

mvBlueLYNX

Discontinued



- Versatile, powerful video sensor and intelligent camera
- Compact Embedded Linux OS with optimum network integration
- mvIMPACT as well as different standard solutions available
- C/C++ - software - development environment on standard PC
- Area and line scan sensor versions available
- Since 6xx: USB 2.0 interface for easy device link-up

The proven mvBlueLYNX design with its fast PowerPC processor covers video sensor and intelligent camera applications. Easy development and smooth integration in your network offer a significant reduction of time-to-market for image processing solutions. The compact, integrated design forms the base for reliable usage in harsh environments.

Complete series meets different requirements:

- for cost-sensitive applications: -2xx
- standard product line: -4xx
- module line: -M7xx
- with all interfaces: -X
- resolution: 640 x 480: -xx0
- resolution: 1024 x 768: -xx1

- high performance
product line: -6xx
- sensor type: CMOS area:
-x00
- sensor type: CCD area:
-x20
- sensor type: CCD line:
-x40
- gray scale / color sensors:
-G / -C
- resolution: 1280 x 1024:
-xx2
- resolution: 1600 x 1200:
-xx4
- resolution: 512 x 1: -x40
- resolution: 1024 x 1:
-x41
- resolution: 2048 x 1:
-x42

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- Sensors
- Families
- Hardware
- Software
- Application areas
- Downloads

ID	Zusatz	Sensor manufa cturer	Sensor name	Sensor type	Resoluti on	200	200X	400	400X	600	600X
-x00	-G	Kodak	KAC-9 618/28	CMOS Area	640 x 480	-	200GX	400G	400GX	-	600GX
-x00	-C	Kodak	KAC-9 618/28	CMOS Area	640 x 480	-	200CX	400C	400CX	-	600CX
-x02a	-G	Micron	MT9M 001	CMOS Area	1280 x 1024	-	-	-	402aG X	-	602aG X
-x20	-G	Sony	ICX098 AL/BL	CCD Area	640 x 480	-	220GX	-	420GX	-	620GX
-x20	-C	Sony	ICX098 AL/BL	CCD Area	640 x 480	-	220CX	-	420CX	-	620CX
-x20a	-G	Sony	ICX424	CCD	640 x	-	-	-	420aG	-	620aG

-x20a	-C	Sony	ICX424CCD	640 x	-	-	-	420aC	-	X	620aC
			AL/AQ Area	480				X		X	
-x21	-G	Sony	ICX204CCD	1024 x	-	-	-	421GX	-		621GX
			AL/AQ Area	768							
-x21	-C	Sony	ICX204CCD	1024 x	-	-	-	421CX	-		621CX
			AL/AQ Area	768							
-x24	-G	Sony	ICX274CCD	1600 x	-	-	-	424GX	-		624GX
			AL/AQ Area	1200							
-x24	-C	Sony	ICX274CCD	1600 x	-	-	-	424CX	-		624CX
			AL/AQ Area	1200							
-x40	-G	Dalsa	IL- CCD	512	-	-	-	440GX	-		640GX
			P3-B Line								
-x41	-G	Dalsa	IL- CCD	1024	-	-	-	441GX	-		641GX
			P3-B Line								
-x42	-G	Dalsa	IL- CCD	2048	-	-	-	442GX	-		642GX
			P3-B Line								

Model	Variant	CPU (MHz)	FLASH (MB)	SDRAM (MB)	Display	LAN (Mbps)	Serial I/O	USB	I/Os
-2xx	-C / -G	133	32+4	32	-	100	2	-	-
-2xx	-CX / -GX	133	32+4	32	SVGA	100	2	-	8/8
-4xx	-C / -G	200	32+4	32	-	100	2	-	-
-4xx	-CX / -GX	200	32+4	32	XGA	100	2	-	8/8
-6xx	-C / -G	400	32+4	64	-	100	2	-	-
-6xx	-CX / -GX	400	32+4	64	XGA	100	2	1	8/8

- PowerPC - CPU with MMU & FPU
- 32 MB NOR-FLASH (Linux system files 4MB. user area 28 MB. Approx. 40 MB for user available by using compressed filesystem.)
- 4 MB NAND-FLASH (Bootloader. Kernel. safeboot system. system configuration parameters)
- Image acquisition with DMA
- Power supply 12..24 V DC. min. 6..13 W
- Permissible ambient temperature:- perf 0 .. 45 orman°C / ce: 30 .. 80 %RH - stora20 .. ge: 90 %RH
- Dig. I/O to PLC and peripherals
- C-mount lens. on request: S-mount. CS-mount
- CCD with trigger input and add. illumination connector
- Size without lens (w x h x l): 50 x 88 x 75 mm
- Weight without lens : approx. 400 g

Features of the 6xx series

- Weight without lens: approx. 450 g
- Permissible ambient temperature:- perf 0 .. 40 orman°C / ce: 30 .. 80 % RH

- stora20 ..
ge: 90 %
RH

- Size without lens (w x h x l): 50 x 88 x 101 mm

Features of the line scan versions (x4x)

- C-mount, opt. 2K:
M42/F-mount
- Size without lens (w x h x l): 50 x 88 x 110 mm
- Comes with free
mvIMPACT Base library
- Many Open Source
applications available

General purpose

- Replaces complete PC
based image processing
systems
- Replaces central image
processing systems with
many cameras by
- Replaces div. sensors:
light barriers, color
sensors, laser sensors

distributed intelligence

Machine Vision

- 2D / 3D measurement
- Barcode reader
- Pattern recognition
- Production control
- Inspection
- OCR, OCV
- Data Matrix code reader
- Color control
- Robotics
- Traffic monitoring

Security / Surveillance

- Video sensors
- Video compression
- Digital alarm I/O's
- Motion detection
- Image transfer via LAN

Preconfigured development environment

 [mvBlueLYNX SDK - DVD ISO \(4.2 GiB\)](#)

 [mvBlueLYNX SDK \(MD5\)](#) | 0.1 kB

MD5-Prüfsumme / MD5 checksum

Manuals

 [mvBlueLYNX manual \(chm\)](#) | 4,859.3 kB

mvBlueLYNX Handbuch / Manual

[Hinweis / Note](#)

 [mvBlueLYNX technical manual \(html\)](#)

mvBlueLYNX Technisches Handbuch / Technical Manual

 [Change over C mount to CS mount](#) | 195.7 kB

Change over C mount to CS mount (mvBlueFOX, mvBlueLYNX, mvBlueLYNX-M)

 [Change of the optical filter](#) | 197.8 kB

Change of the optical filter (mvBlueFOX, mvBlueLYNX, mvBlueLYNX-M)

Datasheets

 [mvBlueLYNX e 2010-05 MR](#) | 203.0 kB

Datenblatt / Datasheet mvBlueLYNX

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