

# Basler IP Fixed Dome Cameras

NETWORK CAMERAS



- Premium image quality
- CCD and CMOS sensors
- HD, Full HD
- Multi-streaming and multi-encoding
- MJPEG, MPEG-4, H.264

# OVERVIEW

## Basler IP Fixed Dome Cameras

Basler's network camera portfolio includes robust, easy-to-install network cameras with dome housings for your network video applications outdoors and under tough indoor conditions. Basler IP Fixed Dome Cameras will impress you with their exceptional image quality and light sensitivity. We also offer dome camera models with integrated audio and auto focus functionalities.

With their built-in heater and fan, Basler's outdoor dome cameras work at extreme operating temperatures from -40 °C to +50 °C (-40 °F to +122 °F). Basler's dome cameras are especially energy efficient. All camera functions, including the fan and heater, can be powered using standard PoE (Power over Ethernet IEEE 802.3af Class 0). 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!



# TECHNICAL DETAILS

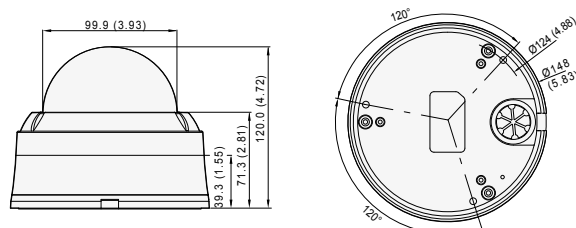
## Specifications



CMOS Sensor Cameras	BIP2-D1920c-dn (Indoor)	BIP2-D1920c-dn (Indoor, AF)	
Image Sensor	Progressive Scan CMOS, rolling shutter		
Effective Pixels	1920 (H) x 1440 (V)		
Frame Rate (max.)	MJPEG	MPEG-4	H.264
Full Resolution:	20 fps	20 fps	20 fps
Full HD (1920 x 1080):	30 fps	30 fps	30 fps
Pixel Size	2.2 $\mu\text{m}$ x 2.2 $\mu\text{m}$		
Minimum Illumination	Color: 0.88 lux (F1.3/33ms), Day/Night: 0.15 lux (F1.3/33ms)		
Lens	Varifocal 2.8-10 mm, F1.3, DC iris, horizontal angle of view 25°-88°, movable IR-cut filter for day/night function		
Auto Focus	No	Yes	
Camera Angle Adjustment	Pan: 360°, tilt: 120°, rotation: $\pm 180^\circ$		
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 x 120 to 1920 x 1440 (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	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		
Audio	Bidirectional half-duplex audio streaming; mic-in/line-in, line-out; G.711		
Alarm Management	Ring buffer for pre and post alarm images, microSDHC 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) Power consumption typ. 5.5 W at 12 VDC		
Connectors	RJ-45 connector for 10/100 BASE-T Ethernet, full or half duplex Push-in terminal for digital I/O and RS-485/422		
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 A, CE, RoHS, ONVIF		
Housing	$\varnothing$ 148 mm x 122 mm ( $\varnothing$ 5.83" x 4.8") plastic chassis with polycarbonate dome bubble		
Weight	~0.6 kg		

Specifications are subject to change without prior notice.

