

# Ultra M v2

## Data Sheet



### Applications

- ◆ Predictive maintenance of high-availability plants
- ◆ Urgent leak searches for critical assets
- ◆ Inspections prior and after planned outages
- ◆ Cost-effective maintenance of systems using atmospheric gases (compressed air, nitrogen, argon...)

### Features

- ◆ Pinpoint leaks of any gas in real-time from a safe distance of up to 50 m
- ◆ Pictures and videos of detected leaks
- ◆ Real-time leak rate estimation to assess leak severity
- ◆ Integrated reporting system

### Description

The ultrasound camera Ultra M uses 124 integrated sensors 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 documents with the DISTRAN Audalytics reporting tool.

### Technology

At the core of Ultra M are 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 sufficient for the device to find the location of the sound source.



**DISTRAN**  
SWITZERLAND

Description	Specifications
Detected gases	All compressed gases incl. air and vacuum
Working distance	From: 0.3 – 50 m (12 in – 160 ft) Typical: 1 – 6 m (3 ft – 20 ft)
Detection threshold	Quiet environment 2 L/h (0.1 ft <sup>3</sup> /h) Industrial environment 10 L/h (0.4 ft <sup>3</sup> /h)
Pressure difference	Min. 50 mbar (0.7 psi)
Detection method	Acoustic imaging using 124 ultrasound sensors
Video camera resolution	8.8 MP
Acoustic angle of view	180° (half-space)
Optical angle of view	170° diagonal
Weight	1.4 kg (3.1 lb)
Angular detection accuracy	< 1°
Battery life	2.5 hours
Ex marking (option)	Ex ic IIC T4
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
Wireless modules	Wifi, GPS



Distran Ltd.  
Breitensteinstrasse 96  
8037 Zurich  
Switzerland

[www.distran.ch](http://www.distran.ch)  
e-mail: [sales@distran.ch](mailto:sales@distran.ch)  
tel: +41 44 271 15 79