

SOUND EVENT DETECTOR

PRODUCT BROCHURE

What is SOUND EVENT DETECTOR and how does it work

Technology that hears danger

SOUND EVENT DETECTOR (SED) analyzes sounds in real time. When it detects a dangerous event – such as a gunshot, panic scream, breaking glass, and others – it sends an alert to the security system, including a short sound sample for verification.

- Sound analysis is performed locally – no sensitive data is stored or transmitted.
- Alerts appear within seconds in the SED Presentation app or on the customer's dispatch center.
- Artificial intelligence, trained on over a million real sound samples, can detect and distinguish specific incidents.
- SED works both independently and in integration with camera systems (e.g., AXIS, HIKVISION).
- Suitable for schools, cities, transportation, industry, hospitals, and critical infrastructure.

The 5 main types of SED devices



SED A



SED O



SED I



SED C



SED in colors

Device Type	Connection	Placement	Note
SED A (software license)	–	depending on camera	Installed directly into a compatible camera
SED O (outdoor)	GSM / LAN / PoE	exterior	Durable, mountable on poles or walls
SED I (indoor)	GSM / LAN / PoE	interior	Small, discreet, easy to install
SED C (with camera)	GSM / LAN / PoE	exterior/interior	Captures 10 images before/after an incident

All variants are also available in a single-color design, suitable for discreet installations where low visual impact is essential. See SED in colors. Available for purchase from 25 units.

Key Features

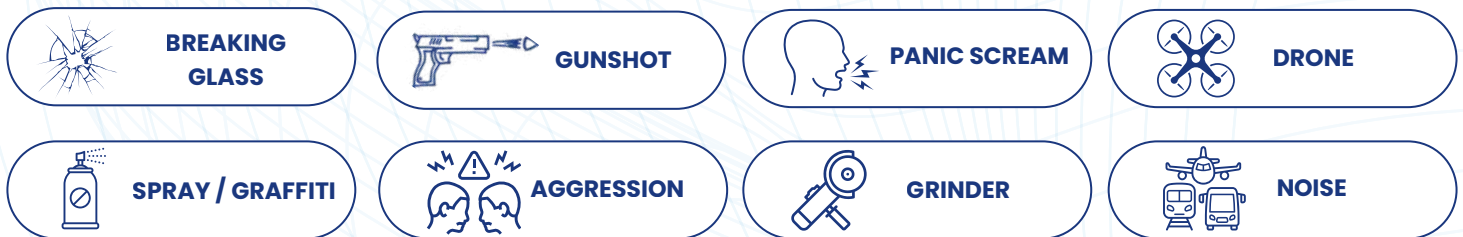
Detection of real threats – not just noise

Unlike traditional noise sensors, which only react to exceeding a certain decibel threshold, SED analyzes the content of sound and can recognize specific dangerous events.

It's not just about measuring volume – it's intelligent sound detection: the system knows what it hears.

- If someone screams, it distinguishes panic from normal conversation.
- If it hears a sharp sound, it recognizes a gunshot or breaking glass – not just a "loud noise".
- It works reliably even in noisy environments where standard sensors would often trigger false alarms.

What SED can detect:



Easy integration into your systems

- ONVIF compatibility and open API
- Compatible with systems: Axis, Genetec, Milestone, IVISEC, Avigilon, Geutebrück, GINA, and more
- Available user interface (mobile/desktop) – intuitive even without integration
- Communication is encrypted, no sensitive data is processed
- Alerts are delivered in real time





SED A

Application:

- For cameras with an open application platform (e.g. AXIS with ACAP, HIKVISION with HEOP)
- Indoor or outdoor installation (depends on the camera)
- Requires a camera with an internal or external microphone
- No additional hardware required

Licence:

- The license is permanent and tied to a specific camera
- One license = one camera

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise mapping)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVISEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Software license (not a physical device)
- Power supply: Via camera
- Operating temperature: According to camera
- Installation: Depends on the camera
- Detection range (gunshot): Up to 150 m
- Detection range (scream): Up to 90 m
- Detection range (glass): Up to 30–42 m



SED OGL

Application:

