Basler IP Fixed Box Cameras

NETWORK CAMERAS

BIP2-1920-30c WITH SONY IMX174 SENSOR

- Premium image quality
- CCD and CMOS sensors
- 1.3 to 5 megapixels
- Multi-streaming and multi-encoding
- MJPEG, MPEG-4, H.264

BASLER
the power of sight

OVERVIEW

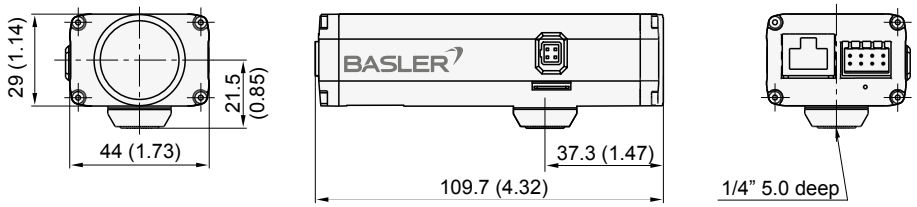
Basler IP Fixed Box Cameras

Basler's network camera portfolio includes IP fixed box cameras with CCD or CMOS sensors providing resolutions from 1.3 to 5 megapixels. You'll find that their brilliant image quality and frame rates of up to 30 fps make a convincing argument.

With their robust metal housings and 109.7 mm × 29 mm × 44 mm dimensions, our network box cameras are an ideal choice for your application. They are equipped with a CS-mount with DC iris drive as a standard feature, so you can choose from a wide range of camera lenses and integrate the most suitable one for your security needs. Their built-in microSDHC card slot can be used for local file storage of up to 32 MB of data.

Basler IP Cameras are used in a variety of applications, ranging from building surveillance, bank and casino security, goods protection, and traffic applications. Does your project require a special camera solution? Please contact us and we'll help you find the right fit for your application!

Dimensions (in mm)



TECHNICAL DETAILS

Specifications

CCD Sensor Cameras	BIP2-1300c/ BIP2-1300c-dn	BIP2-1600c/ BIP2-1600c-dn	BIP2-1600-25c/ BIP2-1600-25c-dn
Image Sensor	Progressive Scan CCD, global shutter	Progressive Scan CCD, global shutter	Progressive Scan CCD, global shutter
Effective Pixels	1280 (H) × 960 (V)	1600 (H) × 1200 (V)	1600 (H) × 1200 (V)
Eff. Optical Format	1/3″	1/1.8″	1/1.8″
Frame Rate (max.) Full Resolution:	MJPEG 30 fps, MPEG-4 30 fps, H.264 30 fps	MJPEG 12.5 fps, MPEG-4 12.5 fps, H.264 12.5 fps	MJPEG 25 fps, MPEG-4 25 fps, H.264 25 fps
Pixel Size	3.75 µm × 3.75 µm	4.4 µm × 4.4 µm	4.4 µm × 4.4 µm
Day/Night	Movable IR-Cut Filter (BIP2-1300c-dn)	Movable IR-Cut Filter (BIP2-1600c-dn)	Movable IR-Cut Filter (BIP2-1600-25c-dn)
Minimum Illumination	Color: 0.34 lux (F1.2/33ms), Day/Night: 0.09 lux (F1.2/33ms)	Color: 0.4 lux (F1.4/33ms), Day/Night: 0.11 lux (F1.4/33ms)	Color: 0.4 lux (F1.4/33ms), Day/Night: 0.11 lux (F1.4/33ms)
Lens	CS-mount, DC iris drive (lens not included)		
Image Settings	Automatic gain, exposure area, backlight compensation, white balance, 180° image rotation, mirroring of images, anti-flicker, electronic PTZ via AOI (API), text overlay, privacy masks, motion detection		
Resolution	From 160 × 120 to 1280 × 960 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)	From 160 × 120 to 1600 × 1200 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)	From 160 × 120 to 1600 × 1200 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)
Video Compression	Motion JPEG: Multiple compression levels MPEG-4: SP (Level 3) H.264 (MPEG-4 AVC): Baseline and high profile (levels up to 5.0)		
Video Streaming	Multi-encoding and multi-streaming for MJPEG, H.264, and MPEG-4; VBR and CBR for MJPEG and MPEG-4; VBR, CBR, and CVBR for H.264; multicast and unicast; Uncompressed YUV images using real-time trigger (max. 4 fps)		
Alarm Management	Ring buffer for pre and post alarm images, microSDHC card slot for local storage Events triggered by motion detection or external input (real-time trigger) Image upload over FTP, e-mail, or HTTP		
Protocols	TCP/IP, HTTP, UDP, FTP, ICMP, ARP, DHCP, NTP, RTP, RTSP, RTCP, SMTP, IGMP, ZEROCONF, QoS Layer 3, SNMP		
Processor/Memory	Multimedia Video Processor, FPGA, 256 MB RAM, 64 MB Flash		
Power	PoE (Power over Ethernet IEEE 802.3af Class 2) or 12 to 24 VDC, power consumption typ. 3.5 W max. at 12 VDC	PoE (Power over Ethernet IEEE 802.3af Class 2) or 12 to 24 VDC, power consumption typ. 3.4 W at 12 VDC	PoE (Power over Ethernet IEEE 802.3af Class 2) or 12 to 24 VDC, power consumption typ. 4.6 W at 12 VDC
Connectors	RJ-45 connector for 10/100 BASE-T Ethernet, full or half duplex 8-pin terminal for DC power, digital I/O, and RS-485		
Operating Conditions	-10 °C to 50 °C (14 °F to 122 °F), <90% relative humidity (non-condensing), starting temperature: 0 °C to 50 °C (32 °F to 122 °F)	-10 °C to 50 °C (14 °F to 122 °F), <90% relative humidity (non-condensing), starting temperature: 0 °C to 50 °C (32 °F to 122 °F)	-10 °C to 45 °C (14 °F to 113 °F), <90% relative humidity (non-condensing), starting temperature: 0 °C to 45 °C (32 °F to 113 °F)
Standards	DIN EN 50130-4, FCC Class B, CE, RoHS, ONVIF	DIN EN 50130-4, FCC Class B, CE, RoHS, ONVIF	DIN EN 50130-4, FCC Class A, CE, RoHS, ONVIF
Housing	109.7 mm × 29 mm × 44 mm (full metal casing)		
Weight	~210 g		

