

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

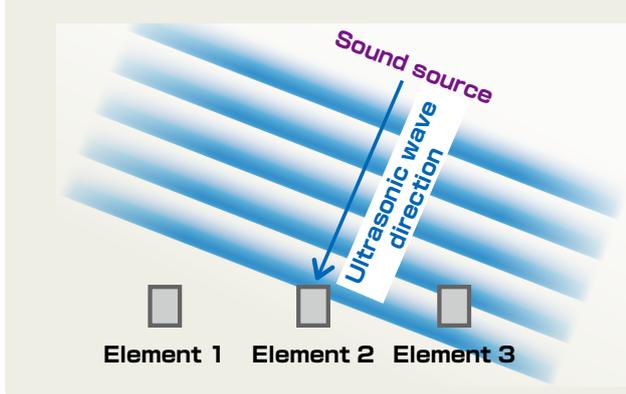
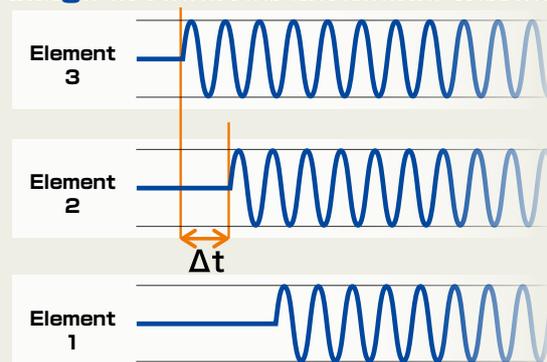


Image of received ultrasonic waves



Ultrasonic waves are caught by array sensor consisted of elements, and there are time distance (Δt) 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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