- Outdoor standalone device with GSM or Ethernet connection
- Installable on poles, facades, or public infrastructure
- Weather resistant (rain, sun, dust)

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise mapping)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVISEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device
- Communication interface: GSM / Ethernet
- Battery backup: No
- Camera module: No
- Dimensions: 180 × 68 × 215 mm
- IP rating: IP65
- Weight: 0.66 kg
- Power supply: AC 100–240 V
- Operating temperature: -40 to +60 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m



SED OGLC

Application:

- Outdoor standalone device with GSM or Ethernet connection
- Includes an integrated camera module – captures and sends a series of images before and after the incident
- Installable on poles or building facades
- Weather resistant (rain, sun, dust)

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise mapping)
- Sound localization (min. 3 detectors or cameras)
- Camera module: 2 Mpx, 160° field of view, IR filter, 5 images before and 5 after the incident, focused from 2 m to infinity

Supported applications:

- IVISEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device with camera
- Communication interface: GSM / Ethernet
- Battery backup: No
- Camera module: Yes
- Dimensions: 180 × 96 × 215 mm
- IP rating: IP65
- Weight: 0.91 kg
- Power supply: AC 100–240 V (intermittent power)
- Operating temperature: -40 to +60 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m



SED OGB

Application:

- Outdoor standalone device with GSM and Ethernet connection
- Suitable for locations with intermittent power supply
- Powered part of the day – outages are covered by integrated battery
- Ideal for installation on public lighting poles
- Weather resistant

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise mapping)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device
- Communication interface: GSM
- Battery backup: Yes
- Battery capacity: LiPo 10Ah
- Battery runtime: up to 30 hours
- Battery warranty: 6 months
- Camera module: No
- Dimensions: 180 × 68 × 215 mm
- IP rating: IP65
- Weight (incl. accessories): 0.84 kg
- Power supply: AC 100–240 V (only part of the day)
- Operating temperature: -20 to +50 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m



SED OGBC

Application:

- Outdoor standalone device with GSM and Ethernet connection
- Suitable for locations with intermittent power supply
- Includes integrated camera module – captures and sends images before and after the incident
- Installable on poles, walls, public lighting
- Weather resistant

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)
- Camera module: 2 Mpx, 160° field of view, IR filter, 5 pre-incident and 5 post-incident images, focused from 2 m to infinity

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device with camera
- Communication interface: GSM
- Battery backup: Yes
- Battery capacity: LiPo 10Ah
- Battery runtime: up to 20 hours
- Battery warranty: 6 months
- Camera module: Yes
- Dimensions: 180 × 96 × 215 mm
- IP rating: IP65
- Weight (incl. accessories): 0.91 kg
- Power supply: AC 100–240 V (only part of the day)
- Operating temperature: -20 to +50 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m



SED OEL

Application:

- Outdoor standalone device with Ethernet (LAN) connection
- Installable on poles, walls, buildings
- Weather resistant (rain, sun, dust)

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device
- Communication interface: Ethernet
- Battery backup: No
- Camera module: No
- Dimensions: 180 × 68 × 215 mm
- IP rating: IP65
- Weight (incl. accessories): 0.66 kg
- Power supply: AC 100–240 V
- Operating temperature: -40 to +60 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m



SED OELC

Application:

- Outdoor standalone device with Ethernet (LAN) connection
- Includes integrated camera module – captures and sends images before and after incident
- Suitable for installation on poles, buildings, and other outdoor elements
- Weather resistant (rain, dust, sun)

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)
- Camera module: 2 Mpx, 160° view, IR filter, 5 images before and 5 after incident, focused from 2 m to infinity

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device with camera
- Communication interface: Ethernet
- Battery backup: No
- Camera module: Yes
- Dimensions: 180 × 96 × 215 mm
- IP rating: IP65
- Weight (incl. accessories): 0.72 kg
- Power supply: AC 100–240 V (integrated adapter)
- Operating temperature: -40 to +60 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m



SED OEB

Application:

- Outdoor standalone device with Ethernet (LAN) connection
- Suitable for locations with intermittent power supply
- Battery covers outages
- Ideal for installation on public lighting poles
- Weather resistant (rain, sun, dust)

