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See3CAM_130E



Datasheet

Revision 1.1
17 Dec 2025



Contents

1	Introduction	3
2	Disclaimer	3
3	Description.....	3
3.1	Features.....	6
4	Key Specification	6
4.1	Maximum Frame Rate Supported	7
4.1.1	When Connected to USB 3.1 Gen 1.....	7
4.1.2	When Connected to USB 2.0	7
4.2	CMOS Image Sensor Specification	8
5	Pin Description	8
5.1	General Purpose Pin Description	8
5.2	USB Type-C Connector Pin Description	10
6	Connector Part Numbers	10
7	Electrical Specification.....	11
7.1	Recommended Operating Condition	11
7.1.1	UYVY with USB 3.1 Gen 1	11
7.1.2	MJPEG with USB 3.1 Gen 1.....	12
7.1.3	UYVY with USB 2.0	12
7.1.4	MJPEG with USB 2.0.....	13
7.2	DC Characteristics	13
7.2.1	Absolute Maximum for GPIO Pins	13
7.2.2	GPIO Voltage Levels (except STROBE & TRIGGER).....	14
7.2.3	GPIO Driving Strength (except STROBE & TRIGGER)	14
7.2.4	STROBE Output	14
7.2.5	TRIGGER Input.....	14
7.3	Operating Temperature Range	15
8	Mechanical Specifications	15
8.1	See3CAM_130E Dimension	15
8.2	Camera Module Dimension	15
	Revision History.....	17
	Support	18



1 Introduction

See3CAM_130E is a 13MP, color, UVC compliant, USB 3.1 Gen 1 SuperSpeed autofocus camera with Type-C connector from e-con Systems, a company with over two decades of experience in designing, developing, and manufacturing OEM cameras. It is provided with a reversible plug-and-play Type-C connector interface.

This 13MP color camera is a one-board solution containing an autofocus camera module with a 1/3.2" AR1335 CMOS image sensor from onsemi™ along with a USB 3.1 Gen 1 interface for connecting to a host PC through a Type-A to Type-C legacy cable with reversible cable detection.

This autofocus camera is backward compatible with USB 2.0 host ports and does not require special camera drivers to be installed in the host PC. See3CAM_130E supports resolutions and at lower frame rates when connected to USB 2.0 host ports.

This camera will be compatible with the native UVC drivers of Windows and Linux Operating Systems (OS). e-con Systems also provides a sample application that demonstrates some of its features. However, this camera can utilize any DirectShow application, such as Skype.

This document describes the features of the See3CAM_130E board and the pin-outs of the connectors, including a mechanical diagram.

2 Disclaimer

The specifications and features of the See3CAM_130E camera board are provided here as a reference only. e-con Systems reserves the right to edit/modify this document without any prior intimation.

3 Description

See3CAM_130E is a one-board solution of size 80mm x 15mm. This camera board is based on an AR1335 image sensor from onsemi™ along with an image signal processor (ISP) and, has a USB interface along with a USB Type-C connector (Flip detection logic only). It is preinstalled with all required firmware and is compatible with the USB Video Class (UVC) version 1.0 standard.

You can integrate this camera into products, which helps to shorten the Time to Market. This camera board is UVC compatible, and it will work with the standard drivers available with Windows and Linux OS. There is no need for additional driver installation.



The below table lists the resolution and frame rates supported by the camera.

