

# Cameras

Industrial

 **THE IMAGING SOURCE**  
TECHNOLOGY BASED ON STANDARDS





Asian Office



German Headquarters

“ The Imaging Source strives to ensure its customers’ competitive advantage by providing the most reliable vision solutions at excellent value.



US Office

# About The Imaging Source

Established in 1988, The Imaging Source is a leading manufacturer of high-performance industrial and board-level cameras for machine vision applications in production automation, quality assurance, logistics, medicine, science and security. The Imaging Source's comprehensive range of industrial cameras includes standard and OEM models as well as embedded vision solutions and zoom and autofocus cameras. Via offices in Germany, the US and Taiwan, The Imaging Source is able to deliver personalized sales and support services for its customers all over the world.

 [www.theimagingsource.com](http://www.theimagingsource.com)

# Machine Vision

## Designed in Germany...

The Imaging Source manufactures a comprehensive range of USB 3.1, USB 3.0, USB 2.0, GigE, and MIPI industrial cameras with an extensive selection of sensors and lenses. With over one million cameras sold, our industrial cameras, embedded vision products, and converters are renowned for their high quality and ability to meet the performance requirements of demanding applications.

Decades of experience in hardware development and image processing allows us to create imaging products and user-friendly tools driven by our practical approach and our customers' requirements. Developers and system engineers prefer The Imaging Source cameras because of their competitive pricing, low integration costs and long service life.

With our development and production facilities in Bremen, Germany, we continue to grow, adding production facilities in Chinese Taipei, to best serve our growing markets in the Asia-Pacific region. With our sales and support office in the United States, as well as a strong network of distributors in Europe, USA and Asia, The Imaging Source serves customers across all time zones.







## The Imaging Source Support

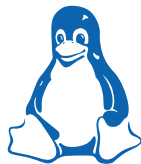
Industrial cameras consist of two basic components: hardware and software. The Imaging Source guarantees fast and efficient support for both components via our highly skilled support representatives and expert product developers. In addition to technical support for the hardware, we also provide assistance with software implementation.



## Windows

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 downloaded directly from our website:

[www.theimagingsource.com](http://www.theimagingsource.com)



## Linux x86 and Linux ARM

The Imaging Source authors and supports open-source and closed-source device drivers, software development kits (SDKs), programming samples, extensions, end-user software and software tools for Linux x86 and Linux ARM. Linux software can be found and downloaded directly from our website:

[www.theimagingsource.com/en-de/product/software/](http://www.theimagingsource.com/en-de/product/software/)



## The Imaging Source Website

Scan here to discover The Imaging Source's latest products, end-of-life announcements, updates, and camera finder.

# Machine Vision

## Manufactured in Asia

After a successful move into larger facilities in January 2022, the team at The Imaging Source Asia continues their growth trajectory with the addition of a new SMT production line, which helps address the rapidly increasing demand for industrial camera components.

The new line and dedicated SMT personnel enable The Imaging Source to supply high-quality PCBAs to its manufacturing lines, increasing efficiency and productivity, resulting in shorter lead times and better service for customers.



Industrial

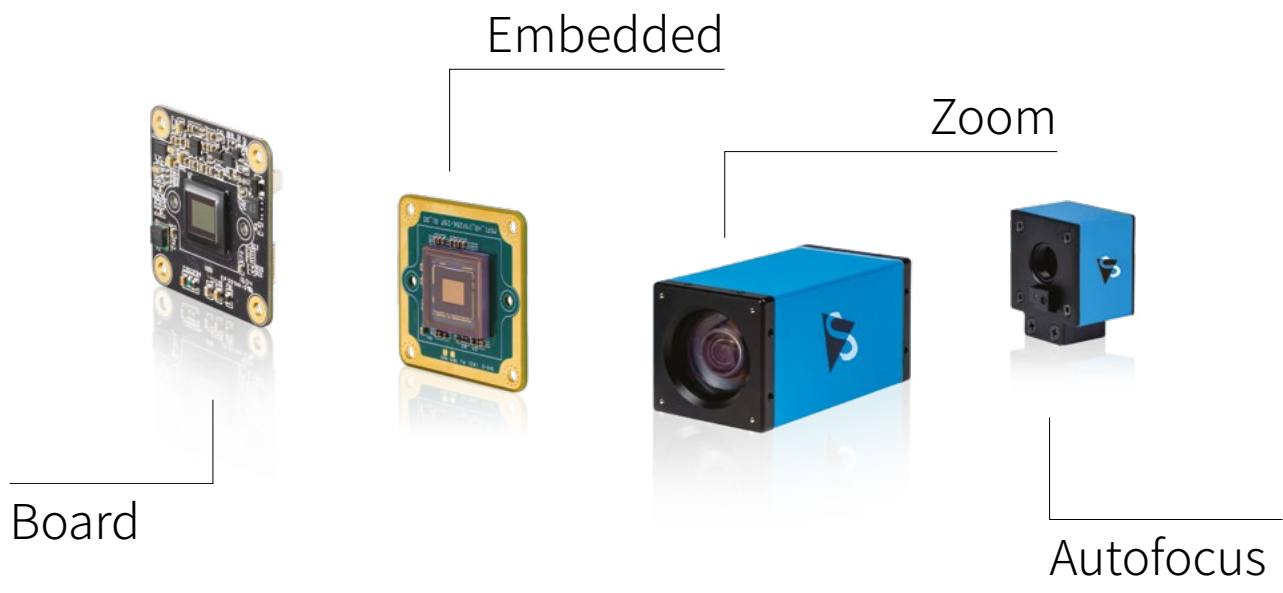


Welcome



Office





SMT Line



Assembly Line

# Embedded Vision Overview

Affordable processing power, advanced software and reduced system footprint have unlocked new possibilities for embedded vision, expanding its application potential. Discover how The Imaging Source's robust cameras and scalable carrier board solution support lean hardware design, delivering maximum flexibility and efficiency for your embedded vision projects.

## Flexible, Application-Ready Embedded Vision for Logistics, Manufacturing and IoT

### MIPI CSI-2:

High-speed data transmission with minimal latency - ideal for video streams and image sequences.

### Triggers and I/Os:

Hardware and software trigger and I/Os for demanding machine vision applications

### FPD-Link III:

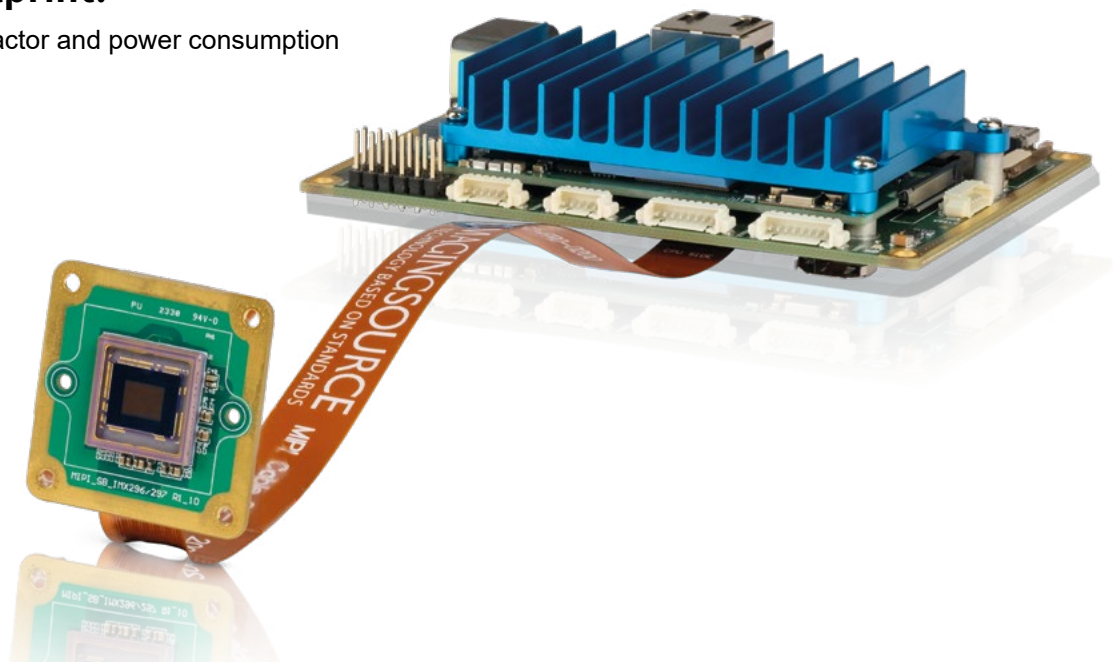
SerDes technology for high-speed data transmission up to 15 m without compromising signal integrity.

### Warranty:

3-year warranty with continuous support

### Small Footprint:

Reduced form factor and power consumption

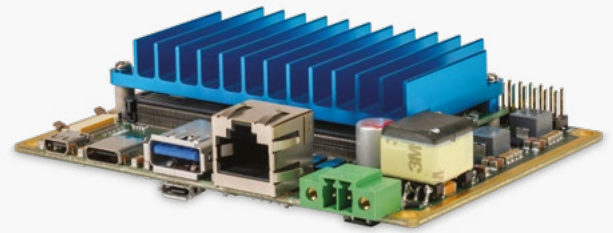
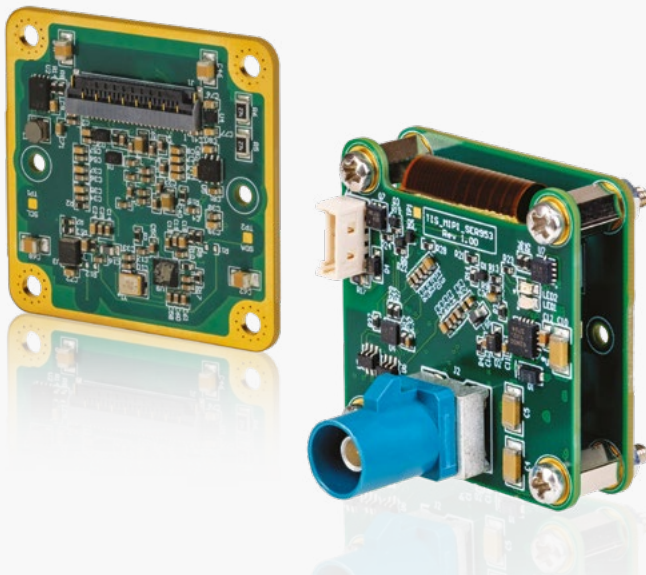




## Camera Interfaces

With 35 years in machine vision, The Imaging Source offers an extensive range of embedded cameras designed to meet the demands of diverse modern applications and industries. Offering both MIPI CSI-2 and FPD-Link III interfaces with the latest Sony and onsemi sensors, our embedded vision cameras deliver unparalleled image quality and reliability, ensuring robust imaging for your application. Whether you're in manufacturing, logistics, or healthcare, our cameras are engineered to perform in the most demanding environments, providing you with reliable and high-quality imaging solutions.

MIPI CSI-2 , FPD-Link III

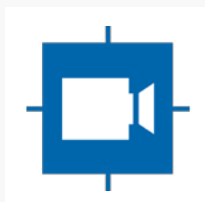
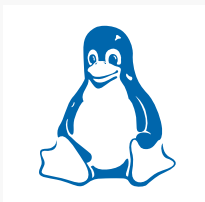


Toradex (NXP) SoM  
Scalable Design

## Carrier Board

The Imaging Source's carrier board and SoM solution for embedded vision delivers powerful image processing via a scalable board design integrated with a Toradex SoM (System on Module). Powered by NXP's ruggedized processors, the Toradex SoM brings industrial-grade connectivity, reliability, and product longevity to your embedded vision applications. This combination offers an adaptable and scalable image processing platform, ensuring lean and efficient hardware that enables OEMs to realize their first-to-market strategies.