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device
- Communication interface: Ethernet
- Battery backup: Yes
- Battery capacity: LiPo 10Ah
- Battery runtime: up to 30 hours
- Battery warranty: 6 months
- Camera module: No
- Dimensions: 180 × 68 × 215 mm
- IP rating: IP65
- Weight (incl. accessories): 0.83 kg
- Power supply: AC 100–240 V (intermittent)
- Operating temperature: -20 to +50 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m



SED OEBC

Application:

- Outdoor standalone device with Ethernet (LAN) connection
- Suitable for locations with intermittent power supply
- Battery covers outages
- Includes integrated camera module – captures and sends images before and after incident
- Installable on poles, building facades, etc.
- Weather resistant (rain, sun, dust)

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)
- Camera module: 2 Mpx, 160° view, IR filter, 5 images before and 5 after incident, focused from 2 m to infinity

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device with camera
- Communication interface: Ethernet
- Battery backup: Yes
- Battery capacity: LiPo 10Ah
- Battery runtime: up to 20 hours
- Battery warranty: 6 months
- Camera module: Yes
- Dimensions: 180 × 96 × 215 mm
- IP rating: IP65
- Weight (incl. accessories): 0.90 kg
- Power supply: AC 100–240 V (intermittent)
- Operating temperature: -20 to +50 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m

POE



SED OP

Application:

- Outdoor standalone device with PoE Ethernet connection
- Powered directly via network cable (PoE 802.3af)
- Suitable for installation on poles, walls, or other exterior locations
- Resistant to weather (rain, sun, dust)

POE



SED OPC

Application:

- Outdoor standalone device with PoE Ethernet connection
- Powered directly via network cable (PoE 802.3af)
- Includes integrated camera module – captures and sends images before and after incident
- Suitable for installation on poles, walls, industrial zones, public infrastructure
- Resistant to weather (rain, sun, dust)

GSM



SED OGD

Application:

- Outdoor standalone device with GSM connection
- Suitable for locations with intermittent power supply (e.g. street lighting)
- Resistant to rain, UV, and demanding outdoor conditions

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device
- Communication interface: Ethernet (PoE)
- Battery backup: No
- Camera module: No
- Dimensions: 180 × 68 × 215 mm
- IP rating: IP65
- Weight (incl. accessories): 0.55 kg
- Power supply: PoE 37–57 V (IEEE 802.3af)
- Operating temperature: -40 to +60 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)
- Camera module: 2 Mpx, 160° view, IR filter, 5 images before and 5 after incident, focused from 2 m to infinity

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device with camera
- Communication interface: Ethernet (PoE)
- Battery backup: No
- Camera module: Yes
- Dimensions: 180 × 96 × 215 mm
- IP rating: IP65
- Weight (incl. accessories): 0.62 kg
- Power supply: PoE 37–57 V (IEEE 802.3af)
- Operating temperature: -40 to +60 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device
- Communication interface: GSM
- Battery backup: No
- Camera module: No
- Dimensions: 130 × 68 × 215 mm
- IP rating: IP65
- Weight: 0.46 kg
- Power supply: DC 7–22V/15W
- Operating temperature: -40 to +60 °C
- Installation height: 3.5–4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50–70 m



SED OGDC

Application:

- Outdoor standalone device with GSM connection
- Integrated camera module – captures and sends images before and after incident
- Installable on public lighting poles, facades, etc.
- Resistant to rain, sun, dust, and temperature fluctuations

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)
- Camera module: 2 Mpx, 160° view, IR filter, 5 images before and 5 after incident, focused from 2 m to infinity

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device with camera
- Communication interface: GSM
- Battery backup: No
- Camera module: Yes
- Dimensions: 130 x 96 x 215 mm
- IP rating: IP65
- Weight: 0.53 kg
- Power supply: DC 7-22V/15W.
- Operating temperature: -40 to +60 °C
- Installation height: 3.5-4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50-70 m



SED OED

Application:

- Outdoor standalone device with Ethernet (LAN) connection
- Ideal for poles, public lighting, or remote infrastructure points
- Resistant to rain, UV radiation, and harsh outdoor conditions

