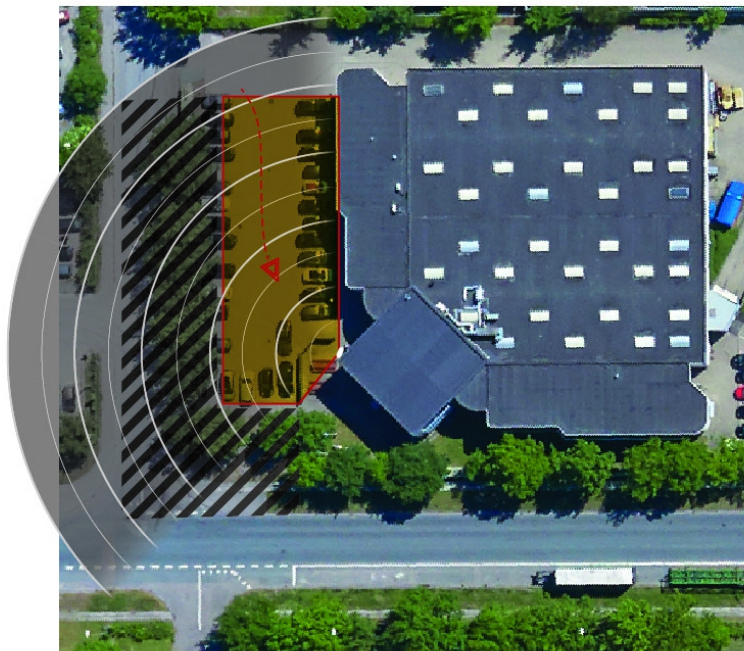


AXIS D2050-VE Network Radar Detector

Accurate breach detection

AXIS D2050-VE Network Radar Detector is a reliable and accurate radar which detects approaching trespassers on your premises and provides accurate incident notifications in all weather conditions around the clock. With 120 degrees horizontal detection coverage and up to 50 meter/164 feet range, AXIS D2050-VE delivers exact position, angle of movement, and velocity of a moving object. Vandal protected and robust in outdoor environments, AXIS D2050-VE minimizes false alarms triggered by rain, snow, insects, or shadows. AXIS D2050-VE serves as a complement to video surveillance and enables filtering on distance, customizable detection zones, and AXIS Radar Autotracking for PTZ cameras.

- > **Accurate incident notifications at night and in all weather conditions**
- > **Ability to filter on distance**
- > **120 degrees horizontal detection and up to 50 meter/164 feet range**
- > **Compatible with major VMS suppliers**
- > **Power over Ethernet Plus (PoE+)**



AXIS D2050-VE Network Radar Detector

Radar		Event actions	File upload: FTP, SFTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP External output activation, relay activation Video recording to edge storage Pre- and post-alarm video buffering Overlay text Status LED activation Send SNMP trap
Sensor	Phased array FMCW (Frequency Modulated Continuous Wave)	Data streaming	Event data Analytics data with object GPS ^e position and velocity
Object data	Range, direction, velocity, object type	Built-in installation aids	Reference map calibration
Frequency	24.05–24.25 GHz (channels 1 and 2)	General	
RF transmit power	<100 mW (EIRP) License free. Unharmful radio-waves.	Casing	IP66-, NEMA 4X- and IK08-rated Aluminum and plastic casing Color: White NCS S 1002-B
Recommended mounting height	3.5 m (11 ft) ^a	Sustainability	PVC free
Detection range	Min: 4.5 m (15 ft) ^b Max: up to 50 m (164 ft) ^b	Power	Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4, typical 9 W, max 15 W
Radial speed	Up to 35 km/h (22 mph)	Radar angle adjustment	Horizontal positions: 0° (default), -25°, +25° ^f
Field of detection	Horizontal: 120°	Connectors	RJ45 10BASE-T/100BASE-TX PoE Relay: 2-pin terminal block I/O: 6-pin 2.5 mm terminal block for four configurable inputs/outputs
Speed accuracy	+/- 2 km/h (1.25 mph)	Relays	1x 1 form A, 1 NO, max 5A, 24 V DC Expected lifetime 25,000 operations
Distance accuracy	0.9 m (3 ft)	Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com
Angle accuracy	± 0.5°	Operating conditions	-40 °C to 60 °C (-40 °F to 140 °F) Humidity 10–100% RH (condensing)
Spatial differentiation	2.5 m ^c	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F)
Data refresh rate	10 Hz	Approvals	Radar EN 300440 EMC EN 55032 Class A, EN 301489-1, EN 301489-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC 47 CFR PT 15.249 and RSS-310 issue 4, FCC 47CFR 15B Class A, ICES-003 Class A Safety IEC/EN/UL 62368-1, IEC/EN/UL 60950-22 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, IEC/EN 62262 IK08, NEMA 250 Type 4X
Coverage	2500 m ² (27000 sq ft)	Dimensions	285 x 206 x 152 mm (11.2 x 8.1 x 6.0 in)
Object classification	Small object, human, vehicle	Weight	2.5 kg (5.5 lb)
Radar controls	Filter, multiple detection areas, reference map, grid opacity, color scheme, trail lifetime, detection sensitivity	Included accessories	Installation guide, connector kit, pipe adapters, cable gland, cable gaskets, Windows [®] decoder 1-user license
System on chip (SoC)		Optional accessories	AXIS T91R61 Wall Mount AXIS T91B47 Pole Mount AXIS T94R01B Corner Bracket AXIS T8415 Wireless Installation Tool For more accessories, see axis.com
Model	ARTPEC-6	Supporting software	AXIS Radar Autotracking for PTZ (Slew to Cue) For supported cameras, see axis.com/products/axis-radar-autotracking
Memory	1024 MB RAM, 512 MB Flash	Video management software	AXIS Camera Station, video management software from Axis Application Development Partners available at axis.com/vms
Video		Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG	Warranty	5-year warranty, see axis.com/warranty
Resolution	1920x1080 HDTV 1080p to 640x360		
Frame rate	Up to 30 fps in all resolutions		
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Controllable frame rate and bandwidth VBR/ABR/MBR H.264		
Image settings	Compression, rotation: 0°, 90°, 180°, 270° including corridor format, dynamic text and image overlay		
Audio			
Audio streaming	Audio output via edge-to-edge technology		
Audio input/output	Network speaker pairing		
Network			
Security	Password protection, IP address filtering, HTTPS ^d encryption, IEEE 802.1X (EAP-TLS) ^d network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware		
Network protocols	IPv4/v6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^d , TLS ^d , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)		
System integration			
Application Programming Interface	Open API for software integration, including VAPIX [®] and AXIS Camera Application Platform; specifications at axis.com ONVIF [®] Profile G and ONVIF [®] Profile S, specification at onvif.org		
Analytics	Radar Motion Detection, Autotracking, Crossline, Speed filter Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap		
Event conditions	Analytics, object data, external input, edge storage events, time scheduled Radar motion detection Casing open		

- a. Mounting at another height affects the detection range. For more information, go to axis.com
b. Measured at 3.5 m (11 ft) mounting height, when detecting a person.

- c. Minimum distance between moving objects.
- d. 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).
- e. Enter the radar's GPS position manually to get the objects' GPS position in the data stream.

f. Internal radar module

Environmental responsibility:

[axis.com/environmental-responsibility](https://www.axis.com/environmental-responsibility)