



Quick Design Quick Service

I. TRADIO

Audio Surveillance & Monitoring Kit



User Manual

QUICKFISH
AUDIO MONITORING CO.

Introduce2
 Description3
 Installation and Operation4
 Specifications5
 Polar Pattern6
 Frequency Response6
 Limited Warranty7

Introduce

Thank you to purchase *I.TRADIO* Audio Surveillance & Monitoring Kits.

For use its all function rightly, Please read this document before installation and operation.

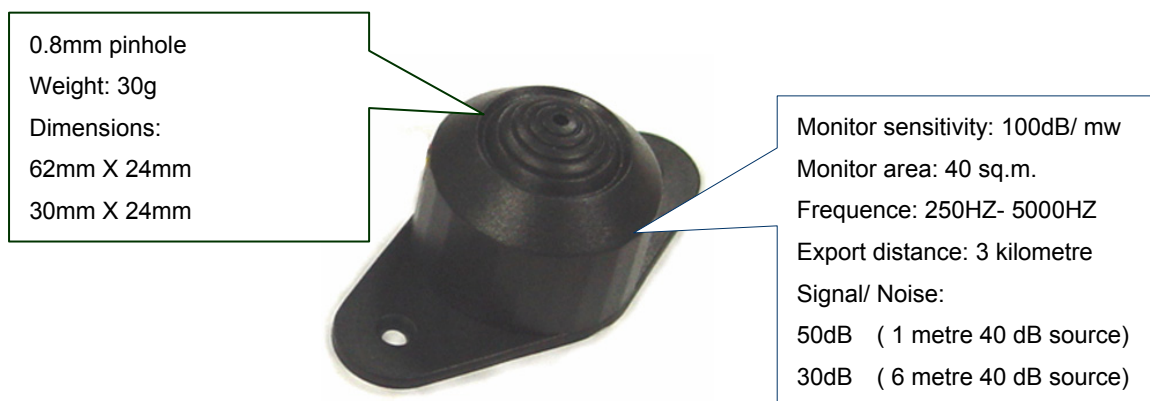
The *I.TRADIO* is a wide-range Audio Surveillance & Monitoring Kits with omnidirectional condenser microphone and built-in preamp.

It is designed for unobtrusive table, ceiling or panel-mounted applications for high-quality sound reinforcement, teleconferencing, professional recording, television and other demanding sound pickup applications.

The *I.TRADIO* is a similar microphone, with a unidirectional polar pattern. Positioning a properly designed miniature unidirectional microphone centrally on a large, flat, unobstructed surface yields several distinct advantages. The directivity factor is greatly increased over a comparable omnidirectional microphone, thus promoting enhanced gain before feedback and further suppressing ambient noise. Sensitivity is increased for improved signal-to-noise ratio. Phase distortion due to reflected sound energy from the boundary itself is eliminated.

The kit require 9V to 18V DC power for operation. The microphone are enclosed in a die-cast case and protected by two layers of perforated PVC.

The low-profile housing has a low-reflectance blue finish. Isolators are included with each microphone for applications where mechanical isolation from the mounting surface is required.



Description

- 🌐 Professional wired voice monitor.
- 🌐 Low noise, low echo.
- 🌐 Advanced omni-directional, electret condenser with built-in preamp.
- 🌐 Since adapt to dynamic state fall chirp disposal.
- 🌐 Dynamic electro-noise control circuit.
- 🌐 Automatic restrain high intensity's voice, dependable protect behind hold equipment.
- 🌐 0.8mm pinholes and mini-size.
- 🌐 The patent that long distanced transmission.
- 🌐 Audio cable: 4 cores line, network's twisted pairs, shield cable average can usage.
- 🌐 Widely working temperature range (-25°C ~ 75°C).
- 🌐 Built-in lightning stroke protection and power protection circuit.
- 🌐 Built-in preamp, direct drive speaker, recorder, DVR, VCR.
- 🌐 Widely used in: Police, Monitorship, Judicatory, Safety, Army's department.

Installation and Operation

Output is low impedance balanced. The audio balanced signal connection is Pin "A.OUT +", while the audio ground (shield) connection is Pin "A.OUT -". Output is phased so that positive acoustic pressure produces positive voltage at Pin "A.OUT +" in accordance with industry convention.

The kit require 9V to 18V DC power for operation. The microphone are enclosed in a die-cast case and protected by two layers of perforated PVC.

The kit should be placed on a flat, unobstructed mounting surface. The sound source should not be below the plane of the mounting surface.

An integral 250 Hz high-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

The I.TRADIO mark on the kit bezel indicates the "front" of the kit.

