

AXIS D2110-VE Security Radar

Reliable area protection with 180° coverage 24/7

AXIS D2110-VE Security Radar is a smart network-based security device that uses advanced radar technology to deliver wide 180° coverage. Thanks to built-in analytics developed using machine learning and deep learning, it can accurately detect, classify and track people and vehicles with a low false alarm rate. Featuring PoE-out it's easy to connect and power an additional device, such as a camera for visual verification or a network horn speaker for deterrence. Furthermore, smart coexistence functionality allows the use of multiple radars close to each other. For instance, it's possible to mount two radars back-to-back for complete 360° coverage.

- > Extensive 180° area coverage
- > Built-in analytics
- > Low false alarm rate 24/7
- > Smart coexistence functionality
- > PoE-out to power additional devices





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Radar			Support for AXIS Camera Application Platform enabling
Sensor	Phased array FMCW (Frequency Modulated Continuous Wave)		installation of third-party applications, see axis.com/acap
Object data	Range, direction, velocity, object type	Event conditions	Analytics, object data, supervised external input, edge storage events, time scheduled Radar data failure Casing open, shock detected File upload: FTP, SFTP, HTTP, HTTPS, network share and email
Frequency	24.05–24.25 GHz		
RF transmit power	<100 mW (EIRP) License free. Unharmful radio-waves.	Event actions	
Recommended mounting height	3.5 m (11 ft) ^a	Event actions	Notification: email, HTTP, HTTPS and TCP External output activation, relay activation Video recording to edge storage Pre- and post-alarm video buffering Overlay text
Detection range	3-60 m (10-200 ft) when detecting a person 3-85 m (10-280 ft) when detecting a vehicle		
Radial speed	Up to 55 km/h (34 mph)		Status LED activation Send SNMP trap
Field of detection		Data streaming	Event data
Distance accuracy	0.7 m (2.3 ft)	Built-in	Analytics data with object GPS ^d position and velocity Reference map calibration, sensor for tilt angle, GPS position ^d
Angle accuracy	1°	installation aids	nerence map canoration, sensor for the angle, of 5 position
Spatial	3 m ^b	General	
differentiation	10.11	Casing	IP66-, NEMA 4X- and IK08-rated
Data refresh rate Coverage	10 Hz 5600 m ² (61000 sq ft) for persons		Aluminum and plastic casing Color: White NCS S 1002-B
	11300 m ² (122000 sq ft) for vehicles	Sustainability	PVC free
Object classification	Humans, vehicles, unknown	Power	Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4, typical 11 W, max 15 W Power over Ethernet (PoE) IEEE 802.3bt, Type 3 Class 5 or Axis Midspan 60 W required for PoE Out 8–28 V DC, typical 10 W, max 15 W DC input RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE output to power
Radar controls	Multiple detection zones, crossline detections, and exclude zones with filters for short-lived objects, object speed, and object type. Radar transmission on/off, coexistence, reference map with		
	rotation and cropping, grid opacity, zone opacity, color scheme, trail lifetime, detection sensitivity, swaying object filter	Connectors	
System on chip (SoC)			an external PoE device
Model	ARTPEC-7		Relay: 2-pin terminal block
Memory	1024 MB RAM, 512 MB Flash		I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs
Video Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile	Relays	1x 1 form A, 1 NO, max 5A, 24 V DC Expected lifetime 25,000 operations
Compression	Motion JPEG	Storage	Support for microSD/microSDHC/microSDXC card
Resolution	1920x1080 HDTV 1080p to 640x360		Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS)
Frame rate	Up to 10 fps in all resolutions		For SD card and NAS recommendations see axis.com
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)
		Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Image settings	Compression, rotation: 0°, 90°, 180°, 270° including corridor format, dynamic text and image overlay	Approvals	Radio
Audio	Audio putant dis adre to adre tophasland		EN 300440, EN 301489-1, EN 301489-51, EN 62311, FCC Part 15 Subpart C EMC
Audio streaming	Audio output via edge-to-edge technology		EN 55032 Class A, EN 55024, EN 61000-6-1, EN 61000-6-2,
input/output	Network speaker pairing		EN 61000-6-4, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), KC KN32 Class A,
Network	D. H. Ch. HTTPSC		RCM AS/NZS CISPR 32 Class A, VCCI Class B, EAC
Security	Password protection, IP address filtering, HTTPS ^c encryption, IEEE 802.1X (EAP-TLS) ^c network access control, digest authentication, user access log, centralized certificate		Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 Environment
Supported	management, brute force delay protection, signed firmware IPv4/v6, HTTP, HTTP/2, HTTPS ^c , SSL/TLS ^c , QoS Layer 3 DiffServ,		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, IEC/EN 62262 IK08, NEMA 250 Type 4X
protocols	FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SOCKS, SSH, LLDP, MQIT v3.1.1,	Dimensions	285 x 206 x 152 mm (11.2 x 8.1 x 6.0 in)
		Weight	2.4 kg (5.3 lb)
System integra	Syslog	Included	Installation guide, connector kit, pipe adapters, cable gland,
System integration Application Open API for software integration, including VAPIX® and		accessories	cable gaskets, Windows® decoder 1-user license
Programming	AXIS Camera Application Platform; specifications at axis.com	Optional accessories	AXIS T91R61 Wall Mount AXIS T91B47 Pole Mount
Interface	ONVIF® Profile G and ONVIF® Profile S, specification at onvif.org		AXIS T94R01B Corner Bracket
Analytics	Radar Motion Detection (detect, track, and classify objects), Radar autotracking		AXIS T8415 Wireless Installation Tool For more accessories, see <i>axis.com</i>

T10129634/EN/M14.2/2107 www.axis.com

Supporting software	AXIS Radar Autotracking for PTZ (Slew to Cue) For supported cameras, see axis.com/products/axis-radar-autotracking
Video management software	AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Warranty	5-year warranty, see axis.com/warranty

a. Mounting at another height affects the detection range. For more information, go to axis.com
b. Minimum distance between moving objects.
c. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).
d. Enter the radar's GPS position manually to get the objects' GPS position in the data stream.

Environmental responsibility:

axis.com/environmental-responsibility