## Driver Packages and SDKs



## Drivers and SDKs

The Imaging Source authors and supports a range of software products for image acquisition and processing. Included in our embedded vision ecosystem are camera drivers, as well as advanced image capture and processing SDKs. The system is Ready for HALCON and compatible with other third-party software and Torizon. This flexibility allows you to develop and deploy powerful vision applications with ease, ensuring your systems are equipped with the latest in image processing technology.

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Image: Fraunhofer IWU



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# 38 Series

## USB 3.1, GigE

This Family of Advanced-Feature Cameras Offers the Latest Sensor Technology for Demanding Machine Vision Applications.

38 Series cameras feature the newest Sony Pregius and Pregius S CMOS global-shutter sensors - the first Sony sensors specifically designed for machine vision applications.

All 38 Series cameras offer advanced feature sets including external trigger control, advanced readout functions (ROI, subsampling readout, multiple-frame set output) as well as image and color processing.

With resolutions of up to 24.5 MP, 38 Series cameras deliver high resolution and exceptional image quality for applications requiring a large field of view (e.g. intelligent traffic systems) as well as in high-speed machine vision applications such as production and factory automation.



RJ-45 or ix Industrial®  
Interface Optional

**USB**  
VISION

**GiGE**  
VISION

## Features

- Sony's latest Pregius and Pregius S sensors
- Advanced readout and image processing functions
- Resolutions up to 24.5 MP
- Ideal for applications production, automation, and metrology
- Easy integration via USB3 Vision and GigE Vision standards
- Free software tools and SDKs for Windows and Linux



## 38U Series USB 3.1 Cameras

Dimensions: 29 x 44 x 60 mm Mass: 110 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 38UX267	8.8	4096 x 2160	1"	3.45 µm	35 fps	IMX267	Sony Pregius	global	Color   Mono
DxK 38UX255	8.8	4096 x 2160	1"	3.45 µm	42 fps	IMX255	Sony Pregius	global	Color   Mono
DxK 38UX304	12.3	4096 x 3000	1.1"	3.45 µm	26 fps	IMX304	Sony Pregius	global	Color   Mono
DxK 38UX253	12.3	4096 x 3000	1.1"	3.45 µm	30 fps	IMX253	Sony Pregius	global	Color   Mono
DxK 38UX542	16.1	5320 x 3032	1.1"	2.74 µm	23 fps	IMX542	Sony Pregius S	global	Color   Mono
DxK 38UX541	20.3	4504 x 4504	1.1"	2.74 µm	18 fps	IMX541	Sony Pregius S	global	Color   Mono
DxK 38UX540	24.5	5320 x 4600	1.2"	2.74 µm	15 fps	IMX540	Sony Pregius S	global	Color   Mono

## 38G Series GigE Cameras

Dimensions: 29 x 44 x 73 mm Mass: 165 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 38GX267-a	8.8	4096 x 2160	1"	3.45 µm	13 fps	IMX267	Sony Pregius	global	Color   Mono
DxK 38GX304-a	12.3	4096 x 3000	1.1"	3.45 µm	9 fps	IMX304	Sony Pregius	global	Color   Mono
DxK 38GX542-a	16.1	5320 x 3032	1.1"	2.74 µm	7 fps	IMX542	Sony Pregius S	global	Color   Mono
DxK 38GX541-a	20.3	4504 x 4504	1.1"	2.74 µm	5 fps	IMX541	Sony Pregius S	global	Color   Mono
DxK 38GX540-a	24.5	5320 x 4600	1.2"	2.74 µm	4 fps	IMX540	Sony Pregius S	global	Color   Mono

<sup>1</sup> DxK: x = M (= monochrome) or F (= color)

Please note: All cameras are delivered with a tripod adapter.

# 37U Series

## USB 3.1

Cost-Optimized, Standard-Feature Cameras Provide Flexible Customization Options for Integrators and OEMs.

These streamlined, standard-feature cameras offer a reduced hardware footprint and are equipped with the latest global and rolling-shutter sensors from Sony and onsemi.

The Imaging Source's cost-optimized, single-board, 37 Series family offers several form factor variants (e.g. optional Hirose hardware trigger and I/Os), providing a flexible customization concept for integrators and OEMs.

With frame rates up to 539 fps and resolutions up to 20 MP, the robust and compact 37 Series serves as an adaptable platform for a wide range of imaging applications.



**USB**  
VISION

## Features

- Variety of Sony and onsemi CMOS sensors
- Compact, standard-feature camera for cost-sensitive applications
- Frame rates of up to 539 fps
- Optional hardware trigger and I/O
- Easy integration via USB3 Vision standard
- Ships with Windows and Linux software

## 37AU Series Cameras

Dimensions: 36 x 36 x 25 mm Mass: 70 g

\*\*Dimensions: 42 x 42 x 25 mm Mass: 76 g

Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 37AUX287	0.4	720 x 540	1/2.9"	6.9 µm	539 fps	IMX287	Sony Pregius	global	Color   Mono
DxK 37AUX273	1.6	1440 x 1080	1/2.9"	3.45 µm	238 fps	IMX273	Sony Pregius	global	Color   Mono
DFK 37AUX462	2.1	1920 x 1080	1/2.8"	2.9 µm	143 fps	IMX462	Sony STARVIS	rolling	Color   -
DxK 37AUX290	2.1	1920 x 1080	1/2.8"	2.9 µm	143 fps	IMX290	Sony STARVIS	rolling	Color   Mono
DxK 37AUR0234	2.3	1920 x 1200	1/2.6"	3.0 µm	100 fps	AR0234	onsemi	global	Color   Mono
DxK 37AUX252**	3.1	2048 x 1536	1/1.8"	3.45 µm	119 fps	IMX252	Sony Pregius	global	Color   Mono
DxK 37AUX265**	3.1	2048 x 1536	1/1.8"	3.45 µm	60 fps	IMX265	Sony Pregius	global	Color   Mono
DxK 37AUX568	5.0	2448 x 2048	1/1.8"	2.74 µm	74 fps	IMX568	Sony Pregius S	global	Color   Mono
DxK 37AUR0521	5.0	2592 x 1944	1/2.5"	2.2 µm	60 fps	AR0521	onsemi	rolling	Color   Mono
DxK 37AUX250**	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX250	Sony Pregius	global	Color   Mono
DxK 37AUX264**	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX264	Sony Pregius	global	Color   Mono
DxK 37AUX178	6.3	3072 x 2048	1/1.8"	2.4 µm	60 fps	IMX178	Sony STARVIS	rolling	Color   Mono
DxK 37AUX226	12.0	4000 x 3000	1/1.7"	1.85 µm	30 fps	IMX226	Sony STARVIS	rolling	Color   Mono
DxK 37AUR2020	20.0	5120 x 3840	1/1.8"	1.4 µm	19 fps	AR2020	onsemi	rolling	Color   Mono

## 37BU Series Cameras (with Hardware Trigger)

Dimensions: 36 x 36 x 25 mm Mass: 70 g

\*\*Dimensions: 42 x 42 x 25 mm Mass: 76 g

Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 37BUX287	0.4	720 x 540	1/2.9"	6.9 µm	539 fps	IMX287	Sony Pregius	global	Color   Mono
DxK 37BUX273	1.6	1440 x 1080	1/2.9"	3.45 µm	238 fps	IMX273	Sony Pregius	global	Color   Mono
DFK 37BUX462	2.1	1920 x 1080	1/2.8"	2.9 µm	143 fps	IMX462	Sony STARVIS	rolling	Color   -
DxK 37BUX290	2.1	1920 x 1080	1/2.8"	2.9 µm	143 fps	IMX290	Sony STARVIS	rolling	Color   Mono
DxK 37BUR0234	2.3	1920 x 1200	1/2.6"	3.0 µm	100 fps	AR0234	onsemi	global	Color   Mono
DxK 37BUX252**	3.1	2048 x 1536	1/1.8"	3.45 µm	119 fps	IMX252	Sony Pregius	global	Color   Mono
DxK 37BUX265**	3.1	2048 x 1536	1/1.8"	3.45 µm	60 fps	IMX265	Sony Pregius	global	Color   Mono
DxK 37BUX568	5.0	2448 x 2048	1/1.8"	2.74 µm	74 fps	IMX568	Sony Pregius S	global	Color   Mono
DxK 37BUR0521	5.0	2592 x 1944	1/2.5"	2.2 µm	60 fps	AR0521	onsemi	rolling	Color   Mono
DxK 37BUX250**	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX250	Sony Pregius	global	Color   Mono
DxK 37BUX264**	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX264	Sony Pregius	global	Color   Mono
DxK 37BUX178	6.3	3072 x 2048	1/1.8"	2.4 µm	60 fps	IMX178	Sony STARVIS	rolling	Color   Mono
DxK 37BUX226	12.0	4000 x 3000	1/1.7"	1.85 µm	30 fps	IMX226	Sony STARVIS	rolling	Color   Mono
DxK 37BUR2020	20.0	5120 x 3840	1/1.8"	1.4 µm	19 fps	AR2020	onsemi	rolling	Color   Mono

<sup>1</sup> DxK: x = M (= monochrome) or F (= color)

Please note: All cameras are delivered with a tripod adapter.

# 33U Series

## USB 3.0

With Our Widest Selection of CMOS Sensors, These Compact, Fully Featured Industrial Cameras Deliver Outstanding Sensitivity and Image Quality.

The Imaging Source's 33 Series portfolio offers the widest selection of global and rolling shutter CMOS sensors from Sony and onsemi.

With resolutions from 0.4 MP to 20 MP (frame rates up to 539 fps - more when using ROIs), this fully featured camera series delivers a value-driven imaging solution for nearly every machine vision application.

Also available with a GigE interface, these area-scan industrial cameras deliver high-performance imaging in a lightweight and compact form factor.