Format	Resolution	Frame Rate		% Crop in FOV	
		USB 3.1 Gen 1	USB 2.0	Horizontal	Vertical
UYVY	VGA (640 x 480)	*120 fps and 60 fps	60 fps and 30 fps	0%	0%
	720P (1280 x 720)	60 fps and 30 fps	16 fps and 8 fps	0%	24.14%
	960P (1280 x 960)	60 fps and 30 fps	12 fps and 6 fps	0%	0%
	1080P (1920 x 1080)	60 fps and 30 fps	8 fps and 4 fps	0%	24.14%
	1440P (1920 x 1440)	45 fps and 22.5 fps	6 fps and 3 fps	0%	0%
	4K UHD (3840 x 2160)	15 fps and 7.5 fps	2 fps	0%	24.14%
	2.8K (2880 x 2160)	20 fps and 10 fps	3 fps	0%	0%
	4K Cinema (4096 x 2160)	15 fps and 7.5 fps	2 fps	0%	28.88%
	13MP (4208 x 3120)	9 fps and 4.5 fps	1 fps	0%	0%
MJPEG	VGA (640 x 480)	*120 fps	120 fps	0%	0%
	720P (1280 x 720)	60 fps	60 fps	0%	24.14
	960P (1280 x 960)	60 fps	60 fps	0%	0%
	1080P (1920 x 1080)	60 fps	60 fps	0%	24.14
	1440P (1920 x 1440)	60 fps	60 fps	0%	0%
	4K UHD (3840 x 2160)	30 fps	30 fps	0%	24.14
	2.8K (2880 x 2160)	30 fps	30 fps	0%	0%
	4K Cinema (4096 x 2160)	30 fps	30 fps	0%	28.88
	13MP (4208 x 3120)	20 fps	20 fps	0%	0%

Table 1: Resolution and Frame Rates of See3CAM_130E

Note:

- *If the set zoom value is less than 112, the Zoom value will be set to 112 after the resolution is switched to the VGA resolution. For defaults under video capture filter camera settings, the zoom value will be updated to 100 for all resolutions.
- The Field-of-View (FOV) will be different for the 16:9 resolution formats and 4:3 resolution formats.



The FOV of See3CAM_130E is shown below.

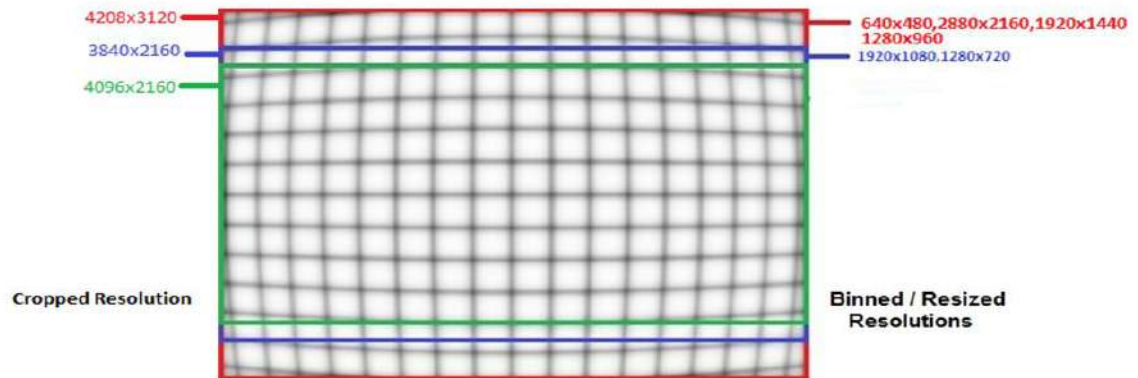


Figure 1: FOV of See3CAM_130E

This UVC-compliant See3CAM_130E camera supports Full-HD (1920 x 1080p) and HD (1280 x 720) resolutions. It does not require any device drivers to be installed on Windows 7 OS (both regular PC versions and embedded versions). The OS is provided with built-in Microsoft-supplied UVC drivers so that video streaming through UVC is possible. From Windows XP (with Service Pack2), all the Windows OS releases are provided with built-in support for UVC drivers so that the See3CAM_130E camera works seamlessly with these OSes. The camera is exposed as a DirectShow capture source to the Windows PC. e-con Systems provides the sample DirectShow application that demonstrates the features of this camera. Any DirectShow-compliant application, such as Skype, can work with this camera as a webcam.

In Linux, the built-in UVC driver works very well with this camera, and there is no need for additional driver installation. This camera is exposed as a V4L2 camera, and e-con Systems also provides a sample application for Linux OS. You can also develop customized applications for the See3CAM_130E camera using standard V4L2 APIs.

The See3CAM_130E camera board has a 10-pin GPIO header, which can be used for customization requirements. It has Trigger and still capture.

This functionality is embedded in the UVC firmware which runs on the See3CAM_130E camera UVC controller and on the sample PC application.

