

### Basler boost

It's time to launch your application into new galaxies of performance

The boost is our first camera with a CoaXPress 2.0 interface that offers its users an unprecedentedly high bandwidth for data transfer. New CMOS sensors are combined with the latest frame grabber technology. This leads to easy and fast transmission of large amounts of data over long distances – for an extraordinary price/ performance ratio.

### Evolve with CoaXPress 2.0 (CXP-12)

With the boost series, Basler is one of the first camera manufacturers on the market to expand its portfolio with a camera featuring the CoaXPress standard in its version 2.0 combined with modern CMOS sensor technology. High speed, high resolution and easy cabling are just some of the advantages of this match of latest technology developments. Upgrade your Camera Link or CXP-6 vision system and reduce your system costs significantly by switching to CoaXPress 2.0 with our boost series.

### Evaluation Kit – Everything You Need for Testing

Testing is essential, but it's also a hassle, and can slow down your project plans, especially when dealing with new interface versions like e.g. CoaXPress 2.0. Therefore, we provide not only camera and interface card, but also all suitable vision components for your test scenario including CoaXPress cable, I/O cable, heat sinks and lens mount adapter. For more information on the CXP-12 interface cards, please see [page 50](#).

### Highlights

- Excellent image quality via Sony sensors of the 2nd (Pregius) to 4th generation (Pregius S) and sensors of the XGS series from onsemi as ideal successors of CCD sensors
- 12.5 Gbps transfer rate through one channel
- Impeccable image transmission via powerful CoaXPress 2.0 (CXP-12) interface
- Easy installation with matching Basler CXP-12 interface card

For more information, please visit [baslerweb.com/boost](http://baslerweb.com/boost)



**BOOST**
**Product Group Specifications**

Interface	CoaXPress 2.0 (CXP-12)
Housing Size [L × W × H]	45 mm × 80 mm × 80 mm
Housing Temperature during operation	0 °C - 50 °C
Typical Weight	480 g
Lens Mount	Flexible mount concept (e.g. adapters available for C-mount, F-mount, M42 × 0.75 and M42 × 1)
Power Supply	PoCXP or 24 VDC
Digital I/O	1/2 inputs, 2 GPIO
Synchronization	Via hardware trigger, via software trigger, or free-run
Exposure Control	Via hardware trigger or programmable via the camera API
Conformity	RoHS, CE, GenICam, KC, UL, EAC <sup>1</sup> , CoaXPress 2.0
Driver	Basler pylon Camera Software Suite
Operating System	Windows, Linux (64-Bit)

<sup>1</sup>Only for selected models, please refer to our website [baslerweb.com/boost](http://baslerweb.com/boost) for detailed information.

CAMERA MODEL	SENSOR	RESOLUTION [H×V PIXELS]	RESOLUTION [MP]	SENSOR TYPE	SHUTTER	FRAME RATE [FPS]	PIXEL SIZE [μm <sup>2</sup> ]	OPTICAL SIZE
<b>boost</b>								
★ boa1936-400cm/cc	IMX421	1936 × 1464	3	CMOS	Global	400	4.5 × 4.5	2/3"
★ boa2448-250cm/cc	IMX537	2448 × 2048	5	CMOS	Global	250	2.74 × 2.74	1/1.8"
★ boa2832-190cm/cc	IMX536	2840 × 2840	8	CMOS	Global	190	2.74 × 2.74	2/3"
boA4096-93cm/cc	IMX255	4096 × 2168	9	CMOS	Global	93	3.45 × 3.45	1"
★ boA4096-180cm/cc	IMX535	4096 × 3000	12	CMOS	Global	180	2.74 × 2.74	1/1.1"
boA4112-68cm/cc	IMX253	4096 × 3000	12	CMOS	Global	68	3.45 × 3.45	1.1"
boA5320-150cm/cc	IMX532	5320 × 3032	16.1	CMOS	Global	150	2.74 × 2.74	1.1"
boA4504-100cm/cc	IMX531	4504 × 4504	20.2	CMOS	Global	100	2.74 × 2.74	1.1"
boA5328-100cm/cc	IMX530	5328 × 4608	24.4	CMOS	Global	100	2.74 × 2.74	1.2"
boA4500-45cm/cc	XGS20000	4500 × 4500	20	CMOS	Global	45	3.2 × 3.2	1.3"
boA6500-36cm/cc	XGS32000	6560 × 4948	32	CMOS	Global	35	3.2 × 3.2	APS-C
boA8100-16cm/cc	XGS45000	8192 × 5468	45	CMOS	Global	15	3.2 × 3.2	Super 35mm
★ CXP-12 Evaluation Kit boa1936-400cm/cc 1C	IMX421	1936 × 1464	3	CMOS	Global	400	4.5 × 4.5	2/3"
★ CXP-12 Evaluation Kit boa2448-250cm/cc 2C	IMX537	2448 × 2048	5	CMOS	Global	250	2.74 × 2.74	1/1.8"
★ CXP-12 Evaluation Kit boa2832-190cm/cc 2C	IMX536	2840 × 2840	8	CMOS	Global	190	2.74 × 2.74	2/3"
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CXP-12 Evaluation Kit boA5320-150cm/cc 2C	IMX532	5320 × 3032	16.1	CMOS	Global	150	2.74 × 2.74	1.1"
CXP-12 Evaluation Kit boA4504-100cm/cc 2C	IMX531	4504 × 4504	20.2	CMOS	Global	100	2.74 × 2.74	1.1"
CXP-12 Evaluation Kit boA5328-100cm/cc 2C	IMX530	5328 × 4608	24.4	CMOS	Global	100	2.74 × 2.74	1.2"
CXP-12 Evaluation Kit boA4500-45cm/cc 1C	XGS20000	4500 × 4500	20	CMOS	Global	45	3.2 × 3.2	1.3"
CXP-12 Evaluation Kit boA6500-36cm/cc 1C	XGS32000	6560 × 4948	32	CMOS	Global	35	3.2 × 3.2	APS-C
CXP-12 Evaluation Kit boA8100-16cm/cc 1C	XGS45000	8192 × 5468	45	CMOS	Global	15	3.2 × 3.2	Super 35mm

For more information on the CXP-12 interface cards included in the evaluation kits, please see [page 50](#).



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