**USB**  
VISION

## Features

- Broadest portfolio of global and rolling shutter sensors
- High frame rates (up to 539 fps)
- Exceptionally sensitive, low-noise imaging
- Compact form factor: 29 x 29 x 43 mm (65 g)
- ROIs, trigger and I/Os
- Free software tools and SDKs for Windows and Linux



## 33U Series USB 3.0 Cameras

Dimensions: 29 x 29 x 43 mm Mass: 65 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 33UX287	0.4	720 x 540	1/2.9"	6.9 µm	539 fps	IMX287	Sony Pregius	global	Color   Mono
DxK 33UP1300	1.3	1280 x 1024	1/2"	4.8 µm	210 fps	P1300	onsemi	global	Color   Mono
DxK 33UX273	1.6	1440 x 1080	1/2.9"	3.45 µm	238 fps	IMX273	Sony Pregius	global	Color   Mono
DFK 33UX462	2.1	1920 x 1080	1/2.8"	2.9 µm	143 fps	IMX462	Sony STARVIS	rolling	Color   -
DxK 33UX290	2.1	1920 x 1080	1/2.8"	2.9 µm	143 fps	IMX290	Sony STARVIS	rolling	Color   Mono
DxK 33UX174	2.3	1920 x 1200	1/1.2"	5.86 µm	162 fps	IMX174	Sony Pregius	global	Color   Mono
DxK 33UX249	2.3	1920 x 1200	1/1.2"	5.86 µm	48 fps	IMX249	Sony Pregius	global	Color   Mono
DxK 33UR0234	2.3	1920 x 1200	1/2.6"	3.0 µm	100 fps	AR0234	onsemi	global	Color   Mono
DxK 33UX265	3.1	2048 x 1536	1/1.8"	3.45 µm	60 fps	IMX265	Sony Pregius	global	Color   Mono
DxK 33UX252	3.1	2048 x 1536	1/1.8"	3.45 µm	120 fps	IMX252	Sony Pregius	global	Color   Mono
DxK 33UX264	5.0	2448 x 2048	2/3"	3.45 µm	38 fps	IMX264	Sony Pregius	global	Color   Mono
DxK 33UR0521	5.0	2592 x 1944	1/2.5"	2.2 µm	60 fps	AR0521	onsemi	rolling	Color   Mono
DYK 33UX250	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX250MYR	Sony Polarsens	global	Color   -
DZK 33UX250	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX250MZR	Sony Polarsens	global	-   Mono
DxK 33UX547	5.0	2448 x 2048	1/1.8"	2.74 µm	74 fps	IMX547	Sony Pregius S	global	Color   Mono
DxK 33UX250	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX250	Sony Pregius	global	Color   Mono
DxK 33UX178	6.3	3072 x 2048	1/1.8"	2.4 µm	60 fps	IMX178	Sony STARVIS	rolling	Color   Mono
DxK 33UX546	8.1	2840 x 2840	2/3"	2.74 µm	46 fps	IMX546	Sony Pregius S	global	Color   Mono
DxK 33UX226	12.0	4000 x 3000	1/1.7"	1.85 µm	30 fps	IMX226	Sony STARVIS	rolling	Color   Mono
DxK 33UX545	12.3	4096 x 3000	1/1.1"	2.74 µm	30 fps	IMX545	Sony Pregius S	global	Color   Mono
DxK 33UX183	20.0	5472 x 3648	1"	2.4 µm	18 fps	IMX183	Sony Exmor	rolling	Color   Mono

<sup>1</sup> DxK: x = M (= monochrome) or F (= color)

Please note: All cameras are delivered with a tripod adapter.

# 33G Series

## GigE

With Our Widest Selection of CMOS Sensors, These Compact, Fully Featured Industrial Cameras Deliver Outstanding Sensitivity and Image Quality.

The Imaging Source's 33 Series portfolio offers the widest selection of global and rolling shutter CMOS sensors from Sony and onsemi.

With resolutions from 0.4 MP to 20 MP (frame rates up to 300 fps - more when using ROIs), this fully featured camera series delivers a value-driven imaging solution for nearly every machine vision application.

Also available with a USB 3.0 interface, these area-scan industrial cameras deliver high-performance imaging in a lightweight and compact form factor.



**GiGE**<sup>®</sup>  
VISION

## Features

- Broadest portfolio of global and rolling shutter sensors
- High frame rates and excellent image quality
- Compact form factor: 29 x 29 x 57 mm (65 g)
- Cable lengths of up to 100 m
- ROIs, trigger and I/Os
- Free software tools and SDKs for Windows and Linux

## 33G Series GigE Cameras

Dimensions: 29 x 29 x 57 mm Mass: 65 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 33GX287	0.4	720 x 540	1/2.9"	6.9 µm	300 fps	IMX287	Sony Pregius	global	Color   Mono
DxK 33GR0134	1.2	1280 x 960	1/3"	3.75 µm	70 fps	AR0134	onsemi	global	Color   Mono
DxK 33GP1300	1.3	1280 x 1024	1/2"	4.8 µm	90 fps	P1300	onsemi	global	Color   Mono
DxK 33GX273	1.6	1440 x 1080	1/2.9"	3.45 µm	75 fps	IMX273	Sony Pregius	global	Color   Mono
DFK 33GX462	2.1	1920 x 1080	1/2.8"	2.9 µm	56 fps	IMX462	Sony STARVIS	rolling	Color   -
DxK 33GX290	2.1	1920 x 1080	1/2.8"	2.9 µm	56 fps	IMX290	Sony STARVIS	rolling	Color   Mono
DxK 33GX174	2.3	1920 x 1200	1/1.2"	5.86 µm	50 fps	IMX174	Sony Pregius	global	Color   Mono
DxK 33GX249	2.3	1920 x 1200	1/1.2"	5.86 µm	30 fps	IMX249	Sony Pregius	global	Color   Mono
DxK 33GR0234	2.3	1920 x 1200	1/2.6"	3.0 µm	50 fps	AR0234	onsemi	global	Color   Mono
DxK 33GX265	3.1	2048 x 1536	1/1.8"	3.45 µm	36 fps	IMX265	Sony Pregius	global	Color   Mono
DxK 33GX547	5.0	2448 x 2048	1/1.8"	2.74 µm	24 fps	IMX547	Sony Pregius S	global	Color   Mono
DxK 33GX264	5.0	2448 x 2048	2/3"	3.45 µm	24 fps	IMX264	Sony Pregius	global	Color   Mono
DxK 33GR0521	5.0	2592 x 1944	1/2.5"	2.2 µm	22 fps	AR0521	onsemi	rolling	Color   Mono
DYK 33GX250	5.0	2448 x 2048	2/3"	3.45 µm	24 fps	IMX250MYR	Sony Polarsens	global	Color   -
DZK 33GX250	5.0	2448 x 2048	2/3"	3.45 µm	24 fps	IMX250MZR	Sony Polarsens	global	-   Mono
DxK 33GX178	6.3	3072 x 2048	1/1.8"	2.4 µm	19 fps	IMX178	Sony STARVIS	rolling	Color   Mono
DxK 33GX546	8.1	2840 x 2840	2/3"	2.74 µm	14 fps	IMX546	Sony Pregius S	global	Color   Mono
DxK 33GX226	12.0	4000 x 3000	1/1.7"	1.85 µm	9 fps	IMX226	Sony STARVIS	rolling	Color   Mono
DxK 33GX545	12.3	4096 x 3000	1/1.1"	2.74 µm	9 fps	IMX545	Sony Pregius S	global	Color   Mono
DxK 33GX183	20.0	5472 x 3648	1"	2.4 µm	6 fps	IMX183	Sony Exmor	rolling	Color   Mono

<sup>1</sup> DxK: x = M (= monochrome) or F (= color)

Please note: All cameras are delivered with a tripod adapter.

# 32U Series

## USB 2.0

Robust Industrial Cameras Optimized for Lean Applications

The Imaging Source's next generation of USB 2.0 industrial cameras, the 32U Series, builds on the foundation of our popular One4All cameras. The cameras' compact, industrial-grade housing is designed for demanding industrial environments. The cameras offer modern camera architecture while preserving the simplicity and affordability of the legacy One4All series and so are ideal replacements for our popular One4All USB 2.0 camera models.

Equipped with onsemi CMOS sensors, 32U Series industrial cameras are designed for cost-sensitive OEM and streamlined image processing tasks. The cameras offer advanced imaging features such as binning, ROI selection, and in-camera AE/AWB, ensuring precise control and adaptability for diverse industrial imaging applications. Specific model variants are available with opto-isolated trigger inputs, and I/O capabilities. For applications with space constraints or specific integration needs, board-level variants with standard and angled connector options are also available (please see page 22).



A Series

B Series

## Features

- Feature-enhanced replacements for popular One4All (2U) series
- Variety of onsemi CMOS sensor: 0.4 to 5 MP
- Trigger and I/O
- Modern camera architecture with USB 2.0 interface
- Free software tools and SDKs for Windows and Linux



## 32AU Series Cameras

Dimensions: 36 x 36 x 25 mm Mass: 70 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 32AUVR024	0.4	744 x 480	1/3"	6.0 µm*	89 fps	AR0234	onsemi	global	Color   Mono
DxK 32AUR0234	2.3	1920 x 1200	1/2.6"	3.0 µm	13 fps	AR0234	onsemi	global	Color   Mono
DxK 32AUR0521	5.0	2592 x 1944	1/2.5"	2.2 µm	6 fps	AR0521	onsemi	rolling	Color   Mono

\* permanently binned from raw 3.0 µm

## 32BU Series Cameras (with Hardware Trigger)

Dimensions: 36 x 36 x 25 mm Mass: 70 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 32BUVR024	0.4	744 x 480	1/3"	6.0 µm*	89 fps	AR0234	onsemi	global	Color   Mono
DxK 32BUR0234	2.3	1920 x 1200	1/2.6"	3.0 µm	13 fps	AR0234	onsemi	global	Color   Mono
DxK 32BUR0521	5.0	2592 x 1944	1/2.5"	2.2 µm	6 fps	AR0521	onsemi	rolling	Color   Mono

\* permanently binned from raw 3.0 µm

<sup>1</sup> DxK: x = M (= monochrome) or F (= color)

Please note: All cameras are delivered with a tripod adapter.

# 37U Series

## USB 3.1

These Single-Board Cameras Provide Superb Imaging and Maximum Flexibility for Space-Limited Applications.

As with the 37 Series industrial cameras, these board-level versions feature Sony's STARVIS and Pregius sensors - the first sensors developed by Sony especially for industrial applications.

These USB3-Vision and GenICam-compliant, board-level cameras deliver excellent image quality suitable for demanding machine vision tasks - making them a cost-effective solution for a range of applications such as intelligent traffic systems (ITS), optical inspection, medical engineering, logistics and more.

The cameras' small footprint (with PCB dimensions as small as 30 x 30 x 15 mm) and reversible Type-C port allow for easy integration into space-constrained designs.



Angled Connector <sup>2</sup>

**USB**<sup>®</sup>  
VISION

## Features

- Variety of Sony and onsemi CMOS sensors
- Small footprint: 30 x 30 x 15 mm
- Frame rates of up to 539 fps
- For additional connector options please contact us
- USB3 Vision and GenICam compliant
- Free software tools and SDKs for Windows and Linux

## 37U Series Board-Level Cameras

Dimensions: 30 x 30 x 15 mm Mass: 7 g

\*\*Dimensions: 36 x 36 x 15 mm Mass: 7 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxM 37UX287-ML	0.4	720 x 540	1/2.9"	6.9 µm	539 fps	IMX287	Sony Pregius	global	Color   Mono
DxM 37UX273-ML	1.6	1440 x 1080	1/2.9"	3.45 µm	238 fps	IMX273	Sony Pregius	global	Color   Mono
DFM 37UX462-ML	2.1	1920 x 1080	1/2.8"	2.9 µm	143 fps	IMX462	Sony STARVIS	rolling	Color   -
DxM 37UX290-ML	2.1	1920 x 1080	1/2.8"	2.9 µm	143 fps	IMX290	Sony STARVIS	rolling	Color   Mono
DxM 37UR0234-ML	2.3	1920 x 1200	1/2.6"	3.0 µm	100 fps	AR0234	onsemi	global	Color   Mono
DxM 37UX265-ML**	3.1	2048 x 1536	1/1.8"	3.45 µm	60 fps	IMX265	Sony Pregius	global	Color   Mono
DxM 37UX252-ML**	3.1	2048 x 1536	1/1.8"	3.45 µm	119 fps	IMX252	Sony Pregius	global	Color   Mono
DxM 37UX568-ML	5.0	2448 x 2048	1/1.8"	2.74 µm	74 fps	IMX568	Sony Pregius S	global	Color   Mono
DxM 37UX264-ML**	5.0	2448 x 2048	2/3"	3.45 µm	38 fps	IMX264	Sony Pregius	global	Color   Mono
DxM 37UR0521-ML	5.0	2592 x 1944	1/2.5"	2.2 µm	60 fps	AR0521	onsemi	rolling	Color   Mono
DxM 37UX250-ML**	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX250	Sony Pregius	global	Color   Mono
DxM 37UX178-ML	6.3	3072 x 2048	1/1.8"	2.4 µm	60 fps	IMX178	Sony STARVIS	rolling	Color   Mono
DxM 37UX226-ML	12.0	4000 x 3000	1/1.7"	1.85 µm	30 fps	IMX226	Sony STARVIS	rolling	Color   Mono
DxM 37UR2020-ML	20.0	5120 x 3840	1/1.8"	1.4 µm	19 fps	AR2020	onsemi	rolling	Color   Mono

<sup>1</sup> DxM: x = M (= monochrome) or F (= color)

<sup>2</sup> Available upon request, please contact our sales team.