Together with these specific purpose signals, this See3CAM_130E can be customized for any application, and e-con Systems can provide the necessary technical and programming help.



The front view of See3CAM_130E is shown below.



Figure 2: Front View of See3CAM_130E

3.1 Features

The features of See3CAM_130E are as follows:

- One-board solution of size 80 mm x 15 mm.
- 13MP color camera sensor with autofocus feature.
- Uncompressed UYVY format and compressed MJPEG format.
- USB 3.1 Gen 1 device with Type-C reversible interface connector.
- Lightweight, versatile, and portable design.
- 10-pin GPIO header for standard and custom operations. GPIO pins are accessible from the PC host application.
- Plug-and-Play setup (UVC compliant) for Windows 10, 11 and Ubuntu 18.04 (64-bit), Ubuntu 20.04, Ubuntu 22.04.
- Supported interleaved High Dynamic Range (iHDR).
- Imaging applications.
 - True 13MP CMOS image sensor.
 - Still Capture supported resolution UYVY- VGA, HD (720p), 960P, Full-HD (1080p), 1440P, Ultra-HD (4K), 2880P, 4K_Cinema and 13MP.
 - Still Capture supported resolution MJPEG- VGA, HD (720p), 960P, Full-HD (1080p), 1440P, Ultra-HD (4K), 2880P, 4K_Cinema and 13MP.
 - Preview format UYVY-VGA, HD (720p), 960P, Full-HD (1080p), 1440P, Ultra-HD (4K), 2880P, 4K_Cinema and 13MP.
 - Preview format MJPEG-VGA, HD (720p), 960P, Full-HD (1080p), 1440P, Ultra-HD (4K), 2880P, 4K_Cinema and 13MP.
 - FOV angle is not the same for all preview resolutions.
 - Output Video format - UYVY and MJPEG format.
- Operating Voltage - 5V +/- 5%, Current - 330mA.
- Restriction of Hazardous Substances (RoHS) compliant.

4 Key Specification

The below table lists the specifications of See3CAM_130E

Description	Specification
Size (L x W x H) in mm	80 x 15 x 9.67
Video format	UYVY and MJPEG
USB	3.0 and 2.0
Image Resolution	VGA (640 x 480), HD (1280 x 720), QVGA (1280 x 960), FHD (1920 x 1080), QHD (1920 x 1440), UHD (2880 x 2160), 4K



	UHD (3840 x 2160), 4K Cinema (4096 x 2160), 13MP (4208 x 3120).
Supported OS	Windows 10, Windows 11, Ubuntu 18.04(64-bit), Ubuntu 20.04 and Ubuntu 22.04
UVC Compliant	Yes, compliant with UVC Version 1.0
Product ID (PID)	0xC0DA
Vendor ID (VID)	0x2560

Table 2: Key Specifications of See3CAM_130E

4.1 Maximum Frame Rate Supported

The frame rates are calculated under the presumption that there are no other devices connected to the same USB port. The frame rate will decrease and, depending on available bandwidth, may potentially drop to zero if there are any additional USB devices, such as removable mass storage drives connected to the same USB host controllers. The frame rate will be determined by the ambient light levels when the camera is configured for auto exposure. The frame rate will drop down accordingly when the ambient light is low.

Note: Maximum frame rates are assured only in manual exposure. When the exposure value is changed above the frame time, the frame rate will drop because the exposure time is more than the time period of the camera frame. In auto exposure, a maximum frame rate could be achieved with maximum lighting.

4.1.1 When Connected to USB 3.1 Gen 1

The below table lists the maximum frame rate supported when connected to the USB 3.1 Gen 1 host controller and on the assumption that there are no other active USB devices connected to the same USB host controller. These frame rates are achieved under the ambient brightness level of 500 Lux.

