

Spectrum F110-XXCH5ABX-BD

2MP | 4MP | 5MP | 6MP | 8MP (4K Ultra HD)

Key Features

- **Next-Generation Video Analytics**
- H.265 Technology
- Wide Dynamic Range
- Focus of attention
- Low-light Technology
- **ONVIF®** Compliant
- Front Glass Protective Film (F1XX-TO) included
- Reliable Securing Kit included
- Made in USA
- NDAA-Compliant
- cFMus, Class I/II/III, Division 1, Zone 1/21, IECEx, ATEX, INMETRO, UKCA and PESO approved
- Operating Temperature:

Zone System: -50°C to +60°C

(USA) Class/Division System: -40°C to +60°C









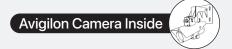




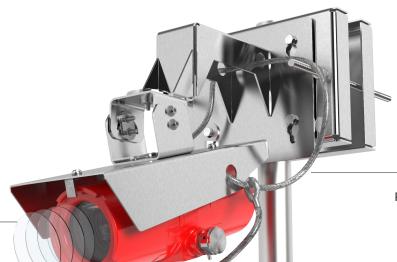








Part Number	MP	WDR	Low-light Technology	Lens	Analytics	H.265 Technology	Avigilon Camera
F110-2.0CH5AB1-BD	2.0	Included	Included	4.7 - 84.6 mm	Included	Included	2.0C-H5A-B1
F110-2.0CH5AB2-BD	2.0	Included	Included	3.3 - 9 mm	Included	Included	2.0C-H5A-B2
F110-2.0CH5AB3-BD	2.0	Included	Included	9 - 22 mm	Included	Included	2.0C-H5A-B3
F110-4.0CH5AB2-BD	4.0	Included	Included	3.3 - 9 mm	Included	Included	4.0C-H5A-B2
F110-4.0CH5AB3-BD	4.0	Included	Included	9 - 22 mm	Included	Included	4.0C-H5A-B3
F110-6.0CH5AB2-BD	6.0	Included	Included	4.9 - 8 mm	Included	Included	6.0C-H5A-B2
F110-8.0CH5AB2-BD	8.0	Included	Included	4.9 - 8 mm	Included	Included	8.0C-H5A-B2



SF-RSK Reliable Securing Kit

F1XX-TO

Front Glass Protective Film 4-Layer peel off design

Specifications

		9	Spectrum F110-XX0	CH5ABX-BD				
Lens								
		3.3 - 9 mm	4.9 - 8 mm	9 - 22 mm	4.7 - 84.6 mm			
Minimum Illumination	2 MP	TBD	N/A	TBD	TBD			
	4 MP	TBD	N/A	TBD	N/A			
	5 MP	N/A	N/A	TBD	N/A			
	6 MP	N/A	TBD	N/A	N/A			
	8 MP	N/A	TBD	N/A	N/A			
	2 MP	(16:9) 34° - 99°	N/A	(16:9) 14° - 31°	(16:9) 4.1° - 60°			
Horizontal Angle of View Based on Aspect Ratio	4 MP	(16:9)(4:3) 34° - 92°	N/A	(16:9)(4:3) 14° - 31°	N/A			
	5 MP	N/A	N/A	(16:9)(4:3) 14° - 31°	N/A			
	6 MP	N/A	(16:9) 52° - 92° (3:2) 41° - 73°	N/A	N/A			
	8 MP	N/A	(16:9) 29° - 51°	N/A	N/A			
	2 MP	(16:9) 18° - 53°	N/A	(16:9) 7.8° - 16.7°	(16:9) 2.3° - 34°			
/ertical Angle	4 MP	(16:9) 18° - 50° (4:3) 25° - 68°	N/A	(16:9) 8.2° - 17.4°	N/A			
of View Based on Aspect	5 MP	N/A	N/A	(16:9) 8.1° - 17.4° (4:3) 11° - 23°	N/A			
Ratio	6 MP	N/A	(16:9) 29° - 51° (3:2) 27° - 48°	N/A	N/A			
	8 MP	N/A	(16:9) 29° - 51°	N/A	N/A			
/lax Aperture		F1.3	F1.8	F1.6	F1.6			
Control		P-Iris, Remote Focus and Zoo	om					
mage Contr	ol							
mage Compres Method	ssion	H.264, H.265, Motion JPEG						
Streaming		Multi-stream H.264, Multi-stream H.265, Motion JPEG; 2.0 on 4.0 MP, 5.0 MP, 6.0 MP, and 4k (8.0 MP) cameras						
Motion Detecti	on	Pixel motion: selectable sens	itivity and threshold. Classified o	bject detection				
Camera Tampe Detection	er	Yes						
Electronic Shut Control	tter	Automatic, Manual (1/7 to 1/8	196 sec)					
Iris Control		Automatic, Open, Closed						
Day/Night Control Automatic, Manual		Automatic, Manual						
Flicker Control		60 Hz, 50 Hz						
Vhite Balance		Automatic, Manual						
Backlight Compensation		Adjustable						
Privacy Zones		Up to 64 zones						
Auxiliary I/O								
Audio Compres Method	ssion	G.711 PCM 8 kHz						
Audio Input/Ou	tput	Line level input and output						
external I/O Ter	rminals	Alarm In, Alarm Out						
S-485 Termin	nal	Yes, Box camera only						
Network								
letwork		100BASE-TX , RJ45 Connector, CAT5e Cabling						
ONVIF ONVIF compliance version 1.02, 2		02, 2.00, Profile S, Profile T (www	2.00, Profile S, Profile T (www.onvif.org)					
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based au		302.1x port based authentication					
Protocols II		IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf. ARP						
Streaming Prot	ocols	RTP/UDP, RTP/UDP multicast	RTP/RTSP/TCP, RTP/RTSP/HTTP	/TCP, RTP/RTSP/HTTPS/TCP, HTTP				
Device Management Protocols		SNMP v2c, SNMP v3						
Peripherals								
USB Port		USB 2.0						
Onboard Storage		SD/SDHC/SDXC slot - class 10/UHS-1 or better recommended						

