

DMM 37UX287-ML Monochrome Board Camera

The Imaging Source "37" Series USB 3.1 Board Camera



Only 30×30×15 mm

Lens & holder not included

The Imaging Source DMM 37UX287-ML monochrome camera has a USB 3.1 interface and is the perfect solution for many industrial automation, quality assurance, security, surveillance and medical applications. The monochrome camera ships with the very sensitive 1/2.9 inch Sony CMOS Pregius IMX287LLR sensor. With up to 539 images per second, the DMM 37UX287-ML is a low cost, yet highly versatile imaging solution. The optional lens holders in various lengths, makes the camera compatible to M12 board lenses. Using the optional C and CS mount lens holder, the camera is also compatible to C and CS mount lenses.

The Imaging Source authors and supports drivers, SDKs, extensions and end-user software for Microsoft Windows, which can be freely downloaded from our web site. Extensions for Microsoft Windows enable the DMM 37UX287-ML to be integrated in to common machine vision software libraries, such as LabView and OpenCV. Furthermore, we author and support open source Linux drivers and software (Apache License 2.0) to integrate the camera into popular distributions. Download the Linux source code at GitHub.

Features

- USB 3.1 interface
- 1/2.9 inch Sony CMOS Pregius sensor (IMX287LLR)
- 720×540 (0.4 MP)
- Up to 539 images per second
- Global shutter
- Trigger and I/O inputs
- Only 30×30×15 mm
- Compatible to C and CS mount lenses
- Manufactured by The Imaging Source
- Ships with Windows and Linux software

Accessories

- CS to C mount adapter (shipped as standard)
- C and CS mount lenses
- CS to M12 board lens adapters
- M12 board lenses
- Standard USB 3.1 cable in various lengths
- 3 m USB 3.1 cable with fixing screws
- I/O cable (shipped as standard)

Device Drivers for Microsoft Windows

Device driver for USB 33U, 37U and USB 38 cameras.

Software Development Kits (SDKs) for Microsoft Windows

IC Imaging Control .NET Component for C#, VB.NET, C++ Class Library for C++ projects, IC Imaging Control C Library, IC 3D SDK - C, C++ library for stereo depth estimation, IC Imaging Control ActiveX, IC Imaging Control ActiveX Runtime Setup

Extensions for Microsoft Windows

TWAIN Source for IC Imaging Control, Cognex VisionPro AIK Plugin for IC Imaging Control, LabVIEW Extension for IC Imaging Control, IC Matlab Plugin for Matlab R2010, IC Matlab Plugin for Matlab R2013b and higher versions, IC NeuroCheck Driver for NeuroCheck 6.0, IC NeuroCheck Driver for NeuroCheck 6.1

End User Software for Microsoft Windows

IC Capture - image acquisition, IC Measure - manual on-screen image measurement and image acquisition, IC 3D - User friendly stereo calibration, depth estimation and 3D visualization, IC Fullscreen Presenter, IC Line Profiler, Footswitch software for IC Capture, Scan2Docx, Scan2Docx OCR, Scan2Voice

DMM 37UX287-ML Specification

GENERAL BEHAVIOR

Dynamic range	8/12 bit
Video output format	8-Bit Monochrome, 16-Bit Monochrome

INTERFACE (OPTICAL)

IR cut filter	✗
Sensor type	CMOS Pregius
Sensor specification	IMX287LLR
Shutter	global
Format	1/2.9 inch
Resolution	720×540 (0.4 MP)
Frame rate	539 fps
Pixel size	H: 6.9 μm, V: 6.9 μm
Lens mount	C/CS

INTERFACE (ELECTRICAL)

Interface	USB 3.1
Supply voltage	4.75 VDC to 5.25 VDC
Current consumption	approx 750 mA @ 5 VDC
Auto iris control	✗
Trigger	✓
I/Os	✓

INTERFACE (MECHANICAL)