Resolution	Frame Rate	
	Uncompressed UYVY	Compressed MJPEG
VGA (640 x 480)	120 fps and 60 fps	120fps
720P (1280 x 720)	60 fps and 30 fps	60fps
960P (1280 x 960)	60 fps and 30 fps	60fps
1080P (1920 x 1080)	60 fps and 30 fps	60fps
1440P (1920 x 1440)	45 fps and 22.5 fps	60fps
4K UHD (3840 x 2160)	15 fps and 7.5 fps	30fps
2.8K (2880 x 2160)	20 fps and 10 fps	30fps
4K Cinema (4096 x 2160)	15 fps and 7.5 fps	30fps
13MP (4208 x 3120)	9 fps and 4.5 fps	20fps

Table 3: Maximum Frame Rates supported when Connected to USB 3.1 Gen 1

4.1.2 When Connected to USB 2.0

The below table lists the maximum frame rate supported when connected to the USB 2.0 host controller and on the assumption that there are no other active USB devices connected to the same USB host controller.



Resolution	Frame Rate	
	Uncompressed UYVY	Compressed MJPEG
VGA (640 x 480)	60 fps and 30 fps	120fps
720P (1280 x 720)	16 fps and 8 fps	60fps
960P (1280 x 960)	12 fps and 6 fps	60fps
1080P (1920 x 1080)	8 fps and 4 fps	60fps
1440P (1920 x 1440)	6 fps and 3 fps	60fps
4K UHD (3840 x 2160)	2 fps	30fps
2.8K (2880 x 2160)	3 fps	30fps
4K Cinema (4096 x 2160)	2 fps	30fps
13MP (4208 x 3120)	1 fps	20fps

Table 4: Maximum Frame Rates supported When Connected to USB 2.0

4.2 CMOS Image Sensor Specification

The below table lists the specifications of the CMOS image sensor used in the See3CAM_130E camera board.

Sensor Specifications	
Type / Optical Size	1/3.2" Optical format CMOS image sensor
Resolution	13MP
Sensor Type	Color-UYVY, MJPEG-CMOS Rolling Shutter sensor with Bayer RGB
Pixel Size	1.1 μm x 1.1 μm Back Side Illuminated (BSI)
Sensor Active Area	4208H x 3120V
Responsivity	4700 e ⁻ /lux-sec
Signal to Noise Ratio (SNR)	37 dB
Dynamic Range	69 dB

Table 5: CMOS Image Sensor Specification

For more information about the AR1335 sensor or for *Datasheet*, please contact onsemi™.

5 Pin Description

See3CAM_130E has two connectors: one USB Type-C connector and one GPIO header.

5.1 General Purpose Pin Description

The general-purpose pins are used for specific camera image processing. The below table lists the pin types and description of the GPIO header (CN3).



CN3 Pin no	Signal Name	Default Pin state	Description	Remarks
1	VCC_5V ¹	Power	Supply voltage for external flash/LED circuit	It can source up to 300mA in USB 3.1 Gen 1.
2	VCC_5 V ¹			NOTE: Do not connect any load when See3CAM_130 connected with USB 2.0. Any surge current drawn from this voltage source will affect the camera.
3	RSVD	-	Reserved for future	-
4	Strobe	Output	Strobe output signal from camera sensor	Strobe output from image sensor, used to drive LED driver circuit as required
5	TRIG_SENSOR ²	Input (PD)	Supports edge trigger, Active high input, Supports 1.8V IO logic level	Used to start the readout of the sensor (e.g., used for multi camera synchronization application) NOTE: Connect to a proper external trigger circuit with 1.8V IO logic to make use of this functionality
6	RSVD	-	Reserved for future	-
7	RSVD	-	Reserved for future	-
8	TRIG_STILL ³	Input	Supports edge trigger, Active high input, Supports 1.8V IO logic level	NOTE: Connect to a proper external trigger circuit with 1.8V IO logic to make use of this functionality
9	NC	-	-	-
10	GND	Power	Device power ground	-

Table 6: Pin Types and its Description

PD - Internally Pulled-down

- **VCC_5V Pin:** 5V can be derived from this pin. This pin is provided directly from the USB VBUS and there is no any internal current control circuit provided. Only when interfaced to USB 3.1 Gen 1 port, this can source maximum current of 300mA. Please do not connect any load to VCC_5V pin when connected to USB 2.0 port. Consuming beyond the maximum current will lead to drop in voltage and affect the performance of sensor.
- **TRIG_SENSOR Pin:** Refer to the *See3CAM_130E_Trigger_Mode_Rev_<ver>.pdf* for more information on trigger pin.
- **TRIG_STILL Pin:** The TRIG_STILL pin implements a hardware snapshot trigger function. This trigger function is done with a still pin that is exposed as a DirectShow filter object in Windows OS. The DirectShow application must be developed to access this still pin of the camera to capture still image.



