

High Performance Condenser Microphones



TD-1 Series High Performance Condenser Microphones

TD Series High Performance Condenser Microphones		12.2
TD-1C/39	High Performance Condenser Microphone (gold-plated condenser microphone, Ø 22 mm, cardioid unidirectional, XLRM-type connector, total length 390 mm, black).....	12.2
TD-1C/47	High Performance Condenser Microphone (gold-plated condenser microphone, Ø 22 mm, cardioid unidirectional, XLRM-type connector, total length 470 mm, black).....	12.2
TD-1	Tabletop High Performance Condenser Microphone (column microphone, gold-plated condenser microphone, Ø 22 mm, hypercardioid uni-directional, low-cut, optional key function, 3-pin XLRM-type output, with 2-metre cable, modern gray).....	12.2
TD-1B	Tabletop High Performance Microphone Base (3-pin XLRM-type output, with 2-metre cable, with self-lock button, modern gray).....	12.2

Overview

TD-1 Series High Performance Condenser Microphone is the top-notch performance condenser microphone launched by TAIDEN. Its superior audio performance and elegant appearance makes it stand out among its counterparts.