Dimensions	H: 30 mm, W: 30 mm, L: 15 mm
Mass	7 g

ADJUSTMENTS

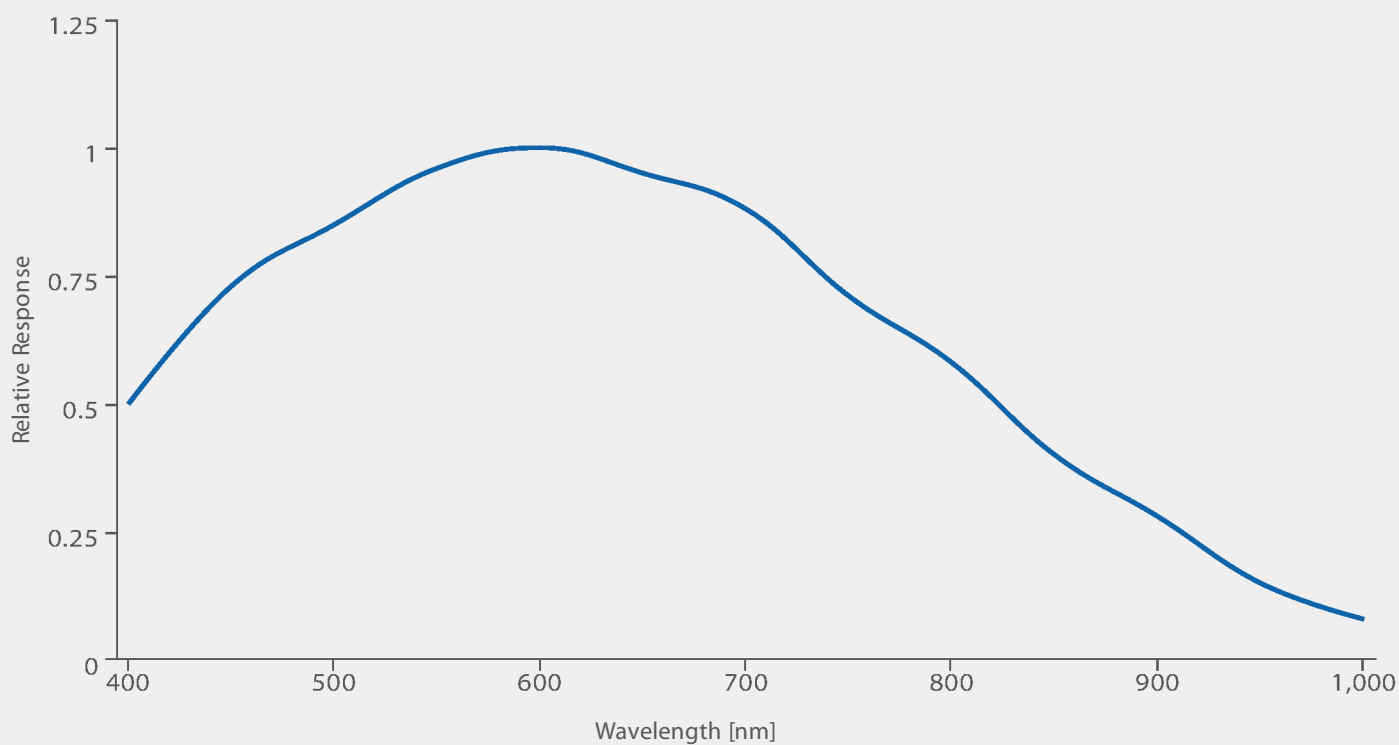
Shutter	20 μs to 60 s
Gain	0 dB to 48 dB

ENVIRONMENTAL

Temperature (operating)	-5 °C to 45 °C
Temperature (storage)	-20 °C to 60 °C
Humidity (operating)	20 % to 80 % (non-condensing)
Humidity (storage)	20 % to 95 % (non-condensing)
Subject to change	

Sony IMX287LLR Spectral Response Curve

CMOS Pregius Sensor in DMM 37UX287-ML



Machine vision, designed in Germany



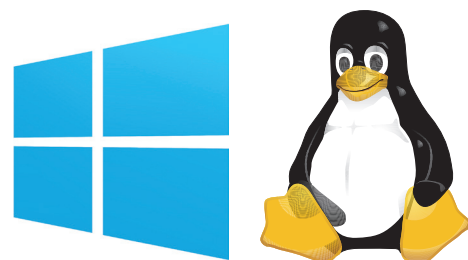
Ever since The Imaging Source was founded in 1990, it has been one of the leading manufacturers of industrial cameras, frame grabbers and video converters for automation, quality assurance, logistics, medicine, science and security.

Our extensive range of industrial cameras ships with USB 3.0, USB 2.0, GigE, FireWire 800 and FireWire 400 interfaces. Thanks to their multi-purpose features and extremely high quality standards, the cameras are commonly used in demanding applications.

The software support offered by the cameras fulfill the requirements of demanding end-users and programmers. The cameras can be put into operation within a few minutes, or integrated into new or existing applications with only a few lines of code. All camera drivers are Microsoft certified. The ease with which the cameras can be integrated, the corresponding low integration costs, and the high quality of the software set the industry standard.

All cameras, frame grabbers and video converters, manufactured by The Imaging Source, are the result of decades of experience, uncompromisingly high quality standards, and continual development. Developers and system engineers prefer The Imaging Source cameras due to their ease of system integration.

