

ULTRA PRO MAX

Ultrasound Imaging for Gas Leak Detection

Engineered for the most demanding leak detection challenges:

- **DeepRange** imaging algorithm enables small leak detection in noisy industrial environments.
- **Detection Confidence Level** supports controlled inspections.



Distran Ultra Pro X Emissions detects and locates gas leaks without contact and from a distance, using the ultrasound emitted by the gas leaks.

- Detect leaks of any gas type under pressure
- Visualize leak locations on screen
- Classify leaks with real-time leak rate quantification
- Record pictures and videos and report findings with a few clicks

APPLICATIONS:

- Predictive maintenance of high-availability plants
- Emergency leak detection and troubleshooting
- Inspections before and after planned maintenance activities
- Routine checks for toxic or explosive gases

DETECTION CONFIDENCE LEVEL BENEFITS:

- Define minimum leak rates not to be missed
- Real-time alerts when detection confidence drops
- Integrate directly into SOPs for consistent, repeatable inspections

DEPLOYED DAILY IN : OIL & GAS | CHEMICALS | POWER GENERATION | HYDROGEN | AEROSPACE

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ULTRA PRO MAX - SPECIFICATIONS

Detected gases	All compressed gases, incl. Hydrocarbons, hydrogen, air, vacuum and steam
Acoustic imaging method	DeepRange: proprietary algorithm with enhanced noise rejection
Minimal detectable leak	0.15 L/h (for a 1.5 bar N ₂ leak, from 30 cm) 0.005 SCFH (for a 22 psi N ₂ leak, from 1 ft)
Minimum detectable leak in a typical industrial setting	2 L/h 0.07 SCFH
Working distance	Typical: from 1 to 8 meters from 3 to 26 feet From 30 centimeters (1 foot) to > 200 meters (> 220 yards)
Angle of view	Optical: >150° Acoustic: 180°
Optical zoom	Up to 4.3x
Multiple leak detection	Automatic & simultaneous
Leak rate quantification	Quantification in L/h, g/h, or SCFH in real time Gas-specific models for H ₂ , CH ₄ , Ar, CO ₂ , He, N ₂ , Air
Leak cost estimation	Shown live in the currency of your choice, calculated as a yearly amount
Detection Confidence Level (DCL)	Real-time indication of the confidence in detecting all leaks exceeding the user-defined threshold
Hazardous Environment Certifications (Available as Ultra Pro X Max)	ATEX: II 3G Ex ic IIC T5 Gc; II 3D Ex ic IIIC T100°C Dc IECEx/KOSHA: Ex ic IIC T5 Gc; Ex ic IIIC T100°C Dc UL/CSA: Class I, Division 2, Groups A, B, C, D, T4 Tamb = -10°C to 40°C
IP Rating Ultra Pro X Max	IP 54
Health Center	Self-diagnostic of the microphone array and sensor processors
Positioning/GNSS	Built-in GPS (GPS, Galileo, GLONASS), user configurable
Frequency range	8-58 kHz, with embedded spectrogram
Acoustic Focus	Automatic estimation of distance to sound source
Integrated LED lights	1400 lumens
Battery life	5 hours (2,5 hours x 2 batteries included)
Handling & weight	Single hand, 1.5 kg 3.3 lb
Operating temperature range	-20°C to 50°C -4°F to 122°F (for Ultra Pro Max)
Annotations of findings	Add information to leak findings: gas type, asset, PNID, etc.
Speech-to-text	Document findings hands-free with voice notes while inspecting Transcribe into text with a click on reporting system
Reporting	On Audalytics, or export leak findings via Wifi or SD card Files format: JPEG and MP4
API integration	Integrate leak findings seamlessly with your own system via API
Training	Onsite training led by experts, online resources available
Certifications	EMC & RED: 2014/30/EU 2014/53/EU FCC 47 CFR part 15 B ICES-003 RoHS: 2011/65/EU WEEE: 2012/19/EU UL Safety (option): IEC 61010-1

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