

CAM-200 Technical Manual

Version 1.00



2 Megapixel High-resolution camera

Introduction

This manual contains technical documentation allowing easy installation and use of the 2-Megapixel CAM-200 camera module designed for the RTCU MX2 / DX4 series. For information on the high-level programming of the CAM-200, please refer to the RTCU IDE documentation.

The CAM-200 extends the capability of the RTCU platform with the ability to take JPEG compressed snapshots. Snapshots can be taken in four different resolutions.

A whole new range of applications becomes available with CAM-200, such as:

- Remote monitoring of equipment, devices, work areas or locations.
- Any triggered event application.
- Security application.
- *“A picture is worth a thousand words...”*

Snapshots taken can either be saved to a SD-CARD, which can be accessed remotely, or it can be sent directly over the network to a server.

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Graphical view



Figure 1: Front and backside view

Installation

MX2i Pro/Pro+ and DX4 Pro Connection

The CAM-200 is connected to serial port 1 (service port) on the RTCU MX2/DX4. For this purpose a 3 meter cable is delivered, which also allows placement of the CAM-120 away from the RTCU X32 unit itself.

Power supply for the CAM-200 is controlled by the RTCU unit. This keeps the power consumption kept at a minimum, only turned on when taking snapshots.

Lens adjustment

After the CAM-120 is placed correctly, the focus needs adjustment. This is done by loosening the screw that locks the lens and turning the lens carefully left or right manually, depending on the distance to the objective to focus on.

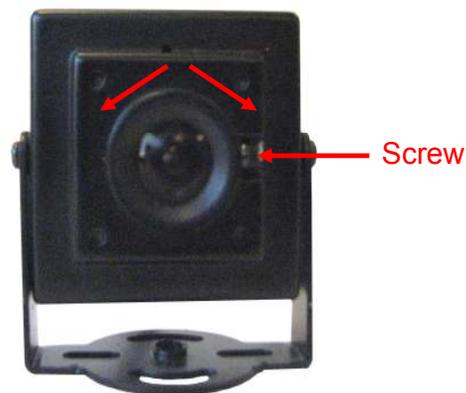


Figure 2: Lens adjustment

Technical specification

Camera type	Still Image JPEG Compression VGA Camera Module		
Image Sensor	2 Megapixel - 1/4 CMOS		
White Balance	Automatic		
Exposure	Automatic		
Auto Gain Control	Automatic		
	Minimum	Typical	Maximum
Power supply (VDC)	3.0	3.3	3.5
Field of View (degrees)	90 (diagonal)		120 (diagonal)
Working Temperature	-15 °C		+70 °C
External Dimensions (mm)	W 36 x H 36 x D 29		Without mounting bracket
Resolution		Up to: 1600x1200	