



DISTRAN
SWITZERLAND

Ultra Pro

Ultrasound Imaging
for Gas Leak Detection



APPLICATIONS

- ▶ Predictive maintenance of high-availability plants
- ▶ Urgent leak searches on assets
- ▶ Inspections prior and after planned maintenance activities
- ▶ Routine checks for toxic or explosive gases
- ▶ Cost-effective maintenance of systems using atmospheric gases (compressed air, nitrogen, argon, etc.)

FEATURES

- ▶ Pinpoint leaks of any gas in real-time
- ▶ Inspect from a safe distance of up to 100 meters
- ▶ Take pictures and videos of detected leaks
- ▶ Real-time leak rate estimation to set priorities
- ▶ Integrated reporting system

DESCRIPTION

The ultrasound camera Ultra Pro uses 124 integrated microphones to locate ultrasound emitted by leaks of all types of gases and vacuum. The sound source location is indicated in real-time on an integrated screen. Pictures and videos can be recorded and integrated in digital reports with Distran Audalytics.

TECHNOLOGY

At the core of Ultra Pro are the multiple sensing elements included in its head. When a sound wave hits the surface of the device, it reaches the elements at times that differ of less than a millisecond. These little time differences are processed by the device in real-time to display the location of the sound sources.

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SPECIFICATIONS

| | |
|----------------------------------|--|
| Detected gases | All compressed gases incl. air, vacuum and steam |
| Working distance | From: 0.3 - 100 m (12 in - 330 ft) Typical: 1 - 6 m (3 ft - 20 ft) |
| Lower limit of detection | Quiet environment 2 L/h (0.1 ft ³ /h) Industrial environment 10 L/h (0.4 ft ³ /h) |
| Pressure difference | Min. 50 mbar (0.7 psi) |
| Detection method | Acoustic imaging using 124 ultrasound sensors |
| Acoustic angle of view | 180° |
| Optical angle of view | 110° |
| Weight | 1.5 kg (3.3 lb) |
| Angular detection accuracy | < 1° |
| Battery life | 5 hours (2.5h x 2 batteries) |
| Ultra Pro X (Ex-Proof option) | II 3G Ex ic IIC T5 Gc II 3D Ex ic IIIC T100°C Dc Tamb= -10°C to 40°C |
| Temperature range | -10°C to 50°C (10°F to 122°F) |
| Integrated LED lights | 1400 lumens, dimmable |
| Output format | JPEG and AVI |
| Data export | Audalytics or SD card |
| Input methods | Button and touchscreen |
| Wireless modules | Wifi 802.11 b/g/n |



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