AXIS P8815-2 3D People Counter

Complete, sophisticated 3D people counter

Combining 3D imaging software and hardware in one device, this device counts people in both directions simultaneously and can also estimate occupancy levels in real-time. It can also detect tailgating and direction and notify you if more than one person enters within a set time interval, or if people move in the wrong direction. The device generates a 3D depth map for reliable counting even in challenging conditions. Data from the counter helps you evaluate site performance and analyze visitor trends, allowing you to make informed decisions to optimize operational efficiency. For wide area coverage, it's easy to connect two counters.

- > 3D people counting
- > Integrated software and hardware
- > Optimized for challenging conditions
- > Estimate occupancy levels
- > Gain insights into visitor trends

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Application

Functionality	Bi-directional counting. Estimating occupancy. Detecting tailgating. Detecting wrong-way passages. Flexible counting area (for example for revolving doors). Supports wide entrances by using two counters. Video stream anonymization. Excludes objects below ~110 cm (43 in) Configurable events based on occupancy and number of passages. Automatic upload of counting data to separately sold AXIS Store Reporter. Upload to third-party software through API. Counting data stored up to 90 days.
Configuration	Web configuration interface included
Compute platform	Edge

Scenarios

Typical applications	Entrances and exits in retail environments such as stores and shopping malls as well as public buildings such as museums or libraries.
Mounting height	250 cm to 600 cm (98 in to 236 in)
Counting-area coverage	Maximum size of counting area when mounted at: 250 cm (98 in): 199 x 46 cm (78 x 18 in) 300 cm (118 in): 306 x 100 cm (120 x 39 in) 400 cm (157 in): 400 x 208 cm (157 x 82 in) 500 cm (197 in): 400 x 225 cm (157 x 89 in) 600 cm (236 in): 400 x 225 cm (157 x 89 in)

Camera

Image sensor	1/2.9" progressive scan RGB CMOS
Lens	Fixed iris 2.8 mm, F2.2
Minimum illumination	5 lux
Shutter speed	1/28000 s to 2 s with 50 Hz 1/33500 s to 2 s with 60 Hz

System on chip (SoC)

Model	ARTPEC-6
Memory	1024 MB RAM, 512 MB Flash

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG
Resolution	1920x1080 HDTV 1080p to 160x90
Frame rate	30/25 fps (60/50 Hz)
Video streaming	Multiple, individually configurable streams in H.264 and Motion JPEG Axis Zipstream technology in H.264 Controllable frame rate and bandwidth VBR/MBR H.264

Network

Security	IP address filtering, HTTPS[a] encryption, IEEE 802.1X[a] network access control, user access log, centralized certificate management
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS[a], TLS[a], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), 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*
Event conditions	Analytics, external input, edge storage events, virtual inputs through API MQTT subscribe
Event actions	Record video: network share Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email Pre- and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap Overlay text MQTT publish
Data streaming	Event data

Cybersecurity

Edge security	**Software:** Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption **Hardware:** Secure boot
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[a], IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS[a], TLS v1.2/v1.3[a], Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Documentation	*AXIS OS Hardening Guide* *Axis Vulnerability Management Policy* *Axis Security Development Model* AXIS OS Software Bill of Material (SBOM) To download documents, go to *axis.com/support/cybersecurity/resources* To read more about Axis cybersecurity support, go to *axis.com/cybersecurity*

General

Casing	Aluminum casing and plastic faceplate Colors: white NCS S 1002-B, black NCS S 9000-N For repainting instructions of casing and impact on warranty, contact your Axis partner.
Sustainability	PVC free
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4.4 W, max 6 W
Connectors	RJ45 10BASE-T/100BASE-TX PoE
Storage	Recording to network-attached storage (NAS)
Operating conditions	0 °C to 50 °C (32 °F to 122 °F) Start-up temperature: 0 °C (32 °F) Humidity 10–85% RH (non-condensing)
Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
Approvals	**EMC** EN 55032 Class A, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN32 Class A, KC KN35 **Safety** 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 IP40 **Network** NIST SP500-267, IPv6 USGv6
Dimensions	168 x 78 x 30 mm (6.61 x 3.07 x 1.18 in)
Weight	450 g (1 lb)
Included accessories	Installation guide, Windows® decoder 1-user license
Optional accessories	AXIS TP8201 Recessed Mount, AXIS TP8101 Pendant Kit, AXIS T91B21 Stand, AXIS T91B53 Telescopic Ceiling Mount, AXIS T91E61 Wall Mount For more accessories, see *axis.com*
Video management software	AXIS Camera Station, video management software from Axis Application Development Partners available at *axis.com/vms*
Languages	English

Warranty	5-year warranty, see *axis.com/warranty*

a. *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).*