

# Air Leak Viewer

# MK-750

ISO9001



JQA-0950

Supporting Energy Saving by Air Leak Visualization

Overlaying indication of leak direction on the camera image !



## Features

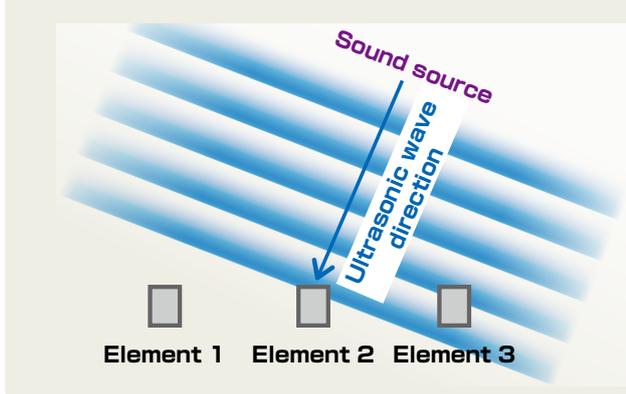
**MK-750 detects ultrasonic waves from air leaks by array sensors, indicates sound pressure map on screen, and points the source of the sound!**

- Quick air leak detection from wide searching area (horizontal 50°, vertical 30°)
- Detection from far position is enabled.
- Even in noisy circumstances, detection by ultrasonic wave works.
- Indication of camera images with overlaid sound pressure maps which can be stored in SD card.

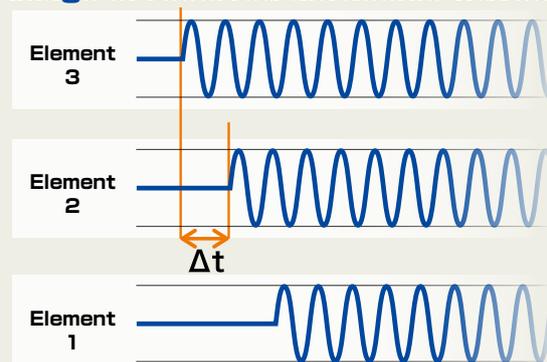


JFE Advantech Co., Ltd.

## Principle

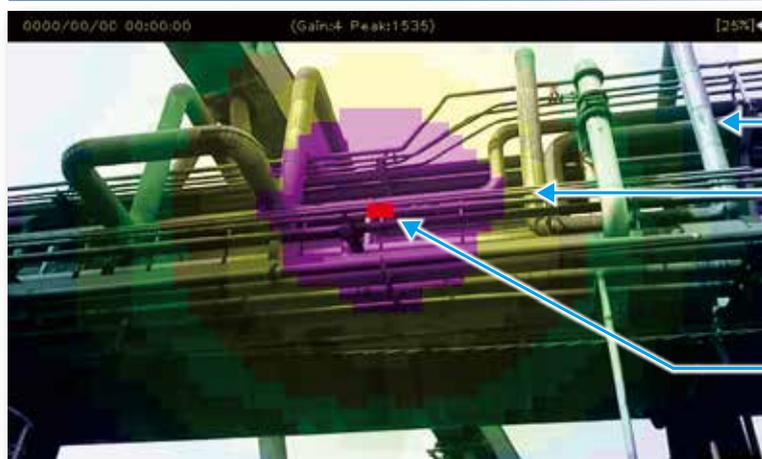


## Image of received ultrasonic waves



Ultrasonic waves are caught by array sensor consisted of elements, and there are time distance ( $\Delta t$ ) in waveforms received by the elements. It occurs from angle from sound source direction. MK-750 finds the direction of the sound source = the leak point.

## Display image



### ① Status bar

Date, time, gain setting, sound pressure peak value, battery life

### ② Camera image

Screen changes to monochrome at sound pressure map indication

### ③ Sound pressure map

Sound pressure map is indicated in colors of 8 steps.

Highest sound pressure point is indicated in red.

### ④ Highest sound pressure point (supposed to be leak point)

## Specifications

Ultrasonic wave sensor	Center frequency 40kHz
Detection ability	Leak of 70kPa from a hole of 0.2mm diameter can be detected at a distance of 4.6m * At laboratory of us
Detectable range	50° X 30°
Screen	5 inches display, 800X480 pixels
Indication contents	Camera image, Sound pressure peak value, Sound pressure map
Updating frequency	5 times per second
Data storage capacity	Over 3500 records Data media : 1GB SD card
Data contents	Camera images, Sound pressure map overlaying images, Sound pressure map data
Power supply	Lithium ion battery Continuous operation time: About 2 hours
Dimensions	180mm (W) X 210mm (H) X 50mm (D)
Mass	Approx. 1200g (including rechargeable battery)
Standard configuration	1 Main unit, 1 SD card (1GB), 1 rechargeable Lithium ion battery, 1 recharger, 1 hand strap, 1 instruction manual, 1 carrying case(MK-9704)
Option	Reference oscillator(MP-161)



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