# SIQURA

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# 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

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 Siqura 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

| | |
|---|---|
| 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; |

# Specs

## Video

| | | | | |
|---|---|---|---|---|
| | 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 |

## 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) |
| 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 |

# Specs

| Powering | |
|---|---|
| Connector type | 2 pin terminal block |

| Environmental | |
|---|---|
| Operating temperature | -55 C to +55 C (-67 F to +131F) |
| Relative humidity | 10% to 90%, no condensation |

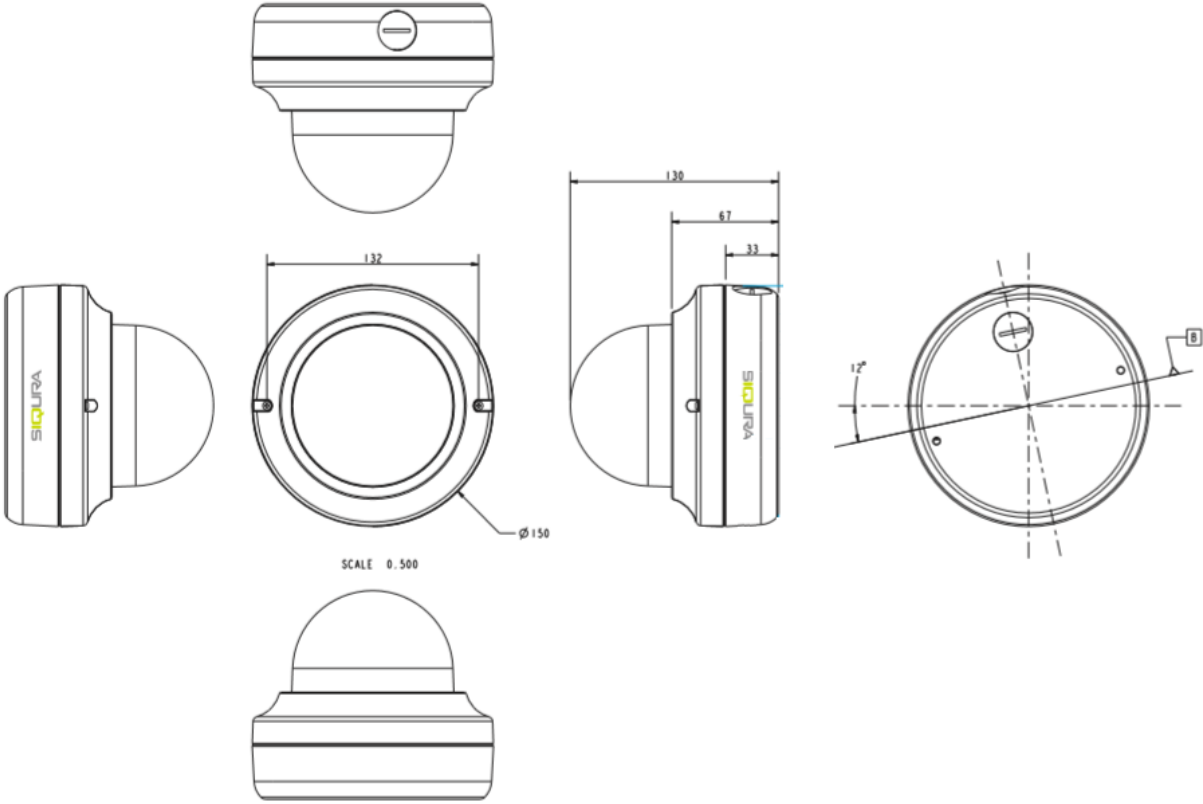| Mechanical | |
|---|---|
| Dimensions (camera body) | diameter 150.5 x 125,5 mm (diameter 5.9 x 4.9 in) |
| Weight | 0.82 kg (1.81 lbs) |
| Color | RAL 9003 (Signal white) |
| Built-in IR illuminator | |
| - Working distance | Up to 40 m |
| - Wavelength | 850 nm |
| - Number of LEDs | 8 |
| Ingress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

## PRODUCT DIMENSION IN MM

SCALE 0.500

Ø150

132

130

67

33

12°

## RELATED

**Siqura SFP Module**
SFP modules for Ethernet over fiber

**Siqura ECO-plug**
Ethernet over Coax 100Mb SFP Module