

IPFX-S20F-W1

2MP Covert Pinhole Network Camera



- 1/2.8" 2 Megapixel progressive scan STARVIS™ CMOS
- H.265 & H.264 triple-stream encoding
- 50/60fps@1080P(1920×1080)
- 2.8mm Fixed Pinhole Lens
- Day/Night(Electronic), WDR, 3DNR, AWB, AGC, BLC
- IVS Support (Tripwire, Intrusion, Face Detect)
- Micros SD Support (128GB), PoE

System Overview

IC Realtime's IPFX-S20F-W1 is a covert camera with a 2.8mm fixed pinhole lens. It is capable of up to 60fps in 1080P resolution with H.265 support. The camera also features IVS with Tripwire, Intrusion and Face Detection as well as PoE and Micro SD support up to 128GB.

With an 8 meter cable length and modular design, it can be easily installed into any indoor environment, which makes this camera ideal for the ATMs(Automatic Teller Machines), banks, stores, hotels and offices.

Functions

Wide Dynamic Range(WDR)

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Protection

Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Technical Specification

Camera

Image Sensor	1/2.8" 2 Megapixel progressive scan CMOS
Effective Pixels	1920(H)x1080(V)
RAM/ROM	512MB/32MB
Scanning System	Progressive
Minimum Illumination	0.02Lux/F2.4 (Color,1/3s,30IRE) 0.08Lux/F2.4 (Color,1/30s,30IRE) 0.01Lux/F2.4 (B/W,1/3s,30IRE) 0.04Lux/F2.4 (B/W,1/30s,30IRE)
S/N Ratio	More than 50dB
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	0

Lens

Lens Type	Fixed								
Mount Type	Board-in								
Focal Length	2.8mm								
Max. Aperture	F2.4								
Angle of View	H:104° ,V:59°								
Optical Zoom	N/A								
Focus Control	Fixed								
Close Focus Distance	N/A								
DORI Distance	<table border="1"> <thead> <tr> <th>Detect</th> <th>Observe</th> <th>Recognize</th> <th>Identify</th> </tr> </thead> <tbody> <tr> <td>126ft</td> <td>50ft</td> <td>25ft</td> <td>12ft</td> </tr> </tbody> </table>	Detect	Observe	Recognize	Identify	126ft	50ft	25ft	12ft
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126ft	50ft	25ft	12ft						

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	N/A
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Intelligence

IVS	Tripwire, Intrusion, Object Abandoned/Missing
Advanced Intelligent Functions	Face Detection

Video

Compression	H.265+/H.265/H.264+/H.264
Streaming Capability	3 Streams
Resolution	1080P(1920x1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576/704x480)/ VGA(640x480)/ CIF(352x288/342x240)
Frame Rate	Main Stream: 1080P(1~50/60fps) Sub Stream: D1 (1 ~ 25/30fps) Third Stream: 1080P(1~25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 24Kbps~ 9472Kbps H.265: 14Kbps~ 5632Kbps
Day/Night	Electronic
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto / Manual
Noise Reduction	3D DNR

Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	N/A
Defog	N/A
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	G.711a/ G.711Mu/ AAC/ G.726
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Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;HTTps;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;SNMP
Interoperability	ONVIF, PSIA, CGI
Max. User Access	10 Users/20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	SmartICRSS, DSS
Smart Phone	IOS, Android

Certifications

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
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Interface

Audio Interface	1/1 channel In/Out
RS232	1 Port
Alarm	2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC

Electrical

Power Supply	DC12V, PoE(802.3af)(Class 0)
Power Consumption	<6W

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	N/A
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Body: 110.0mmx82.7mmx24.0mm(4.33"x3.26"x0.95") Lens: 30.5mmx48.65mm(1.20"x1.91")
Net Weight	Body: 0.21Kg (0.46lb) Lens: 0.40Kg (0.88lb)
Gross Weight	Body: 0.30Kg (0.66lb) Lens: 0.47Kg (1.03lb)

Dimensions (mm/in)