Specifications are subject to change without prior notice. Latest specifications and availability can be found on our website *baslerweb.com/box*

TECHNICAL DETAILS

Specifications

CMOS Sensor Cameras	BIP2-1280c/ BIP2-1280c-dn	BIP2-1920-30c	BIP2-1920c/ BIP2-1920c-dn	BIP2-2500c/ BIP2-2500c-dn
Image Sensor	Progressive Scan CMOS, rolling shutter	Progressive Scan CMOS, global shutter	Progressive Scan CMOS, rolling shutter	Progressive Scan CMOS, rolling shutter
Effective Pixels	1280 (H) × 720 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	2560 (H) × 1920 (V)
Eff. Optical Format	1/3″	1/1.3″	1/3″	1/2,5″
Frame Rate (max.) Full Resolution:	MJPEG 30 fps MPEG-4 30 fps H.264 30 fps	MJPEG 30 fps MPEG-4 24 fps H.264 30 fps	MJPEG 30 fps MPEG-4 24 fps H.264 30 fps	MJPEG 9 fps 15 fps MPEG-4 9 fps 15 fps H.264 9 fps 15 fps (3MP)
Pixel Size	3.3 µm × 3.3 µm	5.86 µm × 5.86 µm	2.2 µm × 2.2 µm	2.2 µm × 2.2 µm
Day/Night	Movable IR-Cut Filter (BIP2-1280c-dn)	–	Movable IR-Cut Filter (BIP2-1920c-dn)	Movable IR-Cut Filter (BIP2-2500c-dn)
Minimum Illumination	Color: 0.55 lux (F1.2/33ms), Day/Night: 0.13 lux (F1.2/33ms)	Color: 0.2 Lux (F1.4/33ms)	Color: 0.65 lux (F1.2/33ms), Day/Night: 0.15 lux (F1.2/33ms)	
Lens*	CS-mount, DC iris drive	C-mount, DC iris drive	CS-mount, DC iris drive	CS-mount, DC iris drive
Image Settings	Automatic gain, exposure area, backlight compensation, white balance, 180° image rotation, mirroring of images, anti-flicker, electronic PTZ via AOI (API), text overlay, privacy masks, motion detection			
Resolution	From 160 × 120 to 1280 × 720 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)	From 160 × 120 to 1920 × 1080 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)	From 160 × 120 to 1920 × 1080 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)	From 160 × 120 to 2560 × 1920 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)
Video Compression	Motion JPEG: Multiple compression levels MPEG-4: SP (Level 3) H.264 (MPEG-4 AVC): Baseline and high profile (levels up to 5.0)			
Video Streaming	Multi-encoding and multi-streaming for MJPEG, H.264, and MPEG-4; VBR and CBR for MJPEG and MPEG-4; VBR, CBR, and CVBR for H.264; multicast and unicast	Multi-encoding and dual-streaming for MJPEG, H.264, and MPEG-4 ,VBR and CBR for MJPEG and MPEG-4; VBR, CBR, and CVBR for H.264; multicast and unicast; Uncompressed YUV images using real-time trigger (max. 4 fps)	Dual streaming for MJPEG, H.264, or MPEG-4; VBR and CBR for MJPEG and MPEG-4; VBR, CBR, and CVBR for H.264; multicast and unicast	
Alarm Management	Ring buffer for pre and post alarm images, micro SDHC card slot for local storage Events triggered by motion detection or external input Image upload over FTP, e-mail, or HTTP			
Protocols	TCP/IP, HTTP, UDP, FTP, ICMP, ARP, DHCP, NTP, RTP, RTSP, RTCP, SMTP, IGMP, ZEROCONF, QoS Layer 3, SNMP			
Processor/Memory	Multimedia Video Processor, FPGA, 256 MB RAM, 64 MB Flash			
Power	PoE (Power over Ethernet IEEE 802.3af Class 2) oder 12 bis 24 VDC, Leistung typ. 3,2 W bei 12 VDC			