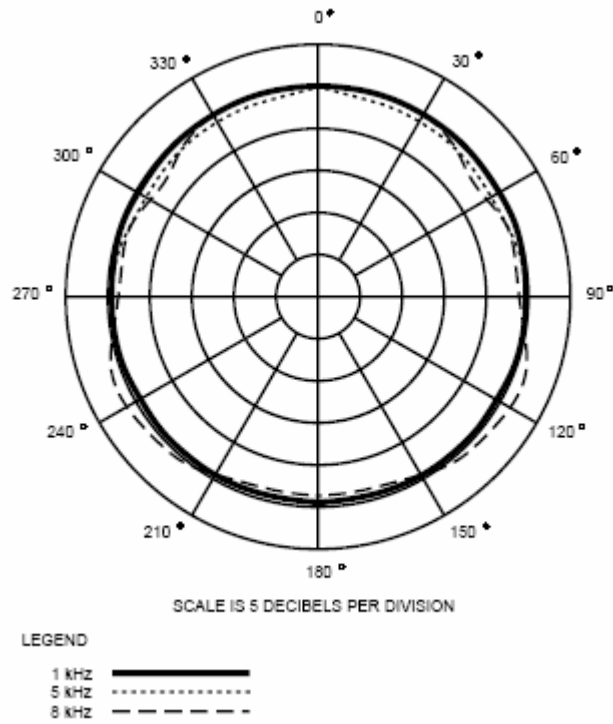
While a modern fixed-charge condenser microphone is not unduly sensitive to the environment, temperature extremes can be harmful. Exposure to high temperature can result in gradual and permanent reduction of the output level. Avoid leaving the microphone in the open sun or in areas where temperatures exceed 60° C for long periods of time. Extremely high humidity should also be avoided.

NOTE: Placing any object on a surface (such as a conference table) before its finish is fully cured may result in damage to the finish.

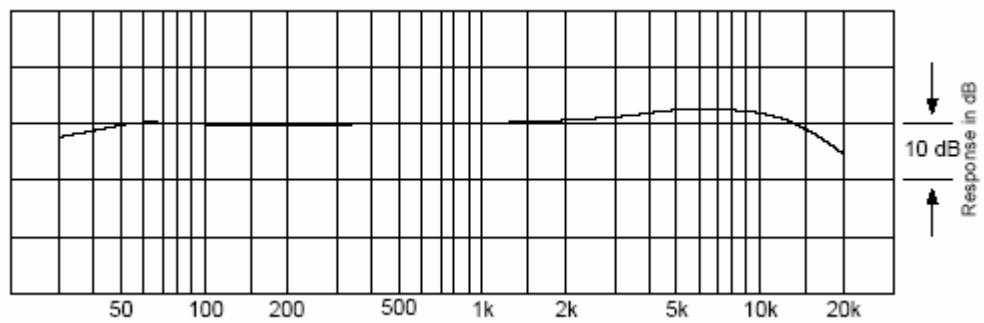
SPECIFICATIONS

PARAMETER	PERFORMANCE
MONITOR RANGE	10 -40 sq.m.
EXPORT DISTANCE	3 kilometre
FREQUENCY RESPONSE	250 – 5,000Hz
LOW FREQUENCY ROLL-OFF	280 Hz, 18 dB/octave
SENSITIVITY	100dB/MW
SIGNAL-TO-NOISE RATIO	50 dB, 1 kHz at 1 Pa
POLAR PATTERN	Omnidirectional in hemisphere above mounting surface
OPEN CIRCUIT SENSITIVITY	-35dB(7.9mV) 0dB=1V/1Pa,1KHz
DYNAMIC RANGE	104dB (1KHz at Max dB SPL)
MAXIMUM INPUT SOUND LEVEL	120dB SPL (1KHz,THD 1%)
IMPEDANCE	600ohms (None Balance)
OUTPUT SIGNAL EXTENT	2.5Vpp/-25db
ELEMENT	Fixed-charge back plate permanently polarized condenser
DIGITAL SIGNAL CIRCUIT	ASIC
PROTECT CIRCUIT	Built-in lightning stroke protection and power protection circuit
PREAMP	Build-in
OUTPUT CONNECTOR	Power+, Power- , Audio+, Audio-
CABLE	4 cores line, network's twisted pairs, shield cable
POWER VOLTAGE	DC 8-20V
POWER CURRENT	20 mA
WORK TEMPERATURES	-25 - 70° C
COLOR	White or Black
SHELL'S MATERIAL	PVC
DIMENSIONS	35mm×17mm
WEIGHT	30 g
OEM	China
ACCESSORIES FURNISHED	Soft protective pouch

Polar Pattern



Frequency Response



One-Year Limited Warranty

TRADIO Audio Surveillance & Monitoring Kits and accessories purchased in the China are warranted for one year from date of purchase by *QuickFish* Co., Ltd. to be free of defects in materials and workmanship.

In event of such defect, product will be repaired promptly without charge or, at our option, replaced with a new product of equal or superior value if delivered to *QuickFish* or an Authorized Service Center, prepaid, together with the sales slip or other proof of purchase date. Prior approval from *QuickFish* is required for return.

This warranty excludes defects due to normal wear, abuse, shipping damage, or failure to use product in accordance with instructions. This warranty is void in the event of unauthorized repair or modification.

For return approval and shipping information, contact the Service Department, *QuickFish* Co, Ltd., 31 Beisanhuan Middle Rd., Haidian, Beijing, China 100088.

Except to the extent precluded by applicable state law, *QuickFish* will have no liability for any consequential, incidental, or special damages; any warranty of merchantability or fitness for particular purpose expires when this warranty expires.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Outside the China., please contact your local dealer for warranty details.