Specifications

General				
Casing	Aluminum			
Weight	6.4 kg (14 lb)			
Dimensions	13.85 x 7.20 x 6.01 in (352 x 183 x 153 mm)			
Power	57 VDC, 7 W;			
Heater	12 - 24 VDC/VAC, 25W			
Storage	-10°C to +70°C (14°F to 158°F)			
Operating Conditions	Zone system: -50°C to +60°C (USA) Class/Division system: -40°C to +60°C Humidity 10-100% RH (condensing)			
Approvals	Hazardous Area FM3600, FM3615, ANSI/ISA/EN/IEC/CAN/CSA-C22.2 60079-0, ANSI/UL/EN/IEC/CAN/CSA-C22.2 60079-1, ANSI/UL/IEN/EC/CAN/CSA-C22.2 60079-31 EMC EN 55032 Class A, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN32 Class A, KC KN35			
	Safety IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, IS 13252 Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA TS 2 (2.2.7-2.2.9) Network NIST SP500-267			
Explosion-proof	USA: Class I Division 1 Groups BCD T6 Ta= -40°C to +60°C. Type 4X IP66 Class II/III Division 1 Groups FFG Ta= -40°C to +60°C. Type 4X IP66			

certification

Object Types in indoor

Mode

Class I Division 1 Groups BCD T6 Ta= -40°C to +60°C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -40°C to +60°C, Type 4X, IP66

Certificate: FM18US0262X

Class I Division 1 Groups BCD T6 Ta= -50°C to +60°C, Type 4X, IP66 Class II/III Division 1 Groups EFG Ta= -50°C to +60°C, Type 4X, IP66 Class I, Zone 1, AEx/Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, Type 4X, IP66 Zone 21, AEx/Ex tb IIIC T85°C Db Ta = -50°C to +60°C, Type

4X, IP66

Certificate: FM18CA0126X

ATEX:

II 2 G Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 II 2 D Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66

Certificate: FM18ATEX0073X

IECEx:

Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66

Certificate: IECEx FMG 18.0029X

INMETRO:

Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66

Certificate: NCC 20.0084 X

Person

Ex db IIB+H2 T5 Gb Ta = -50°C to +60°C, IP66 Ex tb IIIC T85°C Db Ta = -50°C to +60°C, IP66

Certificate: IECEx FMG 18.0029X

Approval No: A/P/HQ/MH/104/7899 (P578984)

Supported Analytics Events				
Objects in Area	The event is triggered when the selected object type moves into the region of interest.			
Objects Loitering	The event is triggered when the selected object type moves into the region of interest and then stays for an extended amount of time.			
Objects Crossing Beam	The event is triggered when the specified number of objects have crossed the directional beam that is configured over the camera's field of view. The beam can be unidirectional or bidirectional.			
Object Appears or Enters Area	The event is triggered by each object that enters the region of interest. This event can be used to count objects.			
Objects not present in Area	The event is triggered when no objects are present in the region of interest.			
Objects Enter Area	The event is triggered when the specified number of objects have entered the region of interest.			
Objects Leave Area	The event is triggered when the specified number of objects have left the region of interest.			
Object Stops in Area	The event is triggered when an object moves into a prohibited area of travel.			
Direction Violated	The event is triggered when an object moves into the prohibited direction of travel.			
Tamper Detection	The event is triggered when the scene unexpectedly changes.			
Supported Classified Object Types				
Object Types in Outdoor Mode	Vehicle, sub-types: Car, Truck, Bicycle, Motorcycle, Bus, Person			

Approvals & Dimensions





