

FD920

3MP fixed dome, 3-9 mm motorized, H.265/H.264/MJPEG, SFP

DESCRIPTION

The FD920 is a 3MP HD fixed dome camera with built-in IR illumination providing clear images under any lighting condition. With its IP66 construction, IK10 vandal resistant housing and motorized lens, installation is fast and easy, and remote adjustment is simple.

FEATURES

1/2.8 Progressive scan CMOS imager

3.0 to 9.0 mm motorized varifocal lens

3MP @ 30 fps HDR

100Mb SFP slot

Lens Distortion Correction

H.265/H.264/MJPEG video compression

120 dB WDR (HDR)

Built-in IR illuminator (effective distance: 40 m)

Day/Night with IR-cut filter

IP66, IK10 vandal proof

ONVIF Profile S, G and Q



Description

The FD920 is a 3MP fixed dome IP-camera with built-in IR illumination and a flexible SFP interface.

Versatile SFP connection

Due to its 100Mb SFP slot the camera can be connected either direct to fiber or CAT5 Ethernet wiring or over the existing coax. For each solution Siqua can provide for a cost effective SFP module.

Multi-stream high definition

The camera has the capability to stream simultaneous 4 video streams in H.265, H.264 and MJPEG. Multiple combinations of encoding, resolution and frame rate can be configured to satisfy different live viewing and recording scenarios. Each selected resolution-frame rate combination can be freely set to a stream number.

Open standards

Multiple options are available to easily integrate the FD920 to a video management system. In support of open standards, the camera is compliant with the ONVIF Profile S, Profile G and Profile Q specification.

Image enhancement

The FD920 provides automatic day/night functionality with configurable thresholds, for use in low-light situations. Backlight compensation enhances image visibility in difficult lighting situations. The FD provides two modes for wide dynamic range. Single image WDR using nonlinear gain in a single image. The second, dual shutter WDR or HDR, which makes two different exposure settings to capture both darker and lighter areas with excellent details. The resulting image is a blend of the best parts of the two exposures. In addition, the FD920 offers headlight compensation (HLC) and back-light compensation (BLC).

Privacy masks

With the privacy masks feature you can cover sections of the image to ensure privacy.

Camera

Image sensor	FD920 1/2.8 Progressive scan CMOS; FD920(BHR) 1/3 Progressive scan CMOS
Effective pixels	FD920 2065x1553, 3Mp; FD920(BHR) 2720 (H) x 1536(V), 4Mp
Minimum scene illumination	FD920 0.04 lux color, 0.002 lux (b/w); FD920(BHR) 0.1 lux color, 0.01 lux (b/w)
Shutter speed	1 - 1/10,000 s
Lens	3.0 to 9.0 mm, F1.7
Lens type	Auto P-iris, motorized zoom
Horizontal field of view	110° (wide) to 38°(tele)
Focus	Push-to-focus

Functions

Privacy masks	8 colors, 5 masks
Text and picture overlay	Date, time, date & time, subtitle, image
Video motion detection	On / off / by schedule
Video motion detection alarm	Alarm output, record video clip, send alarm message, upload image
Network failure detection	On / off / by schedule
Network failure detection alarm	Alarm output, record video clip, send alarm message, upload image
Tamper detection	On / off / by schedule
Tamper detection alarm	Alarm output, record video clip, send alarm message, upload image
Behavior Analytics	Intrusion, Loitering Detection, Object Abandoned, Object Removal, Camera Sabotage, Wrong Direction, Object Counting

Image control

Wide dynamic range	
- gamma WDR	80 dB
- dual shutter WDR (HDR)	120 dB (default on limits frame rate to 30 fps)
Exposure	Auto, Manual
White balance	Auto, ATW, Manual, One push
Image settings	Contrast, Brightness, Saturation, Hue, Sharpness
Day/Night function	Auto, night, day
	Configurable day/night threshold levels, IR light compensation
Noise reduction	3DNR, 2DNR, Color
	Low, medium, high (w/ Motion Compensation)
Backlight compensation	On/Off
Digital zoom	10 x
Image rotation	0°, 90, 180, 270 rotation

Video

Specs



Video

Compression algorithm(s)	H.265, H.264 (main / high profile); MJPEG			
Number of compression instances	Any combination of H.265 or H.264 streams with possibly one MJPEG stream.			
Supported resolutions	22065x1553 (3MP); 1080p30, 1280x1024; 720p60; 1024x768; 800x600; 720x576 (D1); 640x480 (VGA); 352x288 (CIF)			
Max streaming (H264/H265/MJPEG) 60fps	1080 x 720	640x408		
30fps	2065x1553	800x600	352x240	
30fps	1920x1080	1920x1080	800x600	352x240
30fps	1920x1080	1280x720	1280x720	1024x768
Compression bit rate control	Constant bit rate (CBR), variable bit rate (VBR), Low bit rate (LBR)			
Number of video output streams	Up to 20 (RTSP)			
Total output data rate (max)	60 Mb/s			
Video frame rate	1 to 60 fps / 1 to 50 fps			
Analog video output	PAL/NTSC			
- Connector type	BNC (1.0 Vpp in 75)			

Audio

Two-way audio	Line in / line out
Compression	G.711 (μ-law, a-law) / G.726 / AAC / PCM
Connector type	Female phone jack, 3.5 mm (2x)

Alarm inputs/output

Input	2x 0 - 5 V, 10 k pull-up
Output	1x Photo relay output 300 Vdc/ac
Operational modes	Normally open; normally closed
Connector type	Terminal block