5.2 USB Type-C Connector Pin Description

The USB Type-C connector is a standard USB Type-C connector used to connect the See3CAM_130E board to a PC through the USB Type-A to Type-C cable.

The below table lists the pin-outs of the USB Type-C connector (CN2) of See3CAM_130E.

Pin No	Signal	Description	Pin No	Signal	Description
A1	GND	Ground return	B12	GND	Ground return
A2	SSTXp1	SuperSpeed differential pair 1, TX, positive	B11	SSRXp1	SuperSpeed differential pair 2, RX, positive
A3	SSTXn1	SuperSpeed differential pair 1, TX, negative	B10	SSRXn1	SuperSpeed differential pair 2, RX, negative
A4	VBUS	Bus power	B9	VBUS	Bus power
A5	CC1	Configuration channel	B8	SBU2	-
A6	Dp1	Hi-Speed differential pair, position 1, positive	B7	Dn2	Hi-Speed differential pair, position 2, negative
A7	Dn1	Hi-Speed differential pair, position 1, negative	B6	Dp2	Hi-Speed differential pair, position 2, positive
A8	SBU1	-	B5	CC2	Configuration channel
A9	VBUS	Bus power	B4	VBUS	Bus power
A10	SSRXn2	SuperSpeed differential pair 4, RX, negative	B3	SSTXn2	SuperSpeed differential pair 3, TX, negative
A11	SSRXp2	SuperSpeed differential pair 4, RX, positive	B2	SSTXp2	SuperSpeed differential pair 3, TX, positive
A12	GND	Ground return	B1	GND	Ground return

Table 7: USB Type-C Connector Pin Types and Description

6 Connector Part Numbers

The below table lists the connectors used in the See3CAM_130E camera board and its compatible mating connectors. The USB 3.1 Gen 1 connector is the standard Type-C connector as specified in the USB Type-C standards. Any USB 3.1 Gen 1 standard-compliant USB 3.1 Gen 1 cable will be compatible with this connector.

Connector	Description	Manufacturer	Part Number
USB 3.1 Gen 1 Type-C connector	CONN RCPT USB C 3.1 SMT R/A	Molex	105450-0101
GPIO Header (CN3)	10 Position Socket Connector 0.031" (0.80mm) Surface Mount, Right Angle Tin	Hirose Electric Co Ltd	DF52-10S-0.8H (21)
Mating Connector for GPIO Header	10 Position Rectangular Housing Connector Plug Black 0.031" (0.80mm)	Hirose Electric Co Ltd	DF52-10P-0.8C
Wire crimp	Contact Crimp Non-Gendered 28-32 AWG Tin	Hirose Electric Co Ltd	DF52-2832PCF

Table 8: Connectors and its Part Number Details



7 Electrical Specification

The below sections list the electrical specifications and recommended operating conditions of See3CAM_130E.

- [Recommended Operating Condition](#)
- [DC Characteristics](#)

7.1 Recommended Operating Condition

The below table lists the recommended operating conditions of See3CAM_130E.

Parameter	Typical Operating Voltage	Current (mA)	Typical Power Consumption (W)
Idle condition	5V $\pm$ 250mV	106	0.530
Streaming Maximum Power 2880 x 2160 at 30 fps MJPEG		401	2.005
Streaming Minimum Power 640 x 480 at 120 fps MJPEG		234	1.170

Table 9: Recommended Operating Condition of See3CAM_130E

These values are measured in the e-con Systems lab and can be used as a reference only. The current measurements are typical values and are subject to change for different camera boards under different conditions. However, these values can be taken as a reference for power estimation and power supply design.

Note: The device goes into idle mode when frames are not output for 10 seconds. When the device comes out of idle mode, the time taken to send out the first frame is more than normal resolution switching.

