC-MBCM200(401)U3V / STC-MBCM200(401)U3V-NIR



## Dimensions