# 32U Series

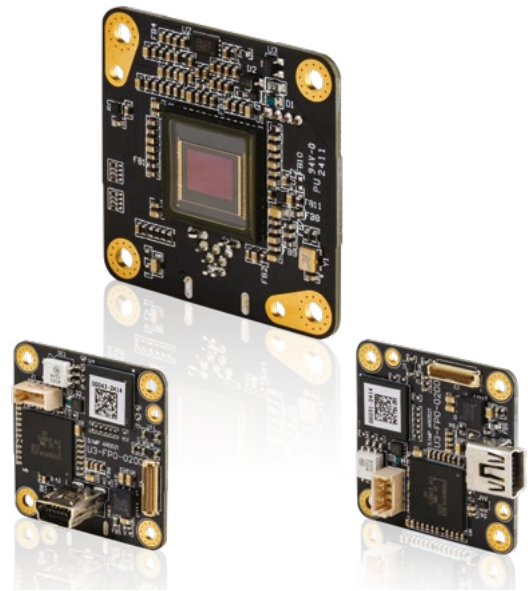
## USB 2.0

Single-Board Cameras Optimized for Lean Applications and OEM Integration

Introducing the next generation of USB 2.0 cameras: The 32U Series. These compact, single-board cameras are ideal replacements for our popular One4All USB 2.0 board camera models, offering modern camera architecture while preserving the simplicity and affordability of the legacy One4All series.

Equipped with onsemi CMOS sensors, the 32U Series is designed for cost-sensitive OEM and streamlined image processing tasks. Available with angled connectors, 32U Series board cameras provide maximum flexibility in a wide range of space-constrained applications.

Camera features such as opto-isolated trigger inputs, comprehensive I/O capabilities, and enhanced imaging functions such as binning, ROI selection, and in-camera AE/AWB ensure precise control and high flexibility, making the cameras suitable for a variety of industrial imaging applications. The camera series is also available in a housed form factor (please see page 18).



Angled Connector <sup>2</sup>

## Features

- Feature-enhanced replacements for One4All (2U) Series
- Variety of onsemi CMOS sensors: 0.4 to 5 MP
- Trigger and I/O
- Modern camera architecture with USB 2.0 interface
- Free software tools and SDKs for Windows and Linux

## 32U Series Board-Level Cameras

Dimensions: 30 x 30 x 15 mm Mass: 7 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxM 32UVR024-ML	0.4	744 x 480	1/3"	6.0 µm*	89 fps	AR0234	onsemi	global	Color   Mono
DxM 32UR0234-ML	2.3	1920 x 1200	1/2.6"	3.0 µm	13 fps	AR0234	onsemi	global	Color   Mono
DxM 32UR0521-ML	5.0	2592 x 1944	1/2.5"	2.2 µm	6 fps	AR0521	onsemi	rolling	Color   Mono

\* permanently binned from raw 3.0 µm

## 32U Series Board-Level Cameras (Angled Connector)

Dimensions: 30 x 30 x 15 mm Mass: 7 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxM 32UVR024-MLA	0.4	744 x 480	1/3"	6.0 µm*	89 fps	AR0234	onsemi	global	Color   Mono
DxM 32UR0234-MLA	2.3	1920 x 1200	1/2.6"	3.0 µm	13 fps	AR0234	onsemi	global	Color   Mono
DxM 32UR0521-MLA	5.0	2592 x 1944	1/2.5"	2.2 µm	6 fps	AR0521	onsemi	rolling	Color   Mono

\* permanently binned from raw 3.0 µm

<sup>1</sup> DxM: x = M (= monochrome) or F (= color)

<sup>2</sup> Available upon request, please contact our sales team.



# 47G Series

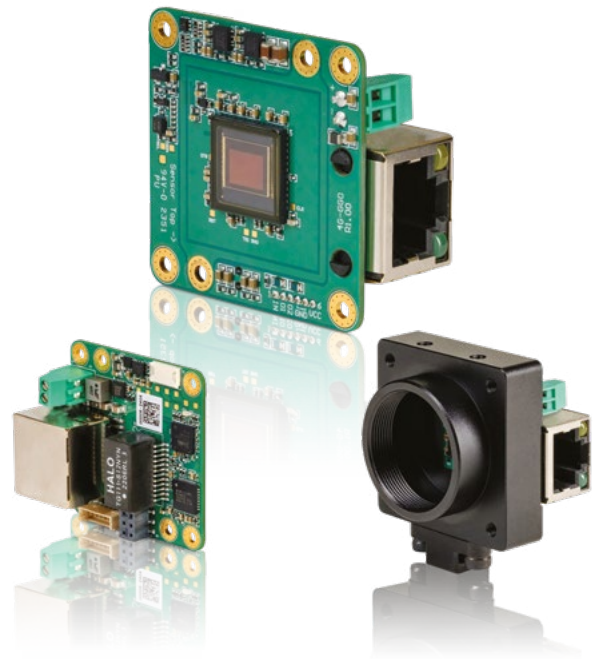
## GigE Board Cameras

Ultra-Compact, GigE Board-Level Cameras for Cost-Sensitive and OEM Applications

The Imaging Source's new GigE board-level cameras feature a single-board design with an angled RJ45 connector, delivering an especially compact form factor, measuring just 36 x 36 x 18 mm. These GigE Vision cameras are easily integrated into a wide variety of industrial automation, quality assurance and surveillance applications.

With robust data transmission and support for cable lengths up to 100 meters, the GigE board-level cameras ensure stable connectivity and flexible positioning in diverse environments. Equipped with the latest onsemi and Sony\* CMOS sensors, these cameras also feature performance enhancements such as in-camera image preprocessing, trigger and GPIO.

\*Sony sensor models: Series production planned for Q2 2025



**GigE**  
VISION

## Features

- Cost-optimized imaging solution
- Variety of Sony and onsemi CMOS sensors available
- Trigger and I/O
- Compact form factor: Single-board design with angled RJ45 connector
- Free software tools and SDKs for Windows and Linux

## 47G Series for Mini-Lens Holder

Dimensions: 36 x 36 x 18 mm Mass: 12 g w/o PoE, 20 g w/ PoE



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	PoE	Color   Mono
DxM 47GX900-ML*	3.1	2048 x 1536	1/3.1"	2.25 µm	35 fps	IMX900	Sony Pregius S	global	-	Color   Mono
DxM 47GX900-MLP*	3.1	2048 x 1536	1/3.1"	2.25 µm	35 fps	IMX900	Sony Pregius S	global	X	Color   Mono
DxM 47GR0521-ML	5.0	2592 x 1944	1/2.5"	2.2 µm	22 fps	AR0521	onsemi	rolling	-	Color   Mono
DxM 47GR0521-MLP	5.0	2592 x 1944	1/2.5"	2.2 µm	22 fps	AR0521	onsemi	rolling	X	Color   Mono

\* samples available; mass production expected in Q2 2025

## 47G Series with C-Mount Front Plate

Dimensions: 39 x 39 x 33 mm Mass: 38 g w/o PoE, 46 g w/ PoE



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	PoE	Color   Mono
DxM 47GX900*	3.1	2048 x 1536	1/3.1"	2.25 µm	35 fps	IMX900	Sony Pregius S	global	-	Color   Mono
DxM 47GX900-P*	3.1	2048 x 1536	1/3.1"	2.25 µm	35 fps	IMX900	Sony Pregius S	global	X	Color   Mono
DxM 47GR0521	5.0	2592 x 1944	1/2.5"	2.2 µm	22 fps	AR0521	onsemi	rolling	-	Color   Mono
DxM 47GR0521-P	5.0	2592 x 1944	1/2.5"	2.2 µm	22 fps	AR0521	onsemi	rolling	X	Color   Mono

\* samples available; mass production expected in Q2 2025

<sup>1</sup> DxM: x = M (= monochrome) or F (= color)

# 36S Series

## MIPI® CSI-2 Single-Board Modules

Direct Camera-to-Processor Connection  
for Exceptionally Efficient and Compact  
Embedded Vision Solutions

This compact camera module for embedded vision offers a reliable and efficient sensor-to-ISP connection supporting up to four image data lanes with a total throughput of up to 10 Gb/sec and is compatible with NVIDIA Jetson Orin, NXP and Raspberry Pi 5.

The Imaging Source offers a broad portfolio of rolling and global shutter sensors from Sony and onsemi for the MIPI CSI-2 standard with resolutions from 0.4 MP - 20 MP. Advanced features, triggering and form-factor options provide maximum flexibility for embedded vision projects.

Contact us to discuss your imaging requirements and explore the possibilities of embedded vision in your imaging application.



22-Pin Single-Board Camera Module

## Features

- Resolutions: 0.4 - 20 MP; frame rates up to 120 fps
- Sony and onsemi sensors: Global and rolling shutter
- Low latency: Direct sensor-to-processor connection
- 22-pin interface: Compatible with most processor boards
- Low power consumption
- Long-term availability

## 36S Series MIPI CSI-2: Single-Board Modules

Dimensions: 30 x 30 x 6 mm Mass: 4 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxM 36SX297-ML	0.4	720 x 540	1/2.9"	6.9 µm	120 fps	IMX297	Sony Pregius	global	Color   Mono
DxM 36SX296-ML	1.6	1440 x 1080	1/2.9"	3.45 µm	60 fps	IMX296	Sony Pregius	global	Color   Mono
DxM 36SX462-ML	2.1	1920 x 1080	1/2.8"	2.9 µm	120 fps	IMX462	Sony STARVIS	rolling	Color   Mono
DxM 36SX290-ML	2.1	1920 x 1080	1/2.8"	2.9 µm	120 fps	IMX290	Sony STARVIS	rolling	Color   Mono
DxM 36SR0234-ML*	2.3	1920 x 1200	1/2.6"	3.0 µm	120 fps	AR0234CS	onsemi	global	Color   Mono
DxM 36SX900-ML*	3.2	2048 x 1536	1/3.1"	2.25 µm	113 fps	IMX900	Sony Pregius S	global	Color   Mono
DxM 36SR0521-ML*	5.0	2592 x 1944	1/2.5"	2.2 µm	60 fps	AR0521	onsemi	rolling	Color   Mono
DxM 36SX568-ML*	5.0	2448 x 2048	1/1.8"	2.74 µm	60 fps	IMX568	Sony Pregius S	global	Color   Mono
DxM 36SX415-ML	8.3	3840 x 2160	1/2.8"	1.45 µm	50 fps	IMX415	Sony STARVIS	rolling	Color   Mono
DxM 36SR2020-ML	20.0	5120 x 3840	1/1.8"	1.4 µm	30 fps	AR2020	onsemi	rolling	Color   Mono

\* Coming soon

<sup>1</sup> DxM: x = M (= monochrome) or F (= color)

# 36A Series

## MIPI® CSI-2 Modules

MIPI CSI-2 Camera Modules with 15-Pin FPC Connector and Extended GPIO Functionality

The Imaging Source's legacy 15-pin board camera modules are compatible with older NVIDIA® Jetson™ or Raspberry Pi platforms and offer developers the advantage of seamlessly integrating with off-the-shelf carrier boards and hardware for their embedded vision projects. These camera modules provide a direct sensor-to-ISP connection, supporting one and two-lane imaging applications with a total throughput of up to 5 Gb/sec.

