

Remotely triggered, smoke generating security device with optional sensors. Features include:

- Verification by central monitoring station or phone app before deploying smoke
- HD camera
- Voice announcements warn intruder
- PIR motion detection
- Multiple tamper mechanism
- Battery or DC powered
- Easy installation, using wall mount
- Remote software updates
- Built-in self-test reporting
- Integrate with 3rd party security system



Smart Security



Essence Smart Security systems provide professional-grade security with highly dependable and tailored smart solutions that will increase customer loyalty and satisfaction:

- User-friendly
- Utilizes cutting-edge technology
- Easy to install
- Nonintrusive, state-of-the-art design

SPECIFICATIONS



COMMUNICATIONS

- Cat-M cellular network

SECURITY & SAFETY

- **Tamper mechanisms:** removed from wall, removed canister, wired-input cable cut

MOTION SENSOR

- **PIR:** FOV 160° up to 12 m (39 ft.)
- **PIR (with pet immune):** FOV 145° up to 10 m (33 ft.)

POWER

- **Operating Voltage:** 9VDC
- **Batteries:** Six CR123A
- **Battery life:** Up to two years.
- **Battery life calculator** - Reference: <https://www.essence-grp.com/myshield-calculator/>
- **External power 12VDC** – Optional

VIDEO CAPTURE

- **Camera:** HD CMOS
- **Daylight Range:** 12 m (39.4 ft.)
- **Darkness Range:** 6 m (19.7 ft.)
- Color night recording with white LED
- **Resolution:** Up to 1280 x 720 Pixels
- **Viewing angle (H x V):** 140° x 80°
- **Video compression:** H.264 encoding
- **Trigger mechanism:** PIR detection

DIMENSIONS

- **Size (H x W x D):** 208 mm (8.2 in.) x 132 mm (5.2 in.) x 78 mm (3.1 in.)
- **Weight:** ~1 kg (~2.2 lbs.) including batteries and smoke canister

ENVIRONMENT

- **Storage ambient temperature range:** -20°C to 70°C (-4°F to 158°F)
- **Operating ambient temperature range with battery:** -10° C – +55° C (14° F – 131° F)
- **Operating humidity:** Up to 95% non-condensing
- **Water and dust resistant:** IP21 compliant

SMOKE CANISTER

- **Smoke duration:** approximately 30 seconds
- **Saturable volume:** 100 m³
- **Dimensions:** D – 71 mm (2.8 in.), H – 131 mm (5.1 in.)
- **Weight:** 400 g (0.88 lbs.)
- **Storage ambient temperature range:** -20°C – +75°C (-4°F – +167°F)
- **Life span:** 5 years

CERTIFICATIONS AND APPROVALS

- USA
 - CFR47 FCC, part 15, class B
 - ICES 003
 - California proposition 65 (canister)
 - UN 0432 class code 1.4S (canister)
- Europe:
 - EN 62368-1
 - EN 61000-6-3
 - EN 301 489-1
 - EN 301 489-3
 - UN 0432 class code 1.4S (canister)
 - EC category: P1 (canister)
 - EN 901-908-Cat-M

PART NUMBER: ES900MS

