

## 4 Specifications

### 4.1 Electronic specifications

#### 4.1.1 STC-HD213DV / STC-HD213DV-CS / STC-HD213DVN / STC-HD213DVN-CS

Model Number	STC-HD213DV / STC-HD213DV-CS	STC-HD213DVN / STC-HD213DVN-CS
Image Sensor	1/2.8" 2M Progressive Color CMOS (SONY: IMX291)	
Shutter Type	Rolling Shutter	
HD Active Picture Elements	1,920 (H) x 1,080 (V)	
Cell Size	2.9 (H) x 2.9 (V) $\mu\text{m}$	
Sync. System	Internal	
Video Output	DVI 1.0 conformity RGB 1080p60 / 1080p59.94 / 1080p50 / 1080p30 / 1080p25 / 1080i60 / 1080i59.94 / 1080i50 / 720p60 / 720p59.94 / 720p50 / <b>Auto</b>	
Minimum Scene Illumination	0.4 Lux (Maximum Gain) @ F1.4	
Camera Functions		
ALC	AEE (auto exposing) and AGC are configurable via UART communication ( <b>Default: ALC On</b> )	
Shutter Speed	AEE or fixed exposure time control is selectable via UART communication ( <b>Default: AEE</b> )	
Extended	Extend shutter frame unit (Up to 2.12 seconds)	N/A
High Speed	From 1/33,750 seconds (*1)	
Gain	AGC or Fixed gain is selectable via UART communication ( <b>Default: AGC</b> ) 0 to 45 dB	
Gamma	Gamma is selectable from manual and 8 preset (0.3 / 0.45 / 0.5 / 0.6 / 0.7 / 0.8 / 0.9 / 1) via UART communication ( <b>Default: Manual</b> )	
White Balance	Auto white balance / Manual white balance / Push to set white balance White balance is selectable via UART ( <b>Default: Auto white balance</b> )	
WDR	N/A	
Mirror Image	Horizontal flip / Vertical flip / Horizontal and vertical flip (180-degree rotation) / Normal image ( <b>Default: Normal image</b> )	
DSP user Preset	8 User preset is selectable via UART communication ( <b>Default: Preset 0</b> )	
Line Generator	Four lines (Two horizontal and two vertical lines with all available colors) ( <b>Default: Disable</b> )	
Circle Line Generator	One circle ( <b>Default: Disable</b> )	
Shadow Mask Generator	Both horizontal and vertical with shading level are adjustable via UART communication ( <b>Default: Disable</b> )	
Still Image	Live video or freeze image is selectable via UART communication ( <b>Default: Live video</b> )	N/A
Digital Zoom	Support	N/A
Communication	+3.3V UART communication via 3.5 $\Phi$ Stereo Jack (Baud rate: 115,200ps / 57,600bps / <b>38,400bps</b> / 19,200bps / 9,600bps)	
Character Generator	Built-in character generation function via UART communication	
Defective Pixel Collection	Support (Up to 256 points)	
Power	Input Voltage	+9 to +15 Vdc (Typical: +12 Vdc)
	Consumption	Less than 3.2 W
		Less than 2.1 W

Default: **Bold**