With many rolling and global shutter sensors, The Imaging Source offers developers a number of hardware features (e.g. resolutions, frame rates, as well as trigger and form-factor options) to cover a variety of image processing challenges and applications.

Our sales engineers are ready to help you select the right sensor and lens combination for your application.



15-Pin Interface

## Features

- Resolution up to 8.3 MP; frame rates up to 120 fps
- Sony and onsemi sensors: Global and rolling shutter
- Low latency: Direct sensor-to-processor connection
- Connects directly to NVIDIA Jetson Nano, NVIDIA Jetson Xavier NX, and Raspberry Pi
- Complete driver packages for NVIDIA JetPack and tiscamera Linux SDK



## 36A Series MIPI CSI-2: 15-Pin Board Modules

Dimensions: 30 x 30 x 16.2 mm Mass: 12 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxM 36AX297-ML	0.4	720 x 540	1/2.9"	6.9 µm	120 fps	IMX297	Sony Pregius	global	Color   Mono
DxM 36AX296-ML	1.6	1140 x 1080	1/2.9"	3.45 µm	60 fps	IMX296	Sony Pregius	global	Color   Mono
DFM 36AX462-ML	2.1	1920 x 1080	1/2.8"	2.9 µm	60 fps	IMX462	Sony STARVIS	rolling	Color   -
DxM 36AX290-ML	2.1	1920 x 1080	1/2.8"	2.9 µm	60 fps	IMX290	Sony STARVIS	rolling	Color   Mono
DxM 36AR0234-ML	2.3	1920 x 1200	1/2.6"	3.0 µm	60 fps	AR0234CS	onsemi	global	Color   Mono
DFM 36AX390-ML	2.3	1920 x 1200	1/2.6"	3.0 µm	25 fps	IMX390	Sony	rolling	Color   -
DxM 36AX335-ML	5.0	2592 x 1944	1/2.8"	2.0 µm	30 fps	IMX335	Sony STARVIS	rolling	Color   Mono
DxM 36AX415-ML	8.3	3840 x 2160	1/2.8"	1.45 µm	50 fps	IMX415	Sony STARVIS	rolling	Color   Mono

<sup>1</sup> DxM: x = M (= monochrome) or F (= color)

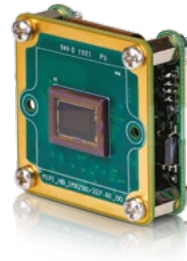
# 36C Series

## FPD-Link® III

FPD-Link III Cameras Offer the Full Functionality of MIPI® CSI-2 Cameras and Allow for Cable Lengths of Up to 15 m.

For embedded vision applications requiring cable lengths between sensor and computer platform of up to 15m, The Imaging Source offers FPD-Link III cameras (SerDes cameras) in several form factors. Image data, commands for triggers and I/Os as well as power supply are transmitted via a thin coaxial cable. The Imaging Source also offers adapter boards, serializers and deserializers to connect cameras to the desired target platform.

FPD-Link III cameras are suitable for both single and multi-camera applications in automotive, IoT and general machine-vision applications. The Imaging Source's FPD-Link III cameras feature the latest CMOS image sensors from onsemi and Sony (global and rolling shutter) and are compatible with a wide range of M12 lenses (C/CS mount lenses are also available).



Board Module



IP67 Camera



C/CS Mount Camera <sup>2</sup>

## Features

- High bandwidth and long-distance transmission: SerDes technology enables high-speed data transmission over long distances of up to 15 m.
- Low power consumption: SerDes cameras are engineered to operate with low power consumption -ideal for systems with strict power constraints.
- Multi-camera systems: SerDes technology offers scalability, allowing for easy integration of multiple cameras.
- Form factor: Bare-board or IP67 housing cameras.
- Free SDKs and end-user software: Complete driver packages for NVIDIA JetPack and tiscamera Linux SDK

## 36C Series FPD-Link III Board Modules

Dimensions: 30 x 30 x 27.5 mm Mass: 12 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxM 36CX297-ML	0.4	720 x 540	1/2.9"	6.9 µm	120 fps	IMX297	Sony Pregius	global	Color   Mono
DxM 36CX296-ML	1.6	1140 x 1080	1/2.9"	3.45 µm	60 fps	IMX296	Sony Pregius	global	Color   Mono
DFM 36CX462-ML	2.1	1920 x 1080	1/2.8"	2.9 µm	60 fps	IMX462	Sony STARVIS	rolling	Color   -
DxM 36CX290-ML	2.1	1920 x 1080	1/2.8"	2.9 µm	60 fps	IMX290	Sony STARVIS	rolling	Color   Mono
DxM 36CR0234-ML	2.3	1920 x 1200	1/2.6"	3.0 µm	100 fps	AR0234CS	onsemi	global	Color   Mono
DFM 36CX390-ML	2.3	1920 x 1200	1/2.6"	3.0 µm	50 fps	IMX390	Sony	rolling	Color   -
DxM 36CX335-ML	5.0	2592 x 1944	1/2.8"	2.0 µm	30 fps	IMX335	Sony STARVIS	rolling	Color   Mono
DxM 36CX415-ML	8.3	3840 x 2160	1/2.8"	1.45 µm	30 fps	IMX415	Sony STARVIS	rolling	Color   Mono

## 36C Series FPD-Link III IP67 Cameras

Dimensions: 36 x 36 x 60.3 mm Mass: 80 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 36CX297-I67	0.4	720 x 540	1/2.9"	6.9 µm	120 fps	IMX297	Sony Pregius	global	Color   Mono
DxK 36CX296-I67	1.6	1140 x 1080	1/2.9"	3.45 µm	60 fps	IMX296	Sony Pregius	global	Color   Mono
DFK 36CX462-I67	2.1	1920 x 1080	1/2.8"	2.9 µm	60 fps	IMX462	Sony STARVIS	rolling	Color   -
DxK 36CX290-I67	2.1	1920 x 1080	1/2.8"	2.9 µm	60 fps	IMX290	Sony STARVIS	rolling	Color   Mono
DxK 36CR0234-I67	2.3	1920 x 1200	1/2.6"	3.0 µm	100 fps	AR0234CS	onsemi	global	Color   Mono
DFK 36CX390-I67	2.3	1920 x 1200	1/2.6"	3.0 µm	50 fps	IMX390	Sony	rolling	Color   -
DxK 36CX335-I67	5.0	2592 x 1944	1/2.8"	2.0 µm	30 fps	IMX335	Sony STARVIS	rolling	Color   Mono
DxK 36CX415-I67	8.3	3840 x 2160	1/2.8"	1.45 µm	30 fps	IMX415	Sony STARVIS	rolling	Color   Mono

<sup>1</sup> DxM / DxK: x = M (= monochrome) or F (= color)

<sup>2</sup> Available upon request, please contact our sales team.

# Z Series

## GigE Zoom Cameras

Maintain Perfect Resolution Even When Imaging Objects of Varying Sizes and Distances With Z Series Zoom Cameras.

The Imaging Source's Z Series optical zoom cameras provide a flexible solution ideal for dynamic imaging needs.

Featuring an integrated motorized lens for software-controlled adjustment of focal length (zoom), aperture and focus, the cameras capture consistently sharp images even when object size fluctuates or multiple images at varying magnifications are needed.

The optical zoom cameras are available with a selection of global and rolling shutter sensors, providing a robust imaging solution for machine vision applications in industrial automation, quality assurance, in-line inspection, traffic (ITS), and surveillance.



Z Series Z20

Z Series Z12



## Features

- Integrated motorized zoom, focus, and iris
- Cable lengths up to 100 m
- ROIs, trigger and I/Os
- Free software tools and SDKs for Windows and Linux
- Average time for doubling/halving focal length:  
39G-Z20: 800ms; 39G-Z12: 600ms  
Focus adjustment times may vary based on focus distance and zoom setting.

## Z Series Z12 Cameras

Dimensions: 50 x 50 x 103 mm Mass: 330 g

Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK Z12G445	1.2	1280 x 960	1/3"	3.75 µm	30 fps	ICX445	Sony	global	Color   Mono
DxK Z12GX236	2.3	1920 x 1200	1/2.8"	2.8 µm	41 fps	IMX236	Sony Exmor	rolling	Color   Mono
DxK 39GR0522-Z12	5.0	2592 x 1944	1/2.5"	2.2 µm	22 fps	AR0522	onsemi	rolling	Color   Mono

## Z Series Z20 Cameras

Dimensions: 71 x 71 x 147 mm Mass: 691 g

Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK 39GX265-Z20	3.1	2048 x 1536	1/1.8"	3.45 µm	36 fps	IMX265	Sony Pregius	global	Color   Mono
DxK 39GX548-Z20	5.0	2448 x 2048	1/1.8"	2.74 µm	24 fps	IMX548	Sony Pregius S	global	Color   Mono

## Zoom Camera With Filter Adapter



With Filter Adapter



With Red Filter



With Close-Up Lens



With Polarizing Filter

### Close-Up Lenses

- At working distances of less than 2 meters, close-up lenses are recommended for certain zoom levels to ensure focus.
- Contact us to discuss filters, filter holders, and close-up lens options for your specific application.

<sup>1</sup> DxK: x = M (= monochrome) or F (= color)

Please note: All cameras are delivered with a tripod adapter.



# AFU Series

## Autofocus: USB

One-Push Autofocus Produces Sharp Images Despite Fluctuations in Working Distance.

In some vision system scenarios, maintaining exact working distances are virtually impossible, causing objects to move out of focus. For these applications, The Imaging Source offers a selection of USB 3.0 autofocus cameras.

Via software-driven one-push autofocus, the cameras produce sharp images despite fluctuations in working distance. Additional image control functions such as gain and exposure time can be adjusted automatically or manually via the included imaging software.

Highly-sensitive Sony CMOS sensors deliver excellent image quality - even in poor lighting conditions. The cameras' compact dimensions ensure easy integration into new or existing applications.



USB 3.0

Integrated Lens

## Features

- Sony CMOS sensors
- Windowing and high-speed readout
- M12 lens compatibility
- Free software for camera control
- Free software tools and SDKs for Windows and Linux

## AFU Series USB 3.0 Cameras

Dimensions: 36 x 36 x 30 mm Mass: 70 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DxK AFUX236-M12	2.3	1920 x 1200	1/2.8"	2.8 µm	54 fps	IMX236	Sony	rolling	Color   Mono
DxK AFUX178-M12	6.3	3072 x 2048	1/1.8"	2.4 µm	22 fps	IMX178	Sony	rolling	Color   Mono

## AFU Series Cameras (with Integrated Lens)

Dimensions: 36 x 36 x 26 mm Mass: 70 g

\*\*Dimensions: 36 x 36 x 18 mm Mass: 65 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DFK AFU050-L34**	5.0	2592 x 1944	1/4"	1.4 µm	60 fps	3.4 mm	USB 2.0	rolling	Color   -
DFK AFU420-L62	41.4	7716 x 5360	2/3"	1.12 µm	110 fps	6.2 mm	USB 3.0	rolling	Color   -

<sup>1</sup> DxK: x = M (= monochrome) or F (= color)

Please note: All cameras are delivered with a tripod adapter.

# OEM Cameras

## Tailored Industrial Cameras for Customer-Specific Applications

Leverage The Imaging Source's 35 years of expertise in machine vision to develop a camera solution that precisely meets your specific application requirements. The Imaging Source offers two distinct customization options:

**OEM Cameras:** Select a camera from our standard product portfolio and make minor modifications, such as branding, housing color, or connector configurations, to better align with your project needs.

**Custom Cameras:** For more specialized applications, we offer fully custom solutions. These involve significant design changes, including alterations to the camera board, optical system, or other core components.