Storage

Storage options	Micro SD/SDHC/SDXC card (512 GB max); NAS
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Network

Interface(s)	100 Mb Ethernet SFP
Network protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, IGMP, IEEE 802.1x, QoS
Connector type	SFP slot

Management

Supported browsers	Internet Explorer 10+ (Chrome, Firefox, Edge: no OCX support)
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Specs



Management

Security	HTTPS, IP Filter, IEEE 802.1x
Protocols	UPnP, SNMP, ONVIF Profile S, G and Q
Password levels	User and Administrator
User accounts	20

Powering

Power	24 Vac / 12 Vdc
Power consumption	< 13.6 W
Connector type	2 pin terminal block

Environmental

Operating temperature	-55 C to +60 C (-67 F to +131F)
Relative humidity	5 to 100%

Mechanical

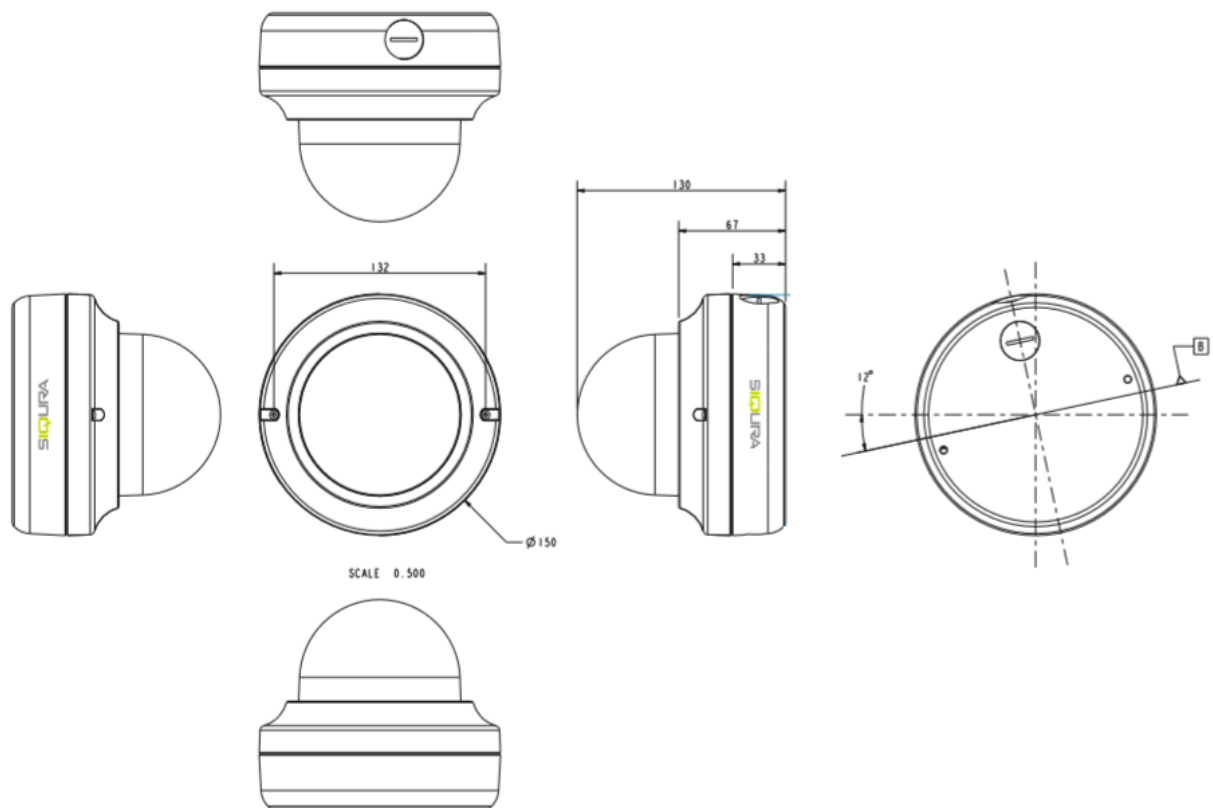
Dimensions (camera body)	diameter 150.5 x 125,5 mm (diameter 5.9 x 4.9 in)
Weight	0.82 kg (1.81 lbs)
Color	RAL 9003 (Signal white)
Built-in IR illuminator	
- Working distance	Up to 40 m
- Wavelength	850 nm
- Number of LEDs	8
Ingress protection	IP66
Impact rating	IK10

Ordering information

FD920	Fixed dome, 3MP, 3-9mm motorized, H.265/H.264, SFP, IR, IK10
FD920(BHR)	Fixed dome, 4MP, 3-9mm motorized, H.265/H.264, SFP, IR, IK10

Accessories

ECOplug	Ethernet over Coax SFP Module
XSNet SFP series	Small Form-Factor Pluggable
WM02/FD-SFP	Tube adapter/pendant mount for FD-SFP
WM01A	Wall mount bracket
CM01	Ceiling Mount, Straight Tube, 25cm
CM02	Ceiling Mount, Straight Tube, 50cm



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Siqura
3MP fixed dome, 3-9 mm motorized, H.265/H.264/MJPEG, SFP



Siqura SFP Module
SFP modules for Ethernet over fiber



TKHSecuritySolutions XSNet S4124 SW SFP (EOL)
24+4-Port Gigabit Ethernet Switches



Siqura XSNet 3300MC SFP
10/100/1000Base-TX to 100/1000Base FX SFP Media Converter