7.1.1 UYVY with USB 3.1 Gen 1

The below table lists the current consumed by See3CAM_130E in UYVY format with USB 3.1 Gen 1 under various operating conditions.

S.No	Resolution	Frame Rate (fps)	Supply Voltage (V)	Typical Current (mA)	Power Consumption (W)
1	640 x 480	120	5	303	1.515
		60	5	291	1.455
2	1280 x 720	60	5	300	1.5
		30	5	330	1.650
3	1280 x 960	60	5	313	1.565
		30	5	341	1.705
4	1920 x 1080	60	5	320	1.600
		30	5	355	1.775
5	1920 x 1440	45	5	315	1.575
		22.5	5	349	1.745
6	4096 x 2160	15	5	323	1.615



		7.5	5	275	1.375
7	3840 x 2160	15	5	325	1.625
		7.5	5	290	1.45
8	2880 x 2160	20	5	282	1.41
		10	5	291	1.455
9	4208 x 3120	9	5	308	1.54
		4.5	5	280	1.4

Table 10: UYVY with USB 3.1 Gen 1

7.1.2 MJPEG with USB 3.1 Gen 1

The below table lists the current consumed by See3CAM_130E in MJPEG format with USB 3.1 Gen 1 under various operating conditions.

S.No	Resolution	Supply Voltage (V)	Typical Current (mA)	Power Consumption (W)
1	640 x 480 at 120 fps	5	234	1.170
2	1280 x 720 at 60 fps	5	258	1.290
3	1280 x 960 at 60 fps	5	278	1.390
4	1920 x 1080 at 60 fps	5	274	1.370
5	1920 x 1440 at 60 fps	5	307	1.535
6	4096 x 2160 at 30 fps	5	358	1.790
7	3840 x 2160 at 30 fps	5	357	1.785
8	2880 x 2160 at 30 fps	5	401	2.005
9	4208 x 3120 at 20 fps	5	357	1.785

Table 11: MJPEG with USB 3.1 Gen 1

7.1.3 UYVY with USB 2.0

The below table lists the current consumed by See3CAM_130E in UYVY format with USB 2.0 under various operating conditions.

S.No	Resolution	Frame Rate	Supply Voltage (V)	Typical Current (mA)	Power Consumption (W)
1	640 x 480	60	5	280	1.4
		30	5	300	1.5
2	1280 x 720	16	5	294	1.47
		8	5	241	1.205
3	1280 x 960	12	5	290	1.45
		6	5	260	1.3
4	1920 x 1080	8	5	282	1.41



		4	5	256	1.28
5	1920 x 1440	6	5	262	1.31
		3	5	265	1.325
6	4096 x 2160	2	5	230	1.15
7	3840 x 2160	2	5	257	1.285
8	2880 x 2160	3	5	240	1.2
9	4208 x 3120	1	5	230	1.15

Table 12: UYVY with USB 2.0

7.1.4 MJPEG with USB 2.0

The below table lists the current consumed by See3CAM_130E in MJPEG format with USB 2.0 under various operating conditions.

S.No	Resolution	Supply Voltage (V)	Typical Current (mA)	Power Consumption (W)
1	640 x 480 at 120 fps	5	260	1.3
2	1280 x 720 at 60 fps	5	280	1.4
3	1280 x 960 at 60 fps	5	272	1.36
4	1920 x 1080 at 60 fps	5	239	1.195
5	1920 x 1440 at 60 fps	5	262	1.31
6	4096 x 2160 at 30 fps	5	234	1.17
7	3840 x 2160 at 30 fps	5	260	1.3
8	2880 x 2160 at 30 fps	5	225	1.125
9	4208 x 3120 at 20 fps	5	225	1.125

Table 13: MJPEG with USB 2.0

7.2 DC Characteristics

The below sections describe the DC characteristics of the See3CAM_130E

7.2.1 Absolute Maximum for GPIO Pins

The below table lists the absolute maximum input voltage and current for GPIO pins.

Parameter	Description	Value	Units
V input ^a	DC Input voltage to any input pin	2.1	V

Table 14: DC Input voltage

Note: Exceeding the maximum value may shorten the device's life or cause permanent damage.