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device
- Communication interface: Ethernet
- Battery backup: No
- Camera module: No
- Dimensions: 130 x 68 x 215 mm
- IP rating: IP65
- Weight: 0.45 kg
- Power supply: DC 7-22V/15W.
- Operating temperature: -40 to +60 °C
- Installation height: 3.5-4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50-70 m



SED OEDC

Application:

- Outdoor standalone device with Ethernet (LAN) connection
- Integrated camera module – captures images before and after incident
- Ideal for poles, lighting systems, buildings
- Resistant to rain, dust, sun radiation, and temperature fluctuations

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn
- Drone – for detection of drones only

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)
- Camera module: 2 Mpx, 160° view, IR filter, 5 images before and 5 after incident, focused from 2 m to infinity

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Outdoor standalone device with camera
- Communication interface: Ethernet
- Battery backup: No
- Camera module: Yes
- Dimensions: 130 x 96 x 215 mm
- IP rating: IP65
- Weight (incl. accessories): 0.52 kg
- Power supply: DC 100-240 V
- Operating temperature: -40 to +60 °C
- Installation height: 3.5-4.0 m
- Detection range (gunshot): Up to 250 m
- Detection range (scream): Up to 150 m
- Detection range (glass): Up to 50-70 m



SED IG

Application:

- Indoor standalone device with GSM connection
- Suitable for rooms, hallways, offices, schools, public buildings
- Discreet design – small and unobtrusive
- Installable on walls or ceilings (based on microphone orientation)

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVISEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Indoor standalone device
- Communication interface: GSM
- Battery backup: No
- Camera module: No
- Dimensions: 118 × 33 × 182 mm
- IP rating: IP50
- Weight (incl. accessories): 0.18 kg / 0.34 kg
- Power supply: AC 90–264 V (wall adapter)
- Operating temperature: -40 to +55 °C
- Installation: Indoor, depending on acoustics
- Detection range (gunshot): Covers typical interior space
- Detection range (scream/glass): Covers typical interior space



SED IE

Application:

- Indoor standalone device with Ethernet (LAN) connection
- Suitable for hallways, rooms, offices, schools, institutions
- Discreet design – compact, without any visible elements
- Mountable on wall or ceiling based on microphone placement

Licence:

- The license is permanent and tied to a specific camera

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVISEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Indoor standalone device
- Communication interface: Ethernet
- Battery backup: No
- Camera module: No
- Dimensions: 118 × 33 × 182 mm
- IP rating: IP50
- Weight (incl. accessories): 0.17 kg / 0.33 kg
- Power supply: AC 90–264 V (wall adapter)
- Operating temperature: -40 to +55 °C
- Installation: Indoor, depending on acoustics
- Detection range: Covers standard interior (room / corridor)

POE



SED IP

Application:

- Indoor standalone device with Ethernet PoE connection
- Powered directly via network cable (PoE 802.3af)
- Suitable for schools, offices, hospitals, public interiors
- Discreet design – ideal for visually sensitive areas

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVISEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Indoor standalone device
- Communication interface: Ethernet (PoE)
- Battery backup: No
- Camera module: Yes
- Dimensions: 118 × 33 × 182 mm
- IP rating: IP50
- Weight (incl. accessories): 0.20 kg / 0.36 kg
- Power supply: PoE 37–57 V (IEEE 802.3af)
- Operating temperature: -40 to +55 °C
- Installation: Wall/ceiling depending on acoustics
- Detection range: Covers standard interior (room / corridor)



SED IGD

Application:

- Indoor standalone device with Ethernet (LAN) connection
- Suitable for hallways, offices, classrooms, government buildings, etc.
- Discreet design – compact size, no visible elements
- Can be mounted on wall or ceiling depending on microphone orientation

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Indoor standalone device
- Communication interface: GSM
- Battery backup: No
- Camera module: No
- Dimensions: 118 × 33 × 182 mm
- IP rating: IP50
- Weight (incl. accessories): 0.18 kg / 0.5 kg
- Power supply: DC 7-22V/15W
- Operating temperature: -40 to +55 °C
- Installation: Indoors, based on acoustic conditions
- Detection range (gunshot): Covers standard interior
- Detection range (scream/glass): Covers standard interior



