THE IMAGINGSOURCE
TECHNOLOGY BASED ON STANDARDS

DMK 27BUR0135 Monochrome Camera

The Imaging Source "27" Series USB 3.0 Camera

Only 36×36×25 mm

Lens not included

The Imaging Source DMK 27BUR0135 monochrome camera has a USB 3.0 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 1/3 inch On Semiconductor CMOS AR0135 sensor. With up to 60 images per second, the DMK 27BUR0135 is a low cost, yet highly versatile imaging solution. The camera includes a C to CS mount adapter, making it compatible to C and CS mount lenses. Using the optional CS to M12 board lens adapter, the camera is also compatible to M12 board 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 DMK 27BUR0135 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 3.0 interface
- 1/3 inch On Semiconductor CMOS sensor (AR0135)
- 1,280×960 (1.2 MP)
- Up to 60 images per second
- Global shutter
- Trigger and I/O inputs
- Only 36×36×25 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 3.0 cable in various lengths
- 3 m USB 3.0 cable with fixing screws
- Trigger cable

Device Drivers for Microsoft Windows

Device Driver for USB 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 10.0 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

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DMK 27BUR0135 Specification

GENERAL BEHAVIOR	
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g nSt flt oc i l. fNflci c Sfci lS Ec i T c pc #	a,mBV+LbVfEaymj 3#fKBVVfNfbVfl-. f a,mBV+LbVfEaymj 3#fKabfNfbVfl-.

INTERFACE (OPTICAL)	
dhfrpIfl ASo	✖
XSv. t dfle- S	Rj uX
XSv. t df. - Sr l ri l t v	WhVaxP
XMpIISo	UA: s i A
1t oc i l	aG,f v r M
3 TSA: 0S	2 lfxy6Pfqc ,fglfxy6Pfqc
zSv. fc t pvl	RGRX

INTERFACE (ELECTRICAL)	
dvISdi r S	F XwfxyV
Xp- - AefOt Ai US	7y6PfgDRflt fPymPfgDR
RpooSvlfrt v. pc - l t v	i - - aTfmPVfc WfNfPfgDR
WpIt f o. frt v lct A	✖
5oUUSo	✔
dUu.	✔

INTERFACE (MECHANICAL)	
D c Sv. t v.	2 lfxbfc c ,f/ lfxbfc c ,fzlfmPfc c
j i . .	6VfU

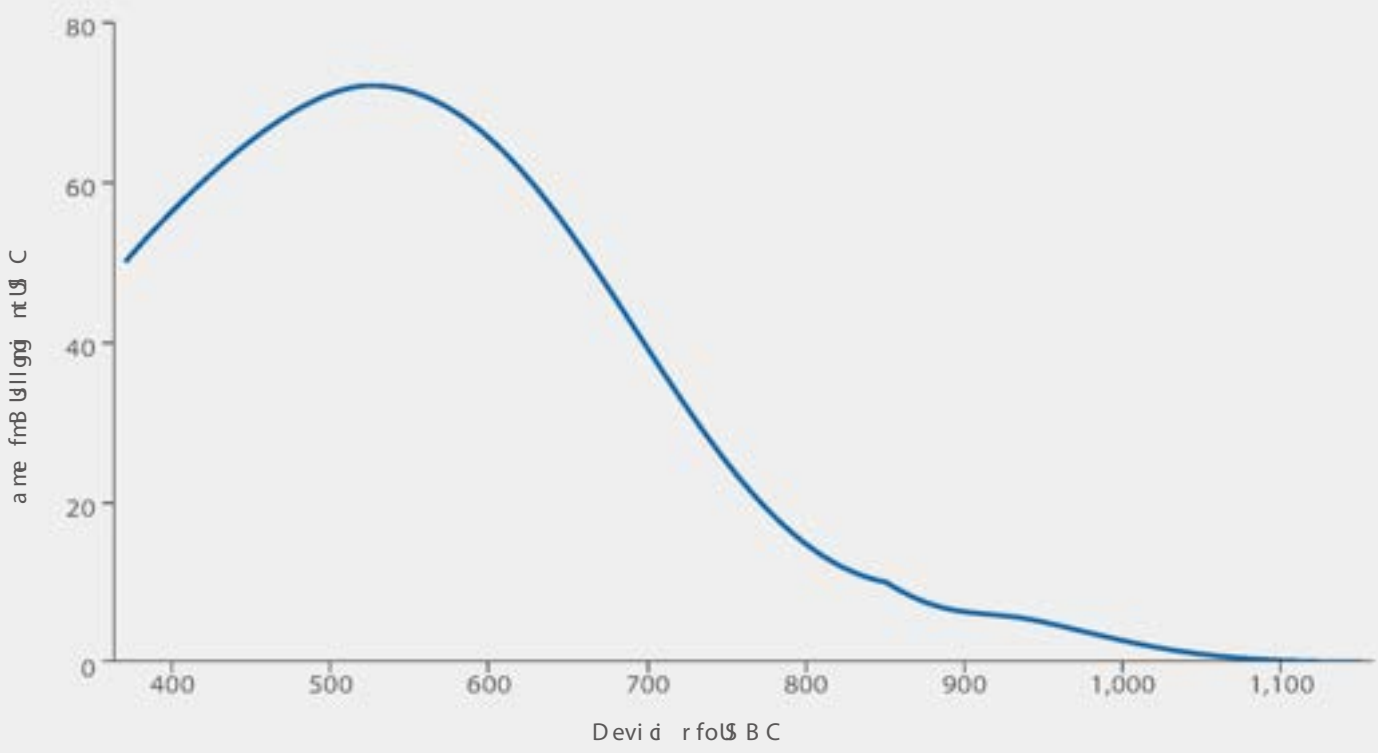
ADJUSTMENTS	
XMpIISo	aG,v,WVf. flt faf.
(i v	Vfnwflt f7Bfnw