World-Class Software and Customer Care



What really separates The Imaging Source from its competitors is the comprehensive Windows and Linux software available free of charge with all its products, and the unsurpassed level of customer service.

The Imaging Source authors and supports device drivers, software development kits (SDKs), programming samples, extensions, end-user software and software tools for Microsoft Windows. All Windows software can be download directly from our web site:

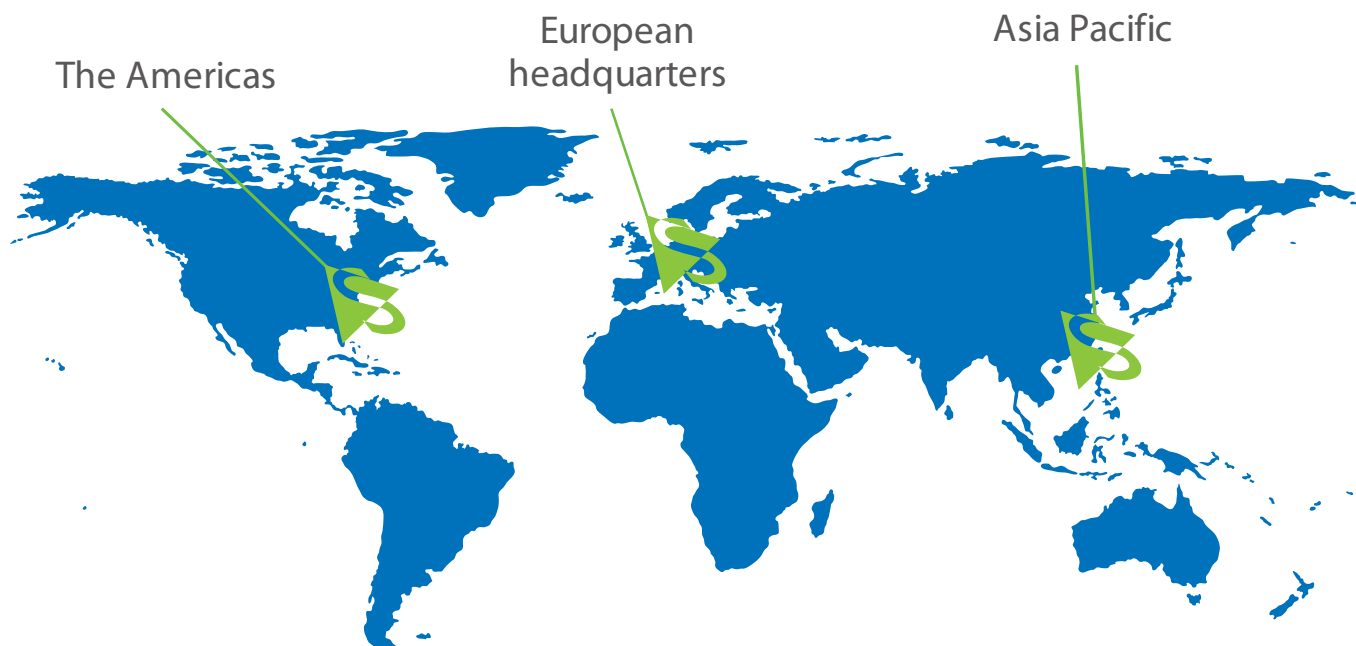
<http://www.theimagingsource.com>

Additionally, The Imaging Source authors and supports open source drivers and end-user software for Linux. The Linux source code, which is released under the Apache License 2.0, enables you to integrate all machine vision cameras into popular Linux distributions. The Open Source code is available to download from GitHub:

<https://github.com>

The Imaging Source guarantees fast and efficient customer service for all hardware and software issues via our skilled customer service representatives. Not only will we provide support regarding technical issues, but we will also work with you to implement our components into your project. Contact customer service at:

<http://www.theimagingsource.com>



PRESENT ALL OVER THE WORLD

THE IMAGING SOURCE, LLC

Suite 400
6926 Shannon Willow Rd
Charlotte, NC 28226
United States

Tel: +1 704-370-0110
Fax: +1 704-542-0936

THE IMAGING SOURCE EUROPE GMBH

Überseetor 18
28217 Bremen
Germany

Tel: +49 421 335910
Fax: +49 421 3359180

THE IMAGING SOURCE ASIA CO., LTD.

2F., No.8, Xinhua 1st Road
Taipei City 114, Neihu
District
Taiwan

Tel: +886 2 2792 3153
Fax: +886 2 2792 6583

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All weights and dimensions are approximate. Unless otherwise specified the lenses shown in the context of cameras are not shipped with these cameras.

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