SED IED

Application:

- Indoor standalone device with Ethernet (LAN) connection
- Suitable for offices, schools, corridors, public spaces, medical offices, etc.
- Discreet design – small size, no distracting elements
- Easily mountable on wall or ceiling depending on acoustics

Licence:

- Device is standalone, does not require a camera-based license

Software versions:

- Basic: gunshot, breaking glass, panic scream, aggressive scream, male scream
- Full (optional): fireworks, grinder, siren, spray, vehicle, traffic, alarm, people, children, construction noise, creaking, horn

Additional functions (Full version):

- Noise monitoring (including noise maps)
- Sound localization (min. 3 detectors or cameras)

Supported applications:

- IVESEC (ZLD), AXIS Workstation, Genetec, Milestone, Avigilon, Geutebrück, ONVIF

Specification:

- Type: Indoor standalone device
- Communication interface: Ethernet
- Battery backup: No
- Camera module: No
- Dimensions: 118 × 33 × 182 mm
- IP rating: IP50
- Weight (incl. accessories): 0.18 kg / 0.5 kg
- Power supply: DC 7-22V/15W
- Operating temperature: -40 to +55 °C
- Installation: Indoors, based on acoustic conditions
- Detection range (gunshot): Covers standard interior
- Detection range (scream/glass): Covers standard interior

Case Study: How SED Increases the Efficiency of City Surveillance – The Example of Pilsen

In November 2024, the city of Pilsen operated approximately 330 cameras in its municipal surveillance system with four operators per shift. That month, police identified a total of 89 public order incidents through camera monitoring. In parallel, the system also included sound detectors (SED), installed at only part of the sites – specifically 60 detectors, which covered about 18% of the entire camera network.

Despite this limited deployment, **SED detectors independently identified 61 relevant incidents.**

This means that they nearly matched the performance of the entire human operator team managing all cameras. This is clear evidence that smart algorithms and targeted acoustic detection can significantly support and complement human surveillance.

Data, Efficiency and Impact

- 89 incidents were identified by the human operator team using 330 cameras
- 61 incidents were independently detected by SED detectors (60 devices = ~18% coverage)
- SED false alarm rate: 5% vs. 34% in video analytics
- In practice, each SED detector “takes over” detection of real incidents that would otherwise burden the dispatch team
- On average, 1–2 relevant events per hour are verified based on SED alerts

Costs and Return on Investment

Running a 24/7 operation with four operators per shift (a total of 14 staff) costs the city approximately EUR 28 300 per month (estimated including taxes). In contrast, running 60 SED detectors including service costs about EUR 1550 per month.

Therefore:

SED = approximately 95% cheaper than human operation

And yet the results are comparable when it comes to identifying real incidents.

If the city chose to fully cover the camera network with SED (330 detectors), the total monthly cost would be approximately EUR 8900 – still significantly lower than the cost of manual operation. Additionally, full deployment would increase efficiency, reduce false alarms, and relieve staff.

Conclusion

This case study confirms that intelligent acoustic detection is a key component of modern urban security. SED detectors can:

- Independently and reliably detect real incidents even in noisy environments
- Significantly reduce city surveillance costs
- Increase the likelihood of timely response
- Respect citizen privacy (no recording or continuous data transmission)
- Be significantly more cost-effective than installing new camera points
- (one SED unit ≈ EUR 1900 – 2200 vs. new camera point up to EUR 6100–10200 depending on installation)

Let's make cities and buildings safer – together.

Are you interested in how SED could enhance safety in your city, building, or institution?

We'll help you explore options, provide a demonstration, or design a pilot project tailored to your needs.

✉ Contact us today to start the conversation.

Contact

JALUD EMBEDDED s.r.o.
Nepomucká 355/261
326 00 Plzeň, Czech Republic

 www.soundeventdetector.eu

 sales@jalud-embedded.com

certifications



ISO 9001 Certified



ISO 27001 Certified



GDPR Compliant