ENVIRONMENTAL	
5Sc - Sci lpoSfEt - Sci l vU#	)PfGRflt f7PfGR
5Sc - Sci lpoSfE lt ci US#	)mVfGRflt fbVfGR
2pc n lefEt - Sci l vU#	mVfH flt fBVfH fEv t v)rt v nSv. vU#
2pc n lefE lt ci US#	mVfH flt fLPfH fEv t v)rt v nSv. vU#

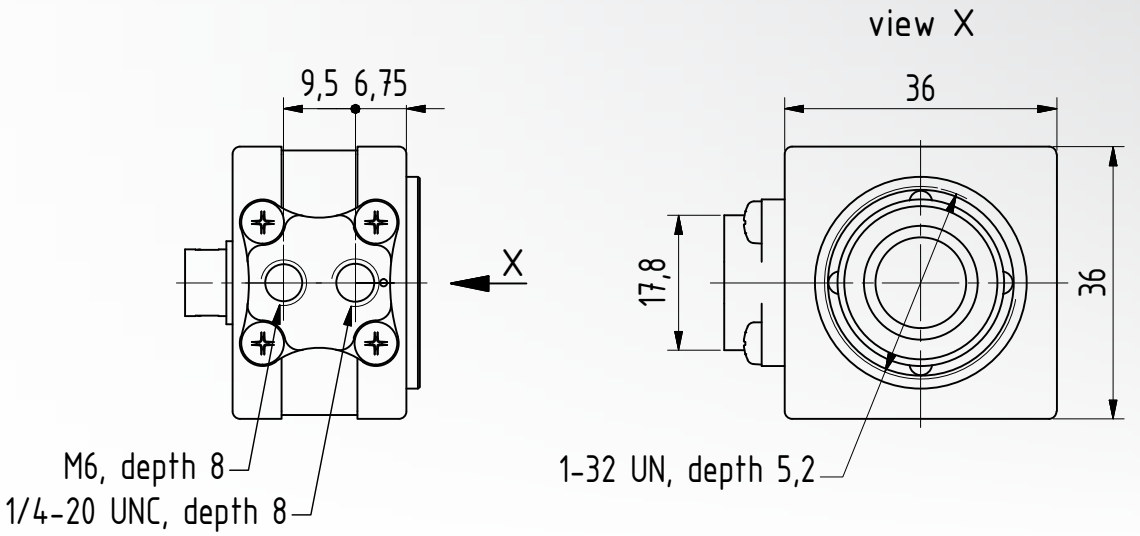
Xps 8Srlflt frM vUS

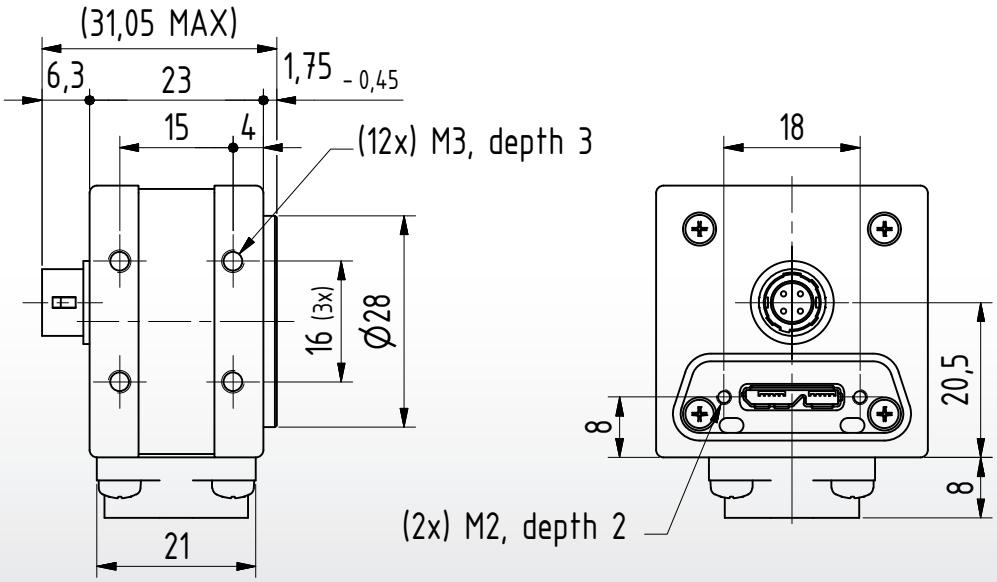
On Semiconductor AR0135 Spectral Response Curve

CMOS Sensor in DMK 27BUR0135



DMK 27BUR0135 Dimensional Diagram





Dimensions: mm
