

# Spectrum D210-A-2.0CH5APTZDP36-BD

Explosion-Proof 2MP PTZ dome Camera

#### **Key Features**

- 2MP
- 36x Zoom
- Built-in analytics
- Reliable Securing Kit included
- Made in USA
- NDAA-Compliant
- cFMus, Class I/II/III, Division 1, Zone 1/21, IECEx, ATEX, INMETRO, and UKCA approved.
- Operating Temperature: -20°C to +55°C



### Description

WARRANTY

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Spectrum D201-A-2.0CH5APTZDP36-BD explosion-proof ptz camera provides wide area coverage, high speed tracking and long range detail, empowering security operators with 360° views to monitor large areas with ease, including greater zooming capabilites for evidentiary detail. This powerful camera delivers high-quality, detailed images with up to 36x zoom, which is ideal for critical infrastructure and safety. Enclosed in a patented red aluminum explosion-proof housing, it's certified (cFMus, ATEX, IECEx, INMETRO, and UKCA approved) for use in potentially combustible environments.

Part Number	MP	WDR	Low-light Technology	Lens	Analytics	H.265 Technology	Avigilon Technology
D210-2.0CH5APTZDP36-BD	2MP	Included	Included	4.3 mm to 129 mm	Included	Included	2.0C-H5A-PTZ36

## Specifications

### Spectrum D201-A-2.0CH5APTZDP36-BD

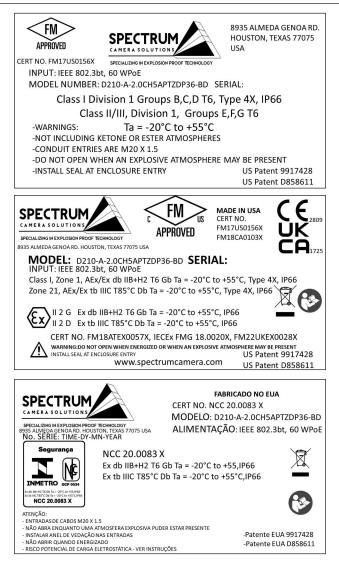
#### Image Performance

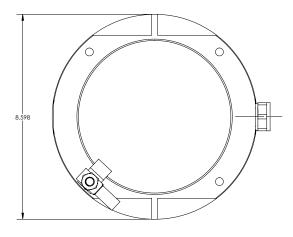
Image Performance	
Image Sensor	1/2.8" progressive scan CMOS
Active Pixels	1980 (H) × 1080 (V)
Imaging Area	4.8 mm × 2.7 mm; 0.189" × 0.106"
Minimum Illumination	0.1 lux (F/1.6) in color mode; 0.03 lux (F/1.6) in monochrome
Dynamic Range	120+ dB
Image Rate	Up to 60 fps
Aspect Ratio (Resolution scaling)	Down to (16:9) 384×216 or (5:4) 320×256
3D Noise Reduction Filter	Yes
Lens	
Lens	4.3mm to 129mm, F/1.6 - F/4.7, autofocus
Angle of view	63.7° - 1.9°
Zoom	36x (with image stabilization off), 30x(with image stabilization on)
Image Control	
Video Compression	H.264 HDSM SmartCodec, H.265 HDSM SmartCodec, Motion JPEG
Streaming	Multi-stream H.264, Multi-stream H.265, Motion JPEG
Motion Detection	Pixel motion: Selectable sensitivity and threshold. Classified object detection
Electronic Shutter Control	Automatic, Manual (1/1 to 1/10,000 sec)
Iris Control	Automatic, Open, Closed
Day/Night Control	Automatic, Manual
Flicker Control	60 Hz, 50 Hz
White Balance	Automatic, Manual
Backlight Compensation	On/Off
Privacy Zones	3D, up to 64 zones
Presets	500 named presets
Tours	10 named tours
Audio Compression Method	G.711
Digital Zoom	Up to 100x
Electronic Image Stabilization	Yes
Digital Defog	Adjustable/Off
Network	
Network	100BASE-TX
Cabling Type	CAT5e
Connector	RJ-45
ONVIF	ONVIF compliance version 1.02, 2.00, Profile S, Profile T, Profile G (www.onfiv.org)
Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication, FIPS 140-2 L1
Protocol	IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP
Streaming Protocols	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	
Audio Input/Output	Line level input and output
External I/O Terminals	2 Alarm in, 2 Alarm out

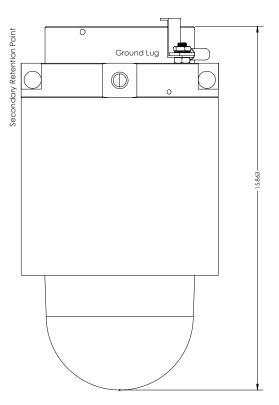
CH5AP1ZDP36-	
Onboard storage	2 × microSD/microSDHC/microSDXC slot – minimum class 6; class 10/UHS-1 or better recommended. Currently one of the two SD card slots is available for onboard storage.
Suppported Video Analyti	cs
Objects in Area	The event is triggered when the selected object type moves into the region of interest.
Objects Loitering	The event is triggered when the selected object type stays within the region of interest 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.
Object 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 in a region of interest stops moving for the specified threshold time.
Direction Violated	The event is triggered when an object moves in the prohibited direction of travel.
Tamper Detection	The event is triggered when the scene unexpectedly changes.
Supported Classified Obje	ect types
Object Types in Outdoor Mode	Vehicle, sub-types: Car, Truck, Bicycle, Motorcycle, Bus Person
Object Types in Indoor Mode	Person
General	
Casing (x)	A = Aluminum
Weight	A = 32 lbs (14 kg)
Dimensions	Height: 15.9 in (404 mm) ø 8.6 in (218 mm)
Power	IEEE 802.3bt, 60 WPoE
Storage Conditions	-10 °C to +70 °C (14 °F to 158 °F) Humidity 0-95%, non-condensing
Operating Conditions	-20°C to +55°C
Warranty	3-year limited warranty, see spectrumcamera. com/warranty for more information
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, 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 60068-2-14, IEC 60068-2-27, 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 (Divisions):
Certifications	Class I Division 1 Groups B,C,D T6, type 4X, IP66/67
	Class II/III, Division 1, Groups E,F,G T6
	Ta = -20°C to +55°C
	Certificate: FM17US0156X
	USA and Canada (Zones):
	Class I, Zone 1, AEx/Ex db IIB+H2 T6 Gb Ta
	-20°C to +55°C, Type 4X, IP66/67
	Zone 21, AEx/Ex tb IIIC T85 °C Db Ta = $-20$ °C to $+55$ °C, Type 4X, IP66/67
	Certificate: FM17US0156X and FM18CA0103X ATEX:
	II 2 G Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67
	II 2 D Ex tb IIIC T85 °C Db Ta = $-20$ °C to $+55$ °C,
	IP66/67
	Certificate: FM18ATEX0057X
	IECEx:
	Ex db IIB+H2 T6 Gb Ta = -20°C to +55°C, IP66/67
	Ex tb IIIC T85 °C Db Ta = -20°C to +55°C, IP66/67
	Certificate: FMG 18.0020X
	INMETRO:
	Ex db IIB+H2 T6 Gb Ta = $-20^{\circ}$ C to $+55^{\circ}$ C,
	IP66/67
	Ex tb IIIC Db T85 °C Ta = -20°C to +55°C, IP66/67
	Certificate number: NCC 20.0083 X

## **Approvals & Dimensions**







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