

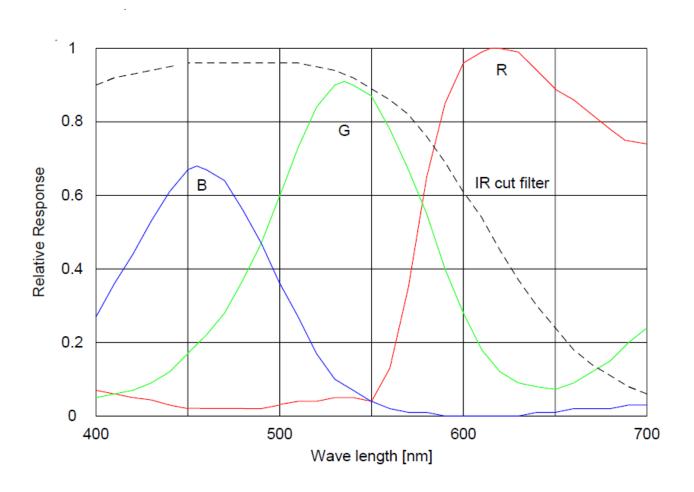
## I. Specifications

A. Electronic Specifications / Mechanical Specifications / Environmental Specifications

Product		•	OEM-HD133DV (Case Type)	OEM-HD133DV-B (Board Type)
Electronic	Imager		1/3" Interline SXGA	
Specifications	HD Active Picture Elements		1280 (H) x 720 (V)	
	Chip Size		6.26 (H) x 5.01 (V) mm	
	Cell Size		3.75 (H) x 3.75 (V) μm	
	Minimum Scene Illumination		5 Lux at F1.2 at 50% IRE,	
			AGC ON and 1/60 second shutter speed with IR cut filter	
	Resolution		600 TV Lines	
	Sync System		Internal	
	Video Output		DVI 1.0 conformity	
			RGB, 1280 (H) x 720 (V), 60 Hz / 59.94 Hz / 50 Hz	
	Camera	1	Can be configured via the	UART communication
	Functions	ALC	With optical iris, auto elec	tronic shutter and AGC
			Adjustable shutter speed via the UART communication	
		Shutter Speed Gain	Up to 1/100,000 seconds at 60 Hz or up to 1/83,947 seconds at 50Hz	
			·	
			AGC or Fixed gain, selectable via the UART communication Gain range: 0 to 18.3 dB	
		Digital Cain	Up to 5.9866 dB	
		Digital Gain	•	
		Gamma	1.0, 0.9, 0.8, 0.7, 0.6, 0.5, 0.45, 0.3 or manual gamma Gamma selectable via the UART communication	
		White Balance	Auto white balance / manual white balance / push-to-set white balance	
			White balance selectable via the UART communication	
		Mirror Image	Normal Image and Horizontal Flip are selectable via UART communication	
		DCD Days at a	28 DSP p	resets;
		DSP Presets	Selectable picture mode via the UART communication	
		Line Generator	Both horizontal and vertical with all available colors	
			Thickness adjustable via the UART communication	
		Shadow Mask Generator	Horizontal and vertical w/ shading level adjustment via the UART communication	
		Communication	+3.3V UART communicati	-
		Character Generator	Built-in character generation functi	· · · · · · · · · · · · · · · · · · ·
		Pixel Blemish Collection	Up to 64 pixel blemis	
	Power	Input Voltage	+9Vdc to +15Vdc (	
	Consumption		< 3.0	Y
Mechanical Specifications	Dimensions		40 (W) x 40 (H) x 45.8 (D) mm	35 (W) x 35 (H) x 46.7 (D) mm
	Optical Filter		Includes IR cut filter	
	Lens Mount		C mount	
		Video Output	HDMI connector	
		Power Input	12V power jack	
		·		3.5φ stereo jack with SW board,
				SM06B-SRSS (JST)
	Interface			6-pin connector header for
	Connector	External Control	3.5φ stereo jack with SW board	connectivity of up to 9 external switch;
				Functions are listed under
				"II-B: The Camera Control Functions"
	l I	Communication	2 F. atom	•
	Communication		3.5¢ stereo jack Primary SW	
	Button		,	
			Initial press button function: push-to-set white balance	
			Initial hold button function: Auto white balance	
	N/a lab		(Function is selectable via the	·
	Weight		Approximately 120 g	Approximately 50 g
Environmental Specifications	Temperature Operational Storage		0°C to 40°C	
			-30 to	65°C
	Vibration		20Hz to 200Hz to 20Hz (5min./cycle),	
			Acceleration: 10G, 30min., XYZ each direction	-
			Acceleration: 38G, half amplitude 6ms,	
			3 times, XYZ each direction	-
	Standard Compliancy			-2. FMI: 55011
	}		EMS: EN61000-6-2, EMI: 55011	
	RoHS		RoHS Compliant	

Product Specifications Ver 1.0

**Spectral Sensitivity Characteristics** 



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