

XIMEA USB3 Vision Camera Zone



xiQ and xiC - Ultracompact USB3 Vision Cameras

Downloads

- [Driver Intel USB3 xHCI](#)
- [Driver Fresco Logic USB3 Host Controller](#)
- [Driver ASMedia USB 3.1 xHCI Controller](#)
- Driver Renesas USB3.0 Controller for PCI express:**
 - [Controller D720202](#)
 - [Controller D720200](#)

Hardware setup

- [List of compatible hardware](#)
- [High performance hardware](#)
- [Calculator of speed and bandwidth](#)
- [How to setup Multiple Cameras](#)
- [Options for MCS and Embedded vision](#)
- [How to use cameras with Laptop - tips](#)
- [How to convert camera mount from C to CS](#)
- [USB 2.0 backward compatibility](#)

Knowledge base

- [USB 3.1 updates](#)
- [HDR](#)
- [Frame rate calculator](#)
- [Sensors Exposure Times](#)
- [GPIO Inputs and Outputs](#)
- [How to achieve full frame rate](#)
- [Frame Rate Control](#)
- [Frame Burst Mode](#)
- [Multiple ROI](#)
- [Sensor Shutter Modes](#)
- [Exposure Defined by Trigger Pulse Length](#)
- [Transport Data Packing](#)
- [FAQ](#)

Documents

- [Brochures - xiQ and xiC](#)
- [Manuals - xiQ and xiC](#)
- [3D models](#)
- [Filter Glass Removal Guide](#)
- [Board Level: Handling Precautions](#)
- [Integration Guide / Dismantling Guide](#)

Software

- [API / SDK - Manual](#)
- [xiCOP](#)
- [CamTool - Viewer utility](#)
- [Vision and Image Processing Libraries support](#)
- [GenICam/GenTL or Python API, C/C++, .NET](#)
- [ARM support with Linux Ubuntu](#)
- [NVIDIA Jetson TX1, TX2, AGX XAVIER, Nano, Raspberry Pi 4](#)

Application Notes

- [Why USB 3.0](#)
- [Switching to USB3 Vision](#)
- [Buffer explained](#)
- [Synchronize multiple cameras](#)
- [Cable lengths and distance options](#)
- [Bandwidth optimization](#)
- [Embedded Vision systems solution](#)
- [Third party software and applications](#)
- [How to optimize software performance for high speed](#)
- [Flat Field correction](#)
- [Setting User ID to a Camera](#)
- [Controlling the User Interface LEDs](#)
- [Multiple exposures in one frame](#)

Troubleshooting tips

1. Always start by running [xiCOP - XIMEA Control panel](#)

This free software tool provides valuable information on possible issues with installation and/or configuration.

2. Use supported [accessories](#) and [hardware](#)

For stability and full performance capabilities, it is important to have a setup with tested components.

3. Update to the latest version the following: [driver](#), [firmware](#) and other possible software.

4. If possible, try different setups with other PC, cable, host slot or separate host controller instead of an integrated one.

5. Check driver by disabling and enabling it.

6. Verify that host card is powered properly.

7. Execute power cycle of the camera.

8. Use GPIO to power the camera if you have the appropriate cabling.

9. Attempt a soft reboot and if the problem persists a hard reboot of the PC.

10. If this fails, please [CONTACT](#) our support team.

XIMEA USB3 Vision cameras support all major Operating systems like:

Windows 7 and 10, Linux Ubuntu, macOS, ARM with USB 3.0