Connectors	RJ-45 connector for 10/100 BASE-T Ethernet, full or half duplex 8-pin terminal for DC power, digital I/O, and RS-485			
Operating Conditions	-10 °C to 50 °C (14 °F to 122 °F), <90% relative humidity (non-condensing), starting temperature: 0 °C to 50 °C (32 °F to 122 °F)			
Standards	DIN EN 50130-4, FCC Class B, CE, RoHS, ONVIF			
Housing	109.7 mm × 29 mm × 44 mm (full metal casing)			
Weight	~210 g			

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* lens not included

OTHER INFORMATION

How Does Basler Measure and Define Image Quality?

1288 EMVA Standard Compliant

Basler is leading the effort to standardize image quality and sensitivity measurement for cameras and sensors. We are giving the EMVA 1288 standard our strongest support because it describes a unified method to measure, compute, and present the specification parameters for cameras and image sensors. Our cameras are characterized and measured in 100% compliance with the EMVA 1288 standard. Measurement reports can be downloaded from our website.

How Does Basler Ensure Superior Quality and Reliable High Performance?

Our approach to quality assurance is rigorous: we continually audit all facets of our business to ensure powerful performance, increase efficiency and reduce costs for our customers. We are compliant with all major quality standards including ISO 9001, CE, RoHS, and more. To ensure consistently high product quality, we employ several quality inspection procedures during manufacturing.

Every Basler camera is subjected to exhaustive optical and mechanical tests before leaving the factory. We have developed a unique combination of optics, hardware, and software tools that can quickly and efficiently calibrate a camera and measure its performance against a set of standard performance criteria. Regardless of what technology or camera model you choose you can be assured of consistent performance.

3-Year Warranty

Basler offers a 3-year warranty for their cameras and Basler Lenses 1/2.5". We make this unprecedented promise because we have unparalleled confidence in our products. We continually reinvest in research, development and superior manufacturing capabilities so that our customers can fully rely on the products we manufacture.

About Basler

Basler is a leading manufacturer of high-quality cameras and camera accessories for industry, medicine, traffic and a variety of other markets. The company's product portfolio encompasses area scan and line scan cameras in compact housing dimensions, camera modules in board level variants for embedded vision solutions, and 3D cameras. The catalog is rounded off by our user-friendly pylon SDK plus a broad spectrum of accessories, including several developed specially for Basler and optimally harmonized for our cameras.

Basler has three decades of experience in computer vision. The Basler Group is home to approximately 800 employees at its headquarters in Ahrensburg, Germany, and at other locations in Europe, Asia, and North America.

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