

IP / Professional IP cameras

# SF-IPB022HA-2EW

## Professional WiFi Camera

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### WiFi Series

Professional range of WiFi cameras, for those installations that require maximum ease of use without sacrificing reliability. Highly versatile, they combine the best of the Consumer environment, such as AUDIO and local storage, with the advantages of professional cameras, such as quality sensors, wide dynamic range (WDR), TRUESENSE human and vehicle filter or data saving through advanced H.265 + codec (\* depending on models)

- 2 Megapixels Resolution
- 1/2.7" High Performance CMOS Sensor
- 2.8 mm Fixed Lens
- H.265+ High Efficiency Video Codec
- Wi-Fi IEEE802.11 b/g/n
- Smart IR LED Up to 10m
- Built-in Mic



## Technical Specification

<b>Alarm Trigger</b>	Motion detection, network disconnected, IP address conflict, illegal login, HDD full, HDD error
<b>Image Sensor</b>	1/2.7" Progressive Scan CMOS
<b>Min. Illumination</b>	Color: 0.028 Lux @ (F2.0, AGC ON)
<b>Shutter Speed</b>	1/3 s to 1/100,000 s
<b>Slow Shutter</b>	Yes
<b>Angle Adjustment</b>	Pan: 0° to 360°, tilt: -90° to 90°, rotate: 0° to 90°
<b>WDR</b>	DWDR
<b>Day &amp; Night</b>	IR Cut Filter
<b>Aperture</b>	F2.0
<b>Focus</b>	Fixed
<b>FOV</b>	horizontal FOV: 114.5°, vertical FOV: 62°, diagonal FOV: 135.5°
<b>Lens Mount</b>	M12
<b>Focal length</b>	2.8/4 mm
<b>Network Storage</b>	Support micro SD/SDHC/SDXC card (max. 256 GB), local storage and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
<b>Alarm Trigger</b>	Motion detection, illegal login
<b>Protocols</b>	TCP/IP, ICMP, DHCP, DNS, DDNS, HTTP, RTP, RTSP, NTP, UPnP, IGMP, IPv6, UDP, QoS, Bonjour
<b>API</b>	ISAPI
<b>Simultaneous Live View</b>	Up to 6 channels
<b>User/Host</b>	Up to 32 users 3 levels: Administrator, Operator and User
<b>Client</b>	Wired network: Safire Connect, Safire Control Center Wi-Fi: Safire Control Center *Wi-Fi connection with Safire Connect directly is not possible.
<b>Web Browser</b>	Plug-in required live view: IE8, IE9, IE10, IE11 Local service: Chrome 57.0+, Firefox 52.0+
<b>General Function</b>	Anti-flicker, heartbeat, mirror, password protection, password reset via e-mail
<b>Firmware Version</b>	V5.5.101
<b>Environment Noise Filtering</b>	Yes
<b>Audio Sampling Rate</b>	8 kHz/16 kHz
<b>Reset Button</b>	Yes
<b>On-board storage</b>	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB
<b>Communication Interface</b>	1 RJ45 10M/100M self-adaptive Ethernet port
<b>Audio</b>	1 Built-in mic, mono sound

<b>Max. Resolution</b>	1920 × 1080
<b>Main Stream</b>	50Hz: 25 fps (1920 × 1080, 1280 × 720) 60Hz: 30 fps (1920 × 1080, 1280 × 720)
<b>Sub-Stream</b>	50Hz: 25 fps (640 × 360) 60Hz: 30 fps (640 × 360)
<b>Image Enhancement</b>	BLC, HLC, 3D DNR
<b>Day/Night Switch</b>	Day, night, auto, scheduled
<b>Image Settings</b>	Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser
<b>Operating Conditions</b>	-30 °C to +60 °C (-22°F to +140 °F), humidity 95% or less (non-condensing)
<b>Power supply</b>	12 VDC ± 25%, Ø5.5 mm coaxial power plug
<b>Power Consumption and Current</b>	12 VDC, 0.4 A, max. 5 W
<b>Material</b>	Front cover: metal, back cover: plastic
<b>Dimensions</b>	Camera: 177.6 mm × 67.8 mm × 66.2 mm (7" × 2.7" × 2.6") With package: 264 mm × 129 mm × 120 mm (10.4" × 5.1" × 4.7")
	Camera: approx. 270 g (0.6 lb.) With package: approx. 470 g (1 lb.)
<b>Protection</b>	Ingress protection: IP66 (IEC 60529-2013)
<b>Video Compression</b>	Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264
<b>H.264+</b>	Main stream supports
<b>H.265+</b>	Main stream supports
<b>H.264 Type</b>	Baseline Profile/Main Profile
<b>H.265 Type</b>	Baseline Profile
<b>Video Bit Rate</b>	32 Kbps to 8 Mbps
<b>Audio Compression</b>	G.711/G.722.1/G.726/MP2L2/PCM
<b>Audio Bit Rate</b>	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32 to 160Kbps(MP2L2)
<b>IR Range</b>	Up to 30 m
<b>Wavelength</b>	850 nm
<b>Wireless Standards</b>	IEEE 802.11b/g/n
<b>Frequency Range</b>	2.4 GHz to 2.4835 GHz
<b>Transfer Rates</b>	11b: 11 Mbps 11g: 54 Mbps 11n: up to 150 Mbps
<b>Security</b>	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS
<b>Channel Bandwidth</b>	20 MHz/40 MHz
<b>Wireless Range</b>	Up to 80 m (The performance varies based on actual environment.)
<b>Protocols</b>	802.11b: CCK, DQPSK, DBPSK 802.11g/n: 64-QAM, 16-QAM, QPSK, BPSK