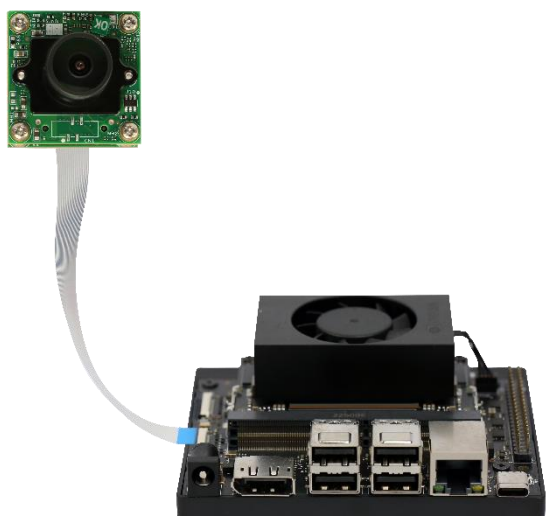


e-CAM25\_CUONX

# Release Notes



Version 1.7

e-con Systems

3/29/2025



**e-con Systems®**

Think Vision. Think e-con.

### **Disclaimer**

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# Introduction

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e-CAM25\_CUONX is a 2.3 MP MIPI CSI-2 camera from e-con Systems, a company with over two decades of experience in designing, developing, and manufacturing OEM cameras. It is a new MIPI camera board which helps to interface AR0234 sensor in either 4-lane mode or 2-lane mode depending upon the port's lane support and the user-defined configuration to the Jetson Orin™ Nano and Orin NX™. The prebuilt driver for this camera along with the camera board is provided by e-con Systems.

e-CAM25\_CUONX is 2.3 MP custom lens camera module based on 1/2.6" AR0234CS CMOS image sensor from onsemi™. It is a color camera that supports UYVY image format and provided with S-mount (also known as M12 board lens) lens holder. The S-mount is small form-factor lens mounts for board cameras. e-con Systems provides sample applications that demonstrate the features of this camera. e-CAM25\_CUONX camera is interfaced to J20 connectors of the Orin Nano™ development kit using the ACC-RB-WTB-ADP board. However, this camera can also be utilized by any Video for Linux version 2 (V4L2) application.

# Release Details

This section describes about identifying the deliverable.

- Release Version: **R04\_RC3**
- Release Date: **29-MAR-2025**
- Product: **e-CAM25\_CUONX**

Description	Jetson Orin NX/Orin Nano
Host machine version required for flashing software onto Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (64-bit) or Ubuntu 20.04 (64-bit).
Sample rootfs Ubuntu operating system to run on Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (aarch64)
JetPack Version.	JetPack 6.1.0
L4T version.	L4T_R36.4.0
Kernel version.	5.15.148-tegra
ecam_tk1_guvcview version.	1.7.2-g81ddbfb
MCU Firmware Version.	1125CUONXXXXX01110dfe152cXXXXXXX

**Change log:** Updated the MCU firmware version

- Release Version: **R04\_RC2**
- Release Date: **25-Feb-2024**
- Product: **e-CAM25\_CUONX**

Description	Jetson Orin NX/Orin Nano
Host machine version required for flashing software onto Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (64-bit) or Ubuntu 20.04 (64-bit).
Sample rootfs Ubuntu operating system to run on Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (aarch64)
JetPack Version.	JetPack 6.1.0
L4T version.	L4T_R36.4.0
Kernel version.	5.15.148-tegra
ecam_tk1_guvcview version.	1.7.2-g81ddbfb
MCU Firmware Version.	1125CUONXXXXX011100301f6eXXXXXXX

**Change log:** Application bug is fixed

- Release Version: **R04\_RC1**
- Release Date: **13-Dec-2024**
- Product: **e-CAM25\_CUONX**

Description	Jetson Orin NX/Orin Nano
Host machine version required for flashing software onto Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (64-bit) or Ubuntu 20.04 (64-bit).
Sample rootfs Ubuntu operating system to run on Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (aarch64)
JetPack Version.	JetPack 6.1.0
L4T version.	L4T_R36.4.0
Kernel version.	5.15.148-tegra
ecam_tk1_guvcview version.	1.7.2-g5d361af
MCU Firmware Version.	1125CUONXXXXX011100301f6eXXXXXXX

**Change log:** Updated to L4T36.4.0 with Jetpack 6.1.0

- Release Version: **R03\_RC2**
- Release Date: **29-JUL-2024**
- Product: **e-CAM25\_CUONX**

Description	Jetson Orin NX/Orin Nano
Host machine version required for flashing software onto Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (64-bit) or Ubuntu 20.04 (64-bit).
Sample rootfs Ubuntu operating system to run on Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (aarch64)
JetPack Version.	JetPack 6.0.0
L4T version.	L4T_R36.3.0
Kernel version.	5.15.136-tegra
ecam_tk1_guvcview version.	1.7.2-g5d361af
MCU Firmware Version.	1125CUONXXXXX0111022d8d7dXXXXXXX