7.2.2 GPIO Voltage Levels (except STROBE & TRIGGER)

The table below lists the GPIO voltage levels of See3CAM_130E.

Symbol	Parameter	Min	Typical	Max	Unit
Digital Input Signals					
V _{IL}	Input voltage LOW			0.45	V
V _{IH}	Input voltage HIGH	1.4			V
Symbol	Parameter	Min	Typical	Max	Unit
Digital Output Signals					
V _{OL}	Output voltage LOW			0.17	V
V _{OH}	Output voltage HIGH	1.53			V

Table 15: Digital Input Signal and Digital Output Signal

7.2.3 GPIO Driving Strength (except STROBE & TRIGGER)

The table below lists the GPIO driving strength of See3CAM_130E.

Symbol	Parameter	Min	Typical	Max	Unit
I _o	Output current (source current)			1	mA
I _o	Output current (sink current)			2.2	mA
I _i	Input leakage current			100	uA

Table 16: GPIO Driving Strength

7.2.4 STROBE Output

The table below lists the digital output signal.

Symbol	Parameter	Min	Typical	Max	Unit
Digital Output Signals					
V _{OL}	Output voltage LOW			0.18	V
V _{OH}	Output voltage HIGH	1.62			V
I _o	Output current (source current)			100	uA

Table 17: STROBE Output Signal

7.2.5 TRIGGER Input

The table below lists the digital output signal.

Symbol	Parameter	Min	Typical	Max	Unit
Digital Output Signals					
V _{IL}	Input voltage LOW		0	0.54	V
V _{IH}	Input voltage HIGH	1.26	1.8		V
I _i	Input current (sink current)			0.45	mA

Table 18: TRIGGER Input Signal



7.3 Operating Temperature Range

The below table lists the operating temperature range of See3CAM_130E.

Parameter Description	Temperature Range
Operating temperature range	-30°C to 70°C

Table 19: Operating Temperature Range

Note: When operating beyond 50°C, the image quality is affected badly by thermal flickering noise all over the image. Continuously operating the camera at 70°C (maximum value) will cause irreparable damage to the camera module. You are advised to make necessary arrangements on the products to dissipate the heat generated in the module to maintain the operating temperature below 50°C.

8 Mechanical Specifications

See3CAM_130E size is 80 mm x 15 mm x 9.67 mm. The board drawing and dimensions are given below.

8.1 See3CAM_130E Dimension

The front portion of the See3CAM_130E board with mechanical dimensions is shown below.

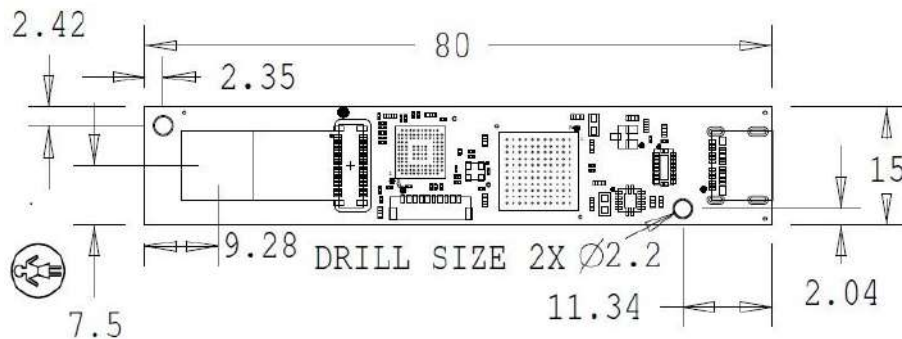


Figure 3: Front Portion of See3CAM_130E Board Mechanical Dimensions

The rear portion of the See3CAM_130E board is shown below.

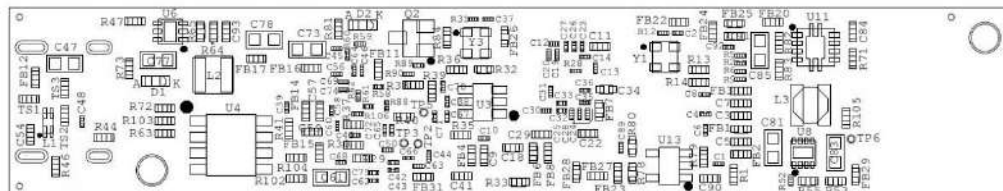


Figure 4: Rear Portion of See3CAM_130E Board

8.2 Camera Module Dimension

The camera module with mechanical dimensions is shown below.



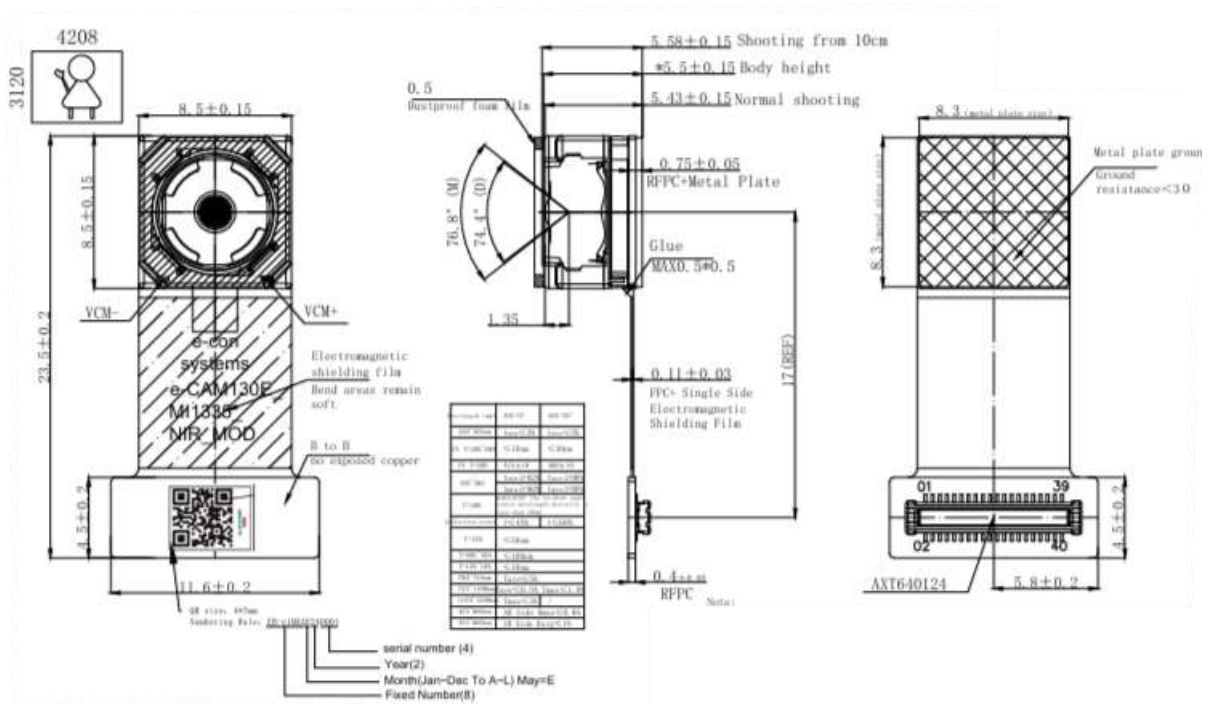


Figure 5: Camera Module Mechanical Dimensions



Revision History

Rev	Date	Description	Author
1.0	30-October-2025	Initial Draft	Camera team
1.1	17-December-2025	Updated strobe output table	Camera team



Support

Contact Us

If you need any support on See3CAM_130E product, please contact us using the Live Chat option available on our website - <https://www.e-consystems.com/>

Creating a Ticket

If you need to create a ticket for any type of issue, please visit the ticketing page on our website - <https://www.e-consystems.com/create-ticket.asp>

RMA

To know about our Return Material Authorization (RMA) policy, please visit the RMA Policy page on our website - <https://www.e-consystems.com/RMA-Policy.asp>

General Product Warranty Terms

To know about our General Product Warranty Terms, please visit the General Warranty Terms page on our website – <https://www.e-consystems.com/warranty.asp>

