

I. Specifications

A. Electronic Specifications / Mechanical Specifications / Environmental Specifications

Product		OEM-HD133DV (Case Type)	OEM-HD133DV-B (Board Type)	
Electronic Specifications	Imager	1/3" Interline SXGA CCD: ICX445AQA		
	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) μ m		
	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 Functions	ALC	Can be configured via the UART communication With optical iris, auto electronic shutter and AGC	
		Shutter Speed	Adjustable shutter speed via the UART communication Up to 1/100,000 seconds at 60 Hz or up to 1/83,947 seconds at 50Hz	
		Gain	AGC or Fixed gain, selectable via the UART communication Gain range: 0 to 18.3 dB	
		Digital Gain	Up to 5.9866 dB	
		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	
		DSP Presets	28 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 communication via 3.5 ϕ stereo jack	
		Character Generator	Built-in character generation function via the UART communication	
Pixel Blemish Collection		Up to 64 pixel blemish static collection		
Power	Input Voltage	+9Vdc to +15Vdc (Typically: 12Vdc)		
	Consumption	< 3.0 W		
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		
	Interface Connector	Video Output	HDMI connector	
		Power Input	12V power jack	
		External Control	3.5 ϕ stereo jack with SW board	3.5 ϕ stereo jack with SW board, SM06B-SRSS (JST) 6-pin connector header for connectivity of up to 9 external switch; Functions are listed under "II-B: The Camera Control Functions"
		Communication	3.5 ϕ stereo jack	
	Button	Primary SW Initial press button function: push-to-set white balance Initial hold button function: Auto white balance (Function is selectable via the UART communication)		
	Weight	Approximately 120 g	Approximately 50 g	
	Environmental Specifications	Temperature	Operational	0°C to 40°C
Storage			-30 to 65°C	
Vibration		20Hz to 200Hz to 20Hz (5min./cycle), Acceleration: 10G, 30min., XYZ each direction	-	
Shock		Acceleration: 38G, half amplitude 6ms, 3 times, XYZ each direction	-	
Standard Compliancy		EMS: EN61000-6-2, EMI: 55011		
RoHS		RoHS Compliant		

Spectral Sensitivity Characteristics