The Imaging Source's OEM and customized camera solutions are guaranteed to meet the same high manufacturing standards as our ready-made cameras.



## Features

- Mechanical, hardware, and software modifications
- Board-level or housed cameras
- Custom housing
- Free SDK for camera integration and image processing

## Lens and Housing Options for Your Application



Board Without Lens



With M12 Mount



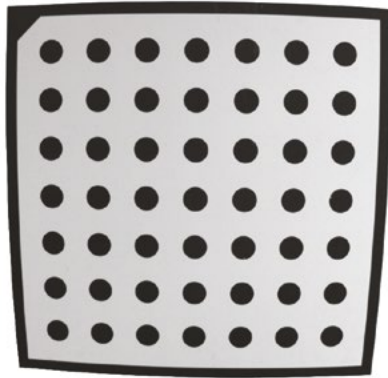
With C/CS Mount



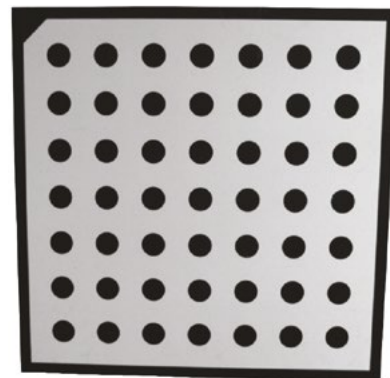
Housed With C/CS Mount

## Service: Calibration of Camera Intrinsic Parameters

The Imaging Source offers lens installation, focus adjustment, and camera intrinsic parameter calibration to correct lens distortion, which is common in wide-angle optical systems. These calibrated parameters can be stored on the camera or provided separately, enhancing accuracy in applications like multi-camera stitching, AI, measurement tasks, and robotics.



Unprocessed image: DFK 33GX265  
with a 3.5mm lens



After calibration: Same image after  
processing with intrinsic parameters.

## DBK Variant and C-Mount to M12 Adapter (Example)



Color Camera Without IR-Cut-Filter



C-Mount to M12 Adapter

# Polarsens and More Cameras

In a Class by Themselves, These Cameras Offer Unique Imaging Solutions to Suit Special Hardware or Imaging Requirements.

Not all visual inspection tasks can be performed with conventional imagers. For such cases, The Imaging Source offers specialized cameras as part of our standard product portfolio.

- USB and GigE cameras with Sony's Polarsens™ sensors to detect stress, reduce glare, and improve image contrast.
- 42 MP imaging for high-resolution quality inspection
- The MKU Ocular Camera is ideal for a wide variety of microscope applications. Product scope includes IC Measure, a user-friendly software that enables archiving, measurement, calibration, and comprehensive camera control.



## 32U Series USB 2.0



USB 2 board-level cameras with Molex PicoBlade connectors for space-limited applications.



## 33G Series GigE Cameras With On-Sensor Polarization

Dimensions: 29 x 29 x 57 mm Mass: 65 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DYK 33GX250	5.0	2448 x 2048	2/3"	3.45 µm	24 fps	IMX250MYR	Sony Polarsens	global	Color   -
DZK 33GX250	5.0	2448 x 2048	2/3"	3.45 µm	24 fps	IMX250MZR	Sony Polarsens	global	-   Mono

## 33U Series USB 3.0 Cameras With On-Sensor Polarization

Dimensions: 29 x 29 x 43 mm Mass: 65 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DYK 33UX250	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX250MYR	Sony Polarsens	global	Color   -
DZK 33UX250	5.0	2448 x 2048	2/3"	3.45 µm	75 fps	IMX250MZR	Sony Polarsens	global	-   Mono

## 42 Megapixel Camera

Dimensions: 36 x 36 x 26 mm Mass: 70 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DFK AFU420-CCS	41.4	7716 x 5360	2/3"	1.12 µm	7 fps	N/A	N/A	rolling	Color   -

## MKU Ocular Camera\*

Dimensions: 29 x 29 x 43 mm Mass: 65 g



Product Code <sup>1</sup>	MP	Resolution	Format	Pixel Size	Frame Rate	Sensor	Type	Shutter	Color   Mono
DFK MKU226-10x22	12.0	4000 x 3000	1/2.7"	1.85 µm	30 fps	IMX226CQJ	Sony STARVIS	rolling	Color   -

\* Ocular included in product scope.

<sup>1</sup> DxK: x = M (= monochrome) or F (= color)

# Lenses

## C/CS Mount

### High-Performance Internal-Focus Lenses With Variable Aperture

The Imaging Source's housed industrial cameras ship with either C- or CS-mounts, and we offer an extensive selection of suitable lenses—from high-end C-mount lenses to inexpensive CS-mount lenses.

Cost-optimized vision solutions can be realized with cameras using a small sensor and CS-mount lenses. These affordable lenses have a shorter flange focal distance, allowing for a smaller footprint. At the same time, CS-mount lenses' adjustable aperture increases overall system flexibility.

For vision applications requiring high-performance imaging, we recommend C-mount lenses. These industrial camera lenses typically consist of more optical elements which optimally resolve the newer, larger sensors with improved correction of common lens aberrations.



## Features

- Type: C/CS mount
- Available focal lengths: 4 - 75 mm
- M-12 lenses are also available (see following pages)
- Additional accessories: Filters, extension tubes and rings

## TIS 5 MP and TIS Compact Lenses



TIS 5 MP



TIS Compact

## TIS Macro 1.1" and High-End Lenses



TIS Macro 1.1"



High-End

# Board Lenses

## M12 (S Mount)

Robust, Fixed-Focus Lenses With External Focus Adjustment

Compact and lightweight M12 lenses are typically used in conjunction with board cameras. The M12 lenses' fixed aperture makes them more resistant to mechanical stresses such as vibrations or shocks.

Due to their smaller optical components and simpler focusing system, M12 lenses are also less expensive than C/CS-mount lenses. When used with CS-mount cameras, M12 lenses can also provide super wide-angle FOVs.

The board camera and M12 lens combination delivers one of the lightest and most compact industrial imaging solutions possible.



## Features

- Type: M12 mount
- Available focal lengths: 1.4 - 50 mm
- C/CS mount lenses are also available (see pages 44-45)
- Over 50 lenses available

## TIS Megapixel and TIS 2/3" Board Lenses



TIS Megapixel



TIS 2/3"

## TIS Low Distortion and TIS Standard Board Lenses



TIS Low Distortion



TIS Standard

# Lens Accessories

## Extension Tubes, Spacer Rings, and Filters

Accessories to Improve Vision System Performance

The primary task of any vision system's hardware is the production of high-contrast images, allowing for relevant image data extraction and reduced processing time. Optical filters for machine vision applications deliver significant improvements to image contrast. Bandpass filters, for example, greatly improve contrast in monochrome images while polarization filters reduce glare and surface reflections.

We are happy to help you with the selection of optical filters suitable for your machine vision application.



Tubes and Rings



Filters

## Features

- Many filter types available
- Improved image contrast
- Glare reduction
- Low-cost solution to improve vision system performance



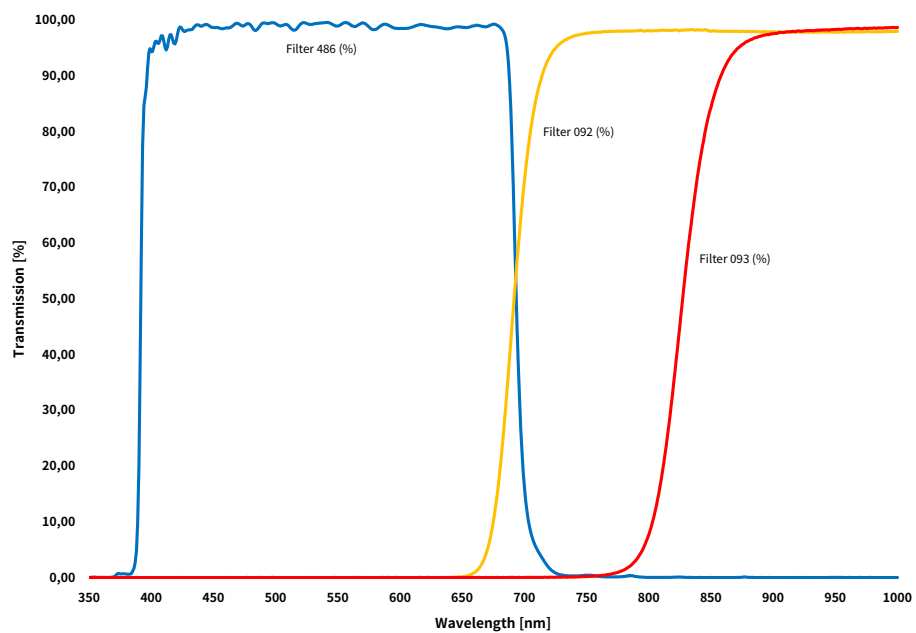
## Extension Tubes and Spacer Rings



## Filters



## Transmission



# Embedded Vision Reference Design

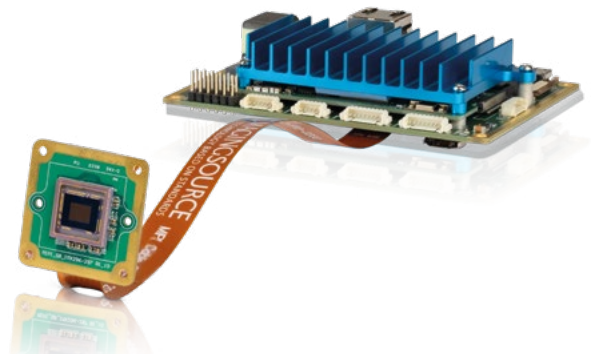
## NXP® i.MX8 SoM with Carrier Board and Cameras

Designed for versatility, The Imaging Source's embedded vision platform for NXP supports single and dual-camera applications via our modular board concept and Toradex Verdin NXP i.MX 8M Plus SoM.

The integration of our MIPI® CSI-2, FPD-Link® III<sup>(1)</sup> and upcoming GMSL2<sup>(1,2)</sup> camera portfolio with robust industrial-grade computing enables precise application development, ensuring efficient turnaround of application-specific design changes that saves development time and related costs.

(1) FPD-Link III or GMSL2 cameras require an additional deserializer adapter board, which is available upon request.