## Dimensions in mm (inch)



# TECHNICAL DETAILS

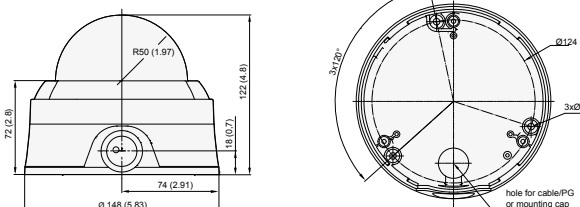
## Specifications



CMOS Sensor Cameras	BIP2-D1920c-dn (Outdoor)		BIP2-D1920c-dn (Outdoor, AF)
Image Sensor	Progressive Scan CMOS, rolling shutter		
Effective Pixels	1920 (H) x 1440 (V)		
Frame Rate (max.)	MJPEG	MPEG-4	H.264
Full Resolution:	20 fps	20 fps	20 fps
Full HD (1920 x 1080):	30 fps	30 fps	30 fps
Pixel Size	2.2 $\mu\text{m}$ x 2.2 $\mu\text{m}$		
Minimum Illumination	Color: 0.88 lux (F1.3/33ms), Day/Night: 0.15 lux (F1.3/33ms)		
Lens	Varifocal 2.8-10 mm, F1.3, DC iris, horizontal angle of view 25°-88°, movable IR-cut filter for day/night function		
Auto Focus	No	Yes	
Camera Angle Adjustment	Pan: 360°, tilt: 120°, rotation: $\pm 180^\circ$		
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 x 120 to 1920 x 1440 (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	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		
Audio	Bidirectional half-duplex audio streaming; mic-in/line-in, line-out; G.711		
Alarm Management	Ring buffer for pre and post alarm images, microSDHC 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 0) or 12 to 24 VDC Power consumption typ. 5.5 W at 12 VDC (excl. heater)		
Connectors	RJ-45 connector for 10/100 BASE-T Ethernet, full or half duplex Push-in terminal for DC power, digital I/O, and RS-485/422		
Operating Conditions	-40 °C to 50 °C (-40 °F to 122 °F), <90% relative humidity (non-condensing) Starting temperature: -40 °C to 50 °C (-40 °F to 122 °F)		
Standards	DIN EN 50130-4, FCC Class A, CE, RoHS, ONVIF		
Housing	$\varnothing$ 148 mm x 122 mm ( $\varnothing$ 5.83" x 4.8") vandal-proof aluminum chassis with polycarbonate dome bubble, IP66		
Weight	-1.0 kg		

Specifications are subject to change without prior notice.

## Dimensions in mm (inch)



# TECHNICAL DETAILS

## Specifications



CCD Sensor Cameras	BIP2-D1000c-dn			BIP2-D1300c-dn		
Image Sensor	Progressive Scan CCD, global shutter			Progressive Scan CCD, global shutter		
Effective Pixels	1024 (H) x 768 (V)			1280 (H) x 960 (V)		
Frame Rate (max.) Full Resolution:	MJPEG 30 fps	MPEG-4 30 fps	H.264 30 fps	MJPEG 30 fps	MPEG-4 30 fps	H.264 30 fps
Pixel Size	4.65 µm x 4.65 µm			3.75 µm x 3.75 µm		
Minimum Illumination	Color: 0.53 lux (F1.3/33ms), Day/Night: 0.14 lux (F1.3/33ms)			Color: 0.42 lux (F1.3/33ms), Day/Night: 0.10 lux (F1.3/33ms)		
Lens	Varifocal 2.8-10 mm, F1.3, DC iris, horizontal angle of view 28°-100°, movable IR-cut filter for day/night function					
Camera Angle Adjustment	Pan: 360°, tilt: 120°, rotation: ±180°					
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 x 120 to 1024 x 768 (free scaling), 4:3, 16:9, multiple Areas of Interest (AOIs)			From 160 x 120 to 1280 x 960 (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)					
Audio	Bidirectional half-duplex audio streaming; mic-in/line-in, line-out; G.711					
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 0) or 12 to 24 VDC Power consumption typ. 5.5 W at 12 VDC (excl. heater)					
Connectors	RJ-45 connector for 10/100 BASE-T Ethernet, full or half duplex Push-in terminal for DC power, digital I/O and RS-485/422					
Operating Conditions	-40 °C to 50 °C (-40 °F to 122 °F), <90% relative humidity (non-condensing) Starting temperature: -40 °C to 50 °C (-40 °F to 122 °F)					
Standards	DIN EN 50130-4, FCC Class A, CE, RoHS, ONVIF			DIN EN 50130-4, FCC Class B, CE, RoHS, ONVIF		
Housing	Ø148 mm x 122 mm (Ø5.83" x 4.8") vandal-proof aluminum chassis with polycarbonate dome bubble, IP66					
Weight	-1.0 kg					

Specifications are subject to change without prior notice.

## OTHER INFORMATION

### 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 guarantee performance, increase efficiency and reduce costs for our customers. We are compliant with all major quality standards including ISO 9001, CE, RoHS, ONVIF, 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 our cameras. 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

Founded in 1988, Basler is a leading global manufacturer of high quality digital cameras for industrial, medical, traffic and video surveillance applications. The company employs more than 400 people at its headquarters in Ahrensburg, Germany and subsidiaries in the United States and Asia.

Basler's portfolio of products offers customers the vision industry's widest selection of industrial and network cameras. Today it includes some 300 models – and it's still growing. We're committed to developing technology that drives business results for our customers: cameras that are easy to use, easy to integrate, and deliver an exceptional price/performance ratio.



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ID 2000030021

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