Tolerances: DIN ISO 2768-f

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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.

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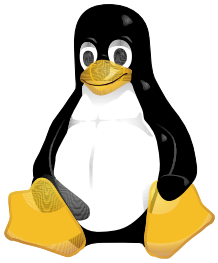
World-Class Software and Customer Care



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.

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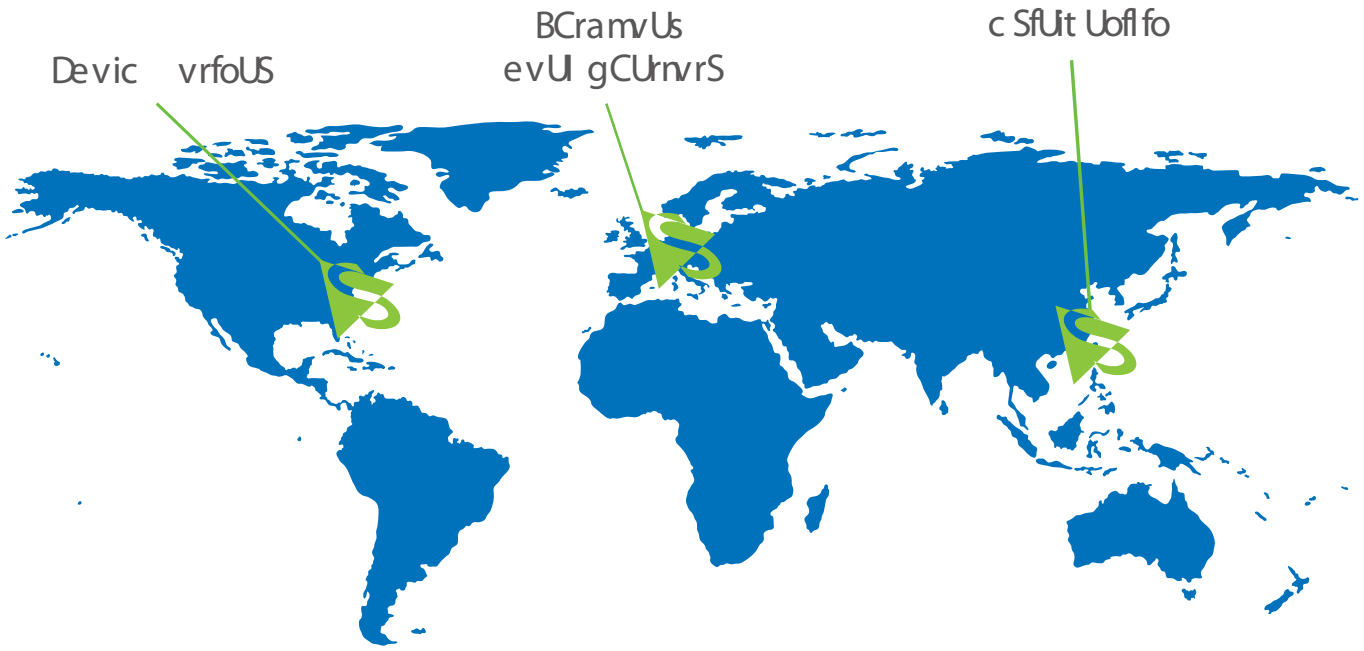

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