(2) Upcoming cameras



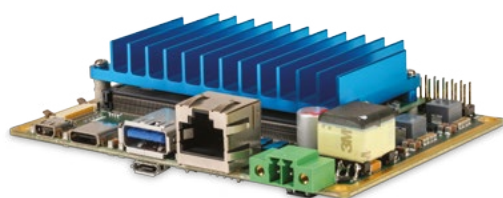
Reference Design:  
Carrier Board With Toradex Verdin NXP i.MX  
8M Plus SoM and MIPI CSI-2 36S Camera

## Advantages and Features

- Single-Source Solution: Complete reference design for prototyping and mass production
- Camera resolutions: 0.4 MP - 20 MP
- Interfaces: MIPI CSI-2, FPD-Link III<sup>(1)</sup>, GMSL2<sup>(1,2)</sup>
- Sensors: Latest Sony and onsemi CMOS sensors
- Technological partnership: Benefit from The Imaging Source's and Toradex's know-how and experience
- Multi-camera support for up to 2 cameras per system
- Optimized costs with lean hardware design
- Optimized performance with custom configurations
- Scalability via SoM-based design
- Changes to board design with short cycle times
- Efficient first-to-market strategy
- Tailor-made camera drivers and software
- Seamless integration with software frameworks like Gstreamer, Open CV, libcamera and others
- MVTec HALCON support for best-in-class image processing

## NXP i.MX 8M Plus Reference Design | Camera Interfaces

MIPI CSI-2  
36S



Carrier Board With Toradex Verdin SoM

FPD-Link III and GMSL2  
36C • 36C IP67

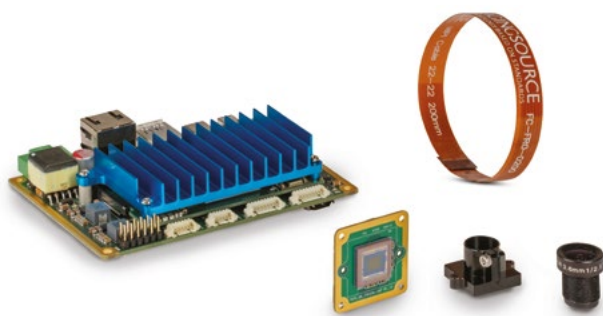


FPD-Link III Deserializer

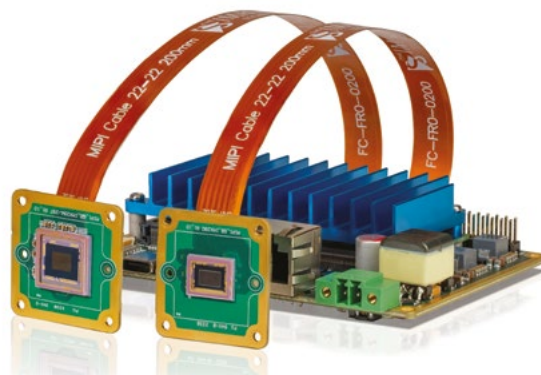


## NXP i.MX 8M Plus Reference Design

2-Channel MIPI CSI-2 Carrier Board With Toradex Verdin NXP i.MX 8M Plus SoM



Options for Prototyping and Mass Production:  
SoM, Carrier Board, Cameras, Lenses, Cables, Software



Reference Design with Carrier Board, NXP i.MX 8M Plus  
SoM and MIPI CSI-2 36S Cameras

# Embedded Vision Reference Design

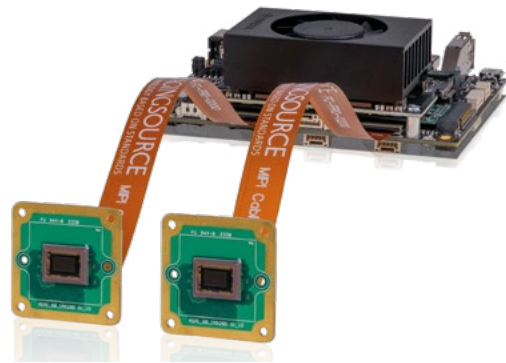
## NVIDIA® Jetson Orin™ with Carrier Board and Cameras

Designed for versatility, The Imaging Source's embedded vision platform for NVIDIA Jetson Orin supports up to 4 cameras per system via our modular board concept and Jetson Orin NX (Nano) SoM.

The integration of our MIPI CSI-2, FPD-Link III<sup>(1)</sup> and upcoming GMSL2<sup>(1,2)</sup> camera portfolio with robust industrial-grade computing enables precise application development, ensuring efficient turnaround of application-specific design changes that saves development time and related costs.

(1) FPD-Link III or GMSL2 cameras require an additional deserializer adapter board, which is available upon request.

(2) Upcoming cameras



Reference Design:  
Carrier Board With NVIDIA Jetson Orin SoM  
and MIPI CSI-2 36S Cameras

## Advantages and Features

- Single-Source Solution: Complete reference design for prototyping and mass production
- Camera resolutions: 0.4 MP - 20 MP
- Interfaces: MIPI CSI-2, FPD-Link III<sup>(1)</sup>, GMSL2<sup>(1, 2)</sup>
- Sensors: Latest Sony and onsemi CMOS sensors
- NVIDIA Jetson Orin NX (or Nano) for best image processing and AI performance
- Multi-camera support for up to 4 cameras per system
- Optimized costs with lean hardware design
- Optimized performance with custom configurations
- Scalability via SoM-based design
- Changes to board design with short cycle times
- Efficient first-to-market strategy
- Tailor-made camera drivers and software
- Seamless integration with software frameworks like Gstreamer, Open CV, and others
- MVTec HALCON support for best-in-class image processing



## NVIDIA® Jetson Orin™ Reference Design

2-Channel MIPI CSI-2 Carrier Board With Toradex Verdin NXP i.MX 8M Plus SoM



Options for Prototyping and Mass Production:  
SoM, Carrier Board, Cameras, Lenses, Cables, Software

Reference Design with Carrier Board, NVIDIA Jetson Orin  
SoM and MIPI CSI-2 36S Cameras

## Deserializer Boards for NVIDIA® Jetson™

The Imaging Source's 2- and 4-channel deserializers for NVIDIA® Jetson connect with our FPD-Link® III board and IP67-certified cameras.



2- or 4-Channel MIPI CSI-2 Carrier Board  
With NVIDIA® Jetson Orin NX SoM



2-/ 4- Channel FPD-Link III Deserializer  
for Reference Design With NVIDIA® Orin  
or NXP i.MX 8M Plus

# Video Signal Converters

Maximize Image Display and Capture Possibilities With Video Signal Converters.

The Imaging Source offers various video signal converters for a wide range of input signals and applications: Convert analog (PAL, NTSC, CCIR, EIA) video signals to digital image data streams; capture video signals from an HDMI source via USB 3.0 interface; reduce system footprint by directly connecting an HDMI display with any of The Imaging Source's USB industrial cameras using the USB-to-HDMI Converter.

The Imaging Source's free end-user software, IC Capture, IC Measure, and IC Imaging Control SDK, allows users to capture and process image data. The Windows drivers for the video signal converters are compatible with DirectShow.



## Features

- Video-to-USB 2.0: Convert analog video sources into data streams
- USB-to-HDMI: Direct camera to monitor imaging
- HDMI-to-USB: Capture HD / 4K HDMI signals via USB 3.0



## Video-to-USB 2.0 Converters



DFG/USB2aud



DFG/USB2pro



DFG/USB2propcb

## USB-to-HDMI Converter



DFG/USBtoHDMI



## HDMI-to-USB Converter



DFG/HDMI



# Cables

## USB, GigE, FFC/FPC, Coax

Robust, Industrial-Grade Cables for Your Machine Vision Application

There are several considerations that must be taken into account when choosing cables for image processing: Transmission distance, connector, cable type and length—just to name a few.

The Imaging Source offers a selection of standard USB and GigE cables, as well as IP67 and flat band cables for embedded vision solutions.



## Features

- USB 3.1: Type-C with locking screws (3 m)
- USB 3.0: Type-A with locking screws (3 m and 10 m)
- USB 2.0: Type-A with locking screws (5 m)
- GigE: RJ-45 (PoE)
- Embedded: MIPI (FFC/FPC); IP67 FAKRA (up to 15 m)
- I/O cables are available for USB and GigE Cameras.

## USB 3.1 and USB 3.0 Cables



USB 3.1



USB 3.0

## USB 2.0 and GigE (RJ-45) Cables

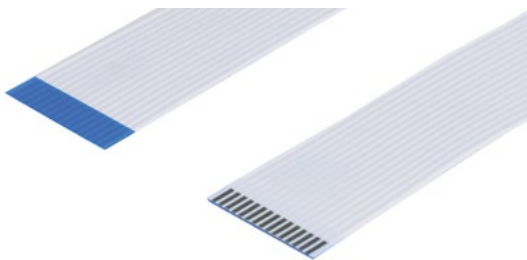


USB 2.0



GigE

## FFC/FPC and Coax (FAKRA) Cables



FFC/FPC



IP67 FAKRA cable

# IC Imaging Control

## Image Acquisition SDK

IC Imaging Control is a modern, universal, platform-independent, and powerful SDK for acquiring images from a video source, such as The Imaging Source's industrial cameras, frame grabbers and video converters.

The SDK automatically recognizes video sources and enables switching between them via program code. Single images, image sequences, and live video streams can be captured from a connected video source.

The SDK's latest version, IC Imaging Control 4, allows for an efficient, straight-forward and future-proof camera integration, compatibility, and application development.



## Advantages and Features

- Support for Windows, Linux x86 and Linux ARM
- Unified software environment based on GenICam GenTL
- Easy cross-platform development
- Rapid development with Python, .NET 6 or higher, C++, and C
- Highly-optimized image processing algorithms
- Support for platform-specific frameworks, e.g., GStreamer
- Numerous programming examples and extensive documentation
- Easy-to-use end-user applications to quickly set up cameras and perform common tasks.



Device Drivers



SDKs

- **Universal & Platform-independent SDK** for Windows, Linux x86, Linux ARM: Unlock the full potential of our industrial and embedded cameras with our robust SDK, which provides developers with a comprehensive set of APIs, programming examples, and documentation.
- **Enhanced Compatibility:** The IC4 SDK is fully GenICam GenTL compliant, providing full access to device settings and advanced camera features such as events and chunk data.
- **Performance:** The IC4 SDK has been optimized for high-performance acquisition tasks. This includes a reduction in unnecessary copy operations, ensuring efficiency in your workflow.
- **Versatile Device Drivers:** Generic device drivers allow for seamless integration of The Imaging Source's cameras into customer applications. They are available for use with IC Imaging Control 4 SDK and with third-party libraries supporting the GenICam GenTL standard such as MVTec HALCON, MATLAB, etc.
- **Native Language Support:** The IC4 SDK caters to a diverse range of developers with native support for programming languages such as Python, .NET 4, .NET6 or newer, C++, and C. While the SDK's structure functions identically between the supported languages, the SDK incorporates language-specific idioms where it is possible to maximize developer productivity.

# IC Capture

## Image Acquisition and On-Screen Measurement for Windows and Linux

IC Capture is a powerful end-user application for image acquisition, image pre-processing and measurement using any video device manufactured by The Imaging Source including industrial cameras, frame grabbers and video converters.

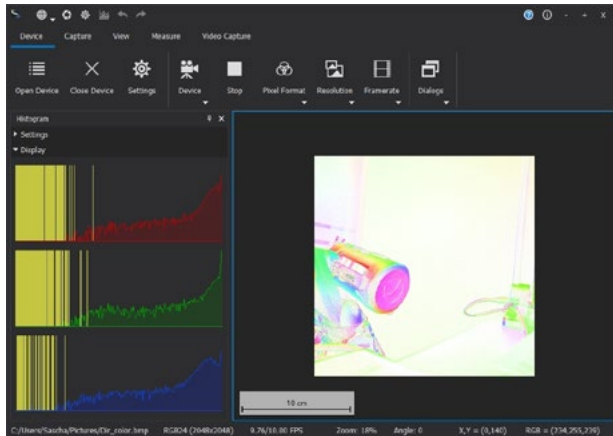
IC Capture harnesses the full power of previous end-user applications, such as IC Measure, by consolidating them into a single, intuitive application. This enables rapid and user-friendly evaluation and integration of The Imaging Source's cameras into a range of applications including computer vision, machine vision, microscopy, and robotics.