**Change log:** Fix for vi-capture corruption in L4T36.3.0 in JetPack 6.0.0

- Release Version: **R03\_RC1**
- Release Date: **24-MAY-2024**
- Product: **e-CAM25\_CUONX**

Description	Jetson Orin NX/Orin Nano
Host machine version required for flashing software onto Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (64-bit) or Ubuntu 20.04 (64-bit).
Sample rootfs Ubuntu operating system to run on Jetson Orin NX/Orin Nano™.	Ubuntu 22.04 (aarch64)
JetPack Version.	JetPack 6.0.0
L4T version.	L4T_R36.3.0
Kernel version.	5.15.136-tegra
ecam_tk1_guvcview version.	1.7.2-g5d361af
MCU Firmware Version.	1125CUONXXXXX0111022d8d7dXXXXXXX

**Change log:** Updated to L4T36.3.0 with Jetpack 6.0.0

- Release Version: **R02\_RC2**
- Release Date: **06-DEC-2023**
- Product: **e-CAM25\_CUONX**

Description	Jetson Orin NX/Orin Nano
Host machine version required for flashing software onto Jetson Orin NX/Orin Nano™.	Ubuntu 20.04 (64-bit) or Ubuntu 18.04 (64-bit).
Sample rootfs Ubuntu operating system to run on Jetson Orin NX/Orin Nano™.	Ubuntu 20.04 (aarch64)
JetPack Version.	JetPack 5.1.2
L4T version.	L4T_R35.4.1
Kernel version.	5.10.120-ga43fec18c
ecam_tk1_guvcview version.	1.7.2-g5d361af
MCU Firmware Version.	1125CUONXXXXX0111022d8d7dXXXXXXX

**Change log:** Fix for device tree not updated in Jetson Orin Nano development kit.

- Release Version: **R02**
- Release Date: **10-NOV-2023**
- Product: **e-CAM25\_CUONX**

Description	Jetson Orin NX/Orin Nano
Host machine version required for flashing software onto Jetson Orin NX/Orin Nano™.	Ubuntu 20.04 (64-bit) or Ubuntu 18.04 (64-bit).
Sample rootfs Ubuntu operating system to run on Jetson Orin NX/Orin Nano™.	Ubuntu 20.04 (aarch64)
JetPack Version.	JetPack 5.1.2
L4T version.	L4T_R35.4.1
Kernel version.	5.10.120-ga43fec18c
ecam_tk1_guvcview version.	1.7.2-g5d361af
MCU Firmware Version.	1125CUONXXXXX0111022d8d7dXXXXXXX

# Download Release Package

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In this section, you can get the FTP next cloud server credentials for downloading release package

**Download Link:** <https://spaces.e-consystems.com/nextcloud/index.php/s/Ciybmwa46oR8qeR>

**Password:** e-CAM25\_CUONX



# Troubleshooting

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In this section, you can view the list of commonly occurring issues and their troubleshooting steps.

**In lower exposure value, setting a higher gain value causes a blue noise in higher resolutions.**

This is a known issue. You need to either reduce the gain or increase the exposure to recover from this issue.

**How to recover if black screen appears in ecam\_tk1\_guvview camera window?**

This is a known issue. If this issue occurs, it will auto recover in few seconds and if still not able to recover in few seconds, please restart the application.

**1. How can I get the updated package if any?**

Please login to the [Developer Resources](#) website and download the latest release package.

# What's Next?

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After understanding the Release Notes, you can refer to the following documents to understand more about e-CAM25\_CUONX.

- *e-CAM25\_CUONX Getting Started Manual*
- *e-CAM25\_CUONX Release Package Manifest*
- *e-CAM25\_CUONX Linux App User Manual*

# Support

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## **Contact Us**

If you need any support on e-CAM25\_CUONX 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>

## Revision History

Rev	Date	Description	Author
1.0	18-Apr-2023	Initial draft	Camera Dev Team
1.1	10-Nov-2023	Updated to L4T35.4.1 and support given to 2 lane	Camera Dev Team
1.2	06-Dec-2023	Install binaries script updated in Release Package	Camera Dev Team
1.3	24-May-2024	Updated to L4T36.3.0	Camera Dev Team
1.4	26-Jul-2024	Updated Release Package to fix vi-capture corruption issue	Camera Dev Team
1.5	29-Jan-2025	Updated to L4T36.4.0	Camera Dev Team
1.6	25-Feb-2025	Application bug fixed	Camera Dev Team
1.7	29-Mar-2025	Updated the MCU firmware version	Camera Dev Team