

# **Plug-and-play Sound Analytics Software** For Your Security Cameras, Speakers, and VMS

#### **Overview**

Cochl. Sense is an innovative Al-based sound recognition software developed with Cochl's award-winning proprietary deep-learning and signal processing technology. It enables IP cameras and IP speakers to directly capture crucial sound events, such as gunshots, screaming, smoke alarm, and car crash at the device level, with an exceptionally low false rate.

# **Integration made easy**



Sound event



on the camera or on VMS





& alarm



'car crash' 'qunshot'

### **Partners**





























### **Verticals**

### **Smart Cities Defense**



**Violence** Break-in

# **Transportation**



Car accident Noise pollution

## Healthcare /Senior care



Patient monitoring Staff safety

### **Education**



**Vandalism** Violence

# **Applications**

#### **Car accident detection**

- ► Car crash, Tire squeal
- ▶ Road monitoring

#### **Car burnout detection**

- ► Backfire, Engine accel.
- ▶ Noise pollution

#### Glass break detection

- ► Indoor glass break
- ► Buildings & parking lots

#### **Gunshot detection**

Pistol, Revolver, Rifle,Shotgun, Machine gun

### Scream/yell detection

- ► Indoor & outdoor
- ► Public safety & healthcare

#### Siren detection

► Fire truck, Police car, Ambulance, Civil siren

# **Industry-leading Technology**



1st 100

94 %

Award winning technology built by top Al researchers

Processed on the edge, Perfectly privacy-safe

F-1 score (accuracy) evaluated by IEEE



# **Cochl vs Traditional Sound Analytics Solutions**

#### **Our solution**

- Purely deep learning-based, accurately detects sound events
- High accuracy assured with proprietary datasets and techniques
- Easy to deploy to new environments or install on different devices

#### **Traditional solutions**

- Relies on a rule-based model or certain decibel levels
- Produces frequent false alarms especially in the noisy environments
- Takes months to deploy or optimize for new environments or different devices