## Advantages and Features

- Multi-platform compatibility, e.g., for Windows, Linux x86 and Linux ARM
- Calibration with object micrometer, graph paper, or virtually any object of known size
- On-screen measurement of lengths, angles, areas and perimeters
- Saving and restoring the device settings
- Single image capture and automated image sequence export with automatic file name generation
- Saving image data streams to MP4 files, e.g., compressed with H.264 or H.265 codecs
- Flexible live image display with stepless zooming and panning of the image
- Advanced image processing filters, e.g., perspective correction, brightness contrast, invert, sobel
- User-defined live overlays using an integrated script LUA-API
- Histogram visualization
- User-friendly graphical interface available in English, German, Chinese, Korean, and Japanese to ensure seamless operation





- IC Capture offers a wide range of built-in filters such as noise reduction, sharpening, and color correction, providing advanced image optimization.
- The integrated lens correction allows for compensation of distortion and aberrations and for achieving of high-quality images.
- Thanks to the tone mapping function, images with a high dynamic range (HDR) are optimally displayed.
- The histogram feature supports simultaneous display of multiple histograms in multi-camera applications; direct display on the live image; histogram saving in the image; free configuration of size and orientation.
- The calibration tool allows for the definition of image scale. The calibration can be performed with an object micrometer (microscope) or another object of known length.
- On-Screen measurement tools for measurement of lengths, angles, circles and polygons.
- Annotation tools allow for inserting text, graphics, and marker arrows into images. They provide the ability to draw lines, rectangles, ellipses and polygons and support the customization of colors, fonts, and line widths.
- Custom live overlays such as crosshairs, histograms and timestamps can be created to display additional information on the screen in real time. Scripts are dynamically reloaded during processing to enable an optimal workflow.

# tiscamera

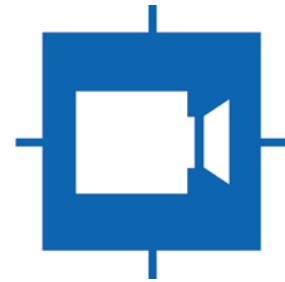
## Legacy Image Acquisition SDK for Linux

This Software Package Offers a User-Friendly SDK, Drivers, and Tools For Use With Any of The Imaging Source's Industrial Cameras.

For years, The Imaging Source has continuously maintained and developed its Linux library including the tiscamera SDK for Linux, an open-source project published under the Apache 2.0 license on GitHub.

Built on top of the GStreamer framework, tiscamera provides a collection of GStreamer elements which allow easy access to The Imaging Source's cameras and integration with a wide variety of third-party image processing software.

Since GStreamer can be accessed from various programming languages, developers can choose among programming languages when creating their applications. With just a few lines of code, developers can rapidly configure their camera, as well as display, capture and save images.



## Features

- Open-source camera SDK
- GStreamer integration
- Optimized image processing routines for many platforms (including arm64, Amd64, NVIDIA CUDA)
- Supports all The Imaging Source industrial camera interfaces, including MIPI CSI-2



- tiscamera installation packages are available for multiple platforms, e.g. x64, ARM64 including NVIDIA Jetson platforms and Raspberry Pi.
- Similar to IC Capture, the pre-built tcam-capture application allows the user to explore the camera and SDK features via convenient user interface.
- The tiscamera SDK is independent of the camera's hardware interface (USB, GigE, MIPI CSI-2) which allows applications created with tiscamera to use cameras with different interface standards.
- In addition to basic camera access and configuration, image preprocessing routines for common tasks such as debayering and image enhancement are available.
- The tcamdutills element contains highly-optimized algorithms for common hardware platforms, such as x64, ARM64 and NVIDIA CUDA.

# IC Barcode

## Barcode Detection Library

SDK for 1D and 2D Barcode Recognition in  
IC Imaging Control

IC Barcode is a highly accurate and powerful developer library, which recognizes 1D and 2D barcodes from digital images.

The SDK enables the integration of barcode recognition functionality into document processing systems and Windows applications.

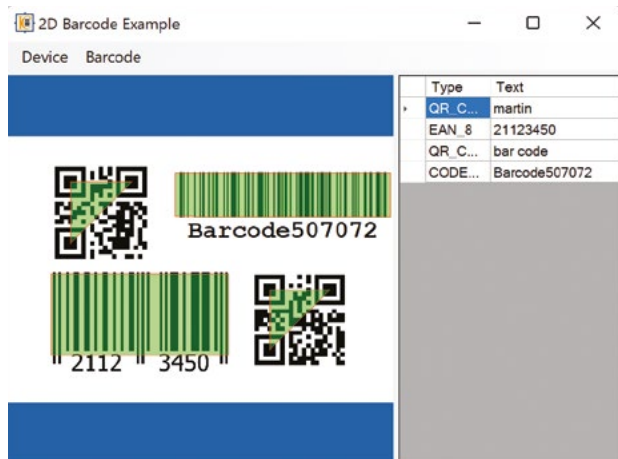
IC Barcode's unique and efficient barcode recognition algorithm searches for barcodes in any position and orientation within an image.



IC Barcode available for Windows  
and Linux platforms.

## Features

- Read multiple 1D and 2D barcodes at any orientation
- Report comprehensive information with 100% confidence for all detected barcodes.
- High-speed barcode recognition: Barcodes are located and reported back in a fraction of a second
- Speed up barcode detection / decoding process: Use custom configurations for barcode orientation, type or region of interest
- IC Barcode: Free software available for download



## Supported 1D Barcodes

- EAN8
- EAN13
- CODE39
- CODE93
- CODE128
- UPC\_A
- APC\_E
- INTERLEAVED\_2\_OF\_5

## Supported 2D Barcodes

- AZTEC
- DATA\_MATRIX
- QR CODE
- MAXICODE
- PDF417

# The Imaging Source Services

35 years of Experience Makes The Imaging Source an Invaluable Partner in Realizing Your Machine Vision Application.

The Imaging Source supports your machine vision projects with precision-engineered components, expert consultation, and tailored solutions. Whether you need integration-ready vision systems, custom branding, pre-configured settings, or specialized advice, our team is here to ensure your success in even the most complex applications.







## Integration-Ready Vision Components

The Imaging Source provides a wide range of integration-ready vision components, from MIPI CSI-2 sensors to fully featured industrial cameras and imaging software. We understand that successful integration requires precise control over numerous hardware and software parameters. To streamline this process for our customers, The Imaging Source offers comprehensive hardware assembly and software customization services. This includes the assembly of complex vision systems, such as embedded vision modules, IP-rated components (e.g. IP68), and specialized lens configurations. We also set and secure critical parameters, including focus, aperture, and zoom, ensuring they remain stable in demanding environments. Additionally, we install customer-specific software and calibrate intrinsic parameters, delivering a solution that is ready to integrate, saving you valuable time and resources.

## Custom Branding and Firmware

The Imaging Source offers custom branding and firmware options to align our cameras with your company's identity and operational needs. We can label cameras with your company name and custom model numbers, making it easier to distinguish between multiple cameras in a system, especially when software cannot differentiate by serial numbers alone. Moreover, we allow customers to specify the firmware version installed on each camera, ensuring consistency across all units. This service is particularly beneficial in regulated industries like the medical sector, where maintaining a specific firmware version is crucial for compliance and reliability.

## Pre-Configured GigE Camera Settings

To simplify deployment, The Imaging Source offers pre-configuration services for GigE cameras. We can program a fixed IP address, user-defined camera names, and other settings directly into the default user dataset of each camera. This pre-configuration eliminates the need for manual setup, which can be time-consuming, especially when dealing with multiple cameras across several machines. By agreeing on a separate article code, we ensure that every camera arrives with the correct configuration, allowing for quick and efficient integration into your system.

## Machine Vision System Consultation

Effective machine vision starts with a well-designed system tailored to your specific application. The Imaging Source's experienced interdisciplinary team offers expert consultation to help you develop a machine vision system that meets your exact requirements, regardless of industry or application. Over 35 years, The Imaging Source has supported thousands of machine vision integrators and automation equipment manufacturers, from basic capture-and-archive setups to high-precision measurement systems. Our guidance ensures that your machine vision system is optimized for performance, reliability, and integration, providing you with the tools to succeed in even the most challenging environments.

# Present All Over The World

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Fax: +1 (704) 542-0936

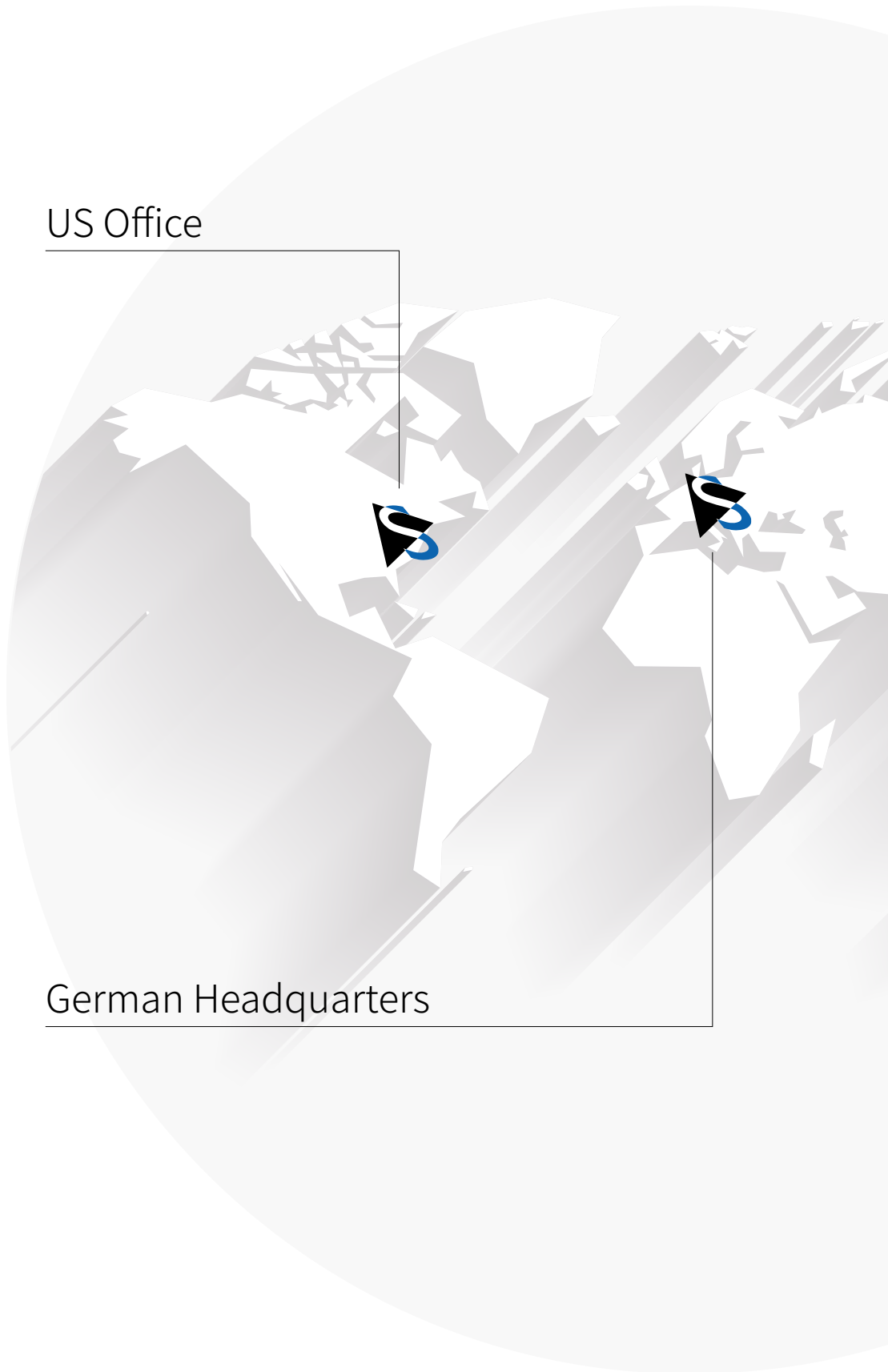
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## German Headquarters





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Unless otherwise specified, the lenses shown with the cameras must be purchased separately. All weights and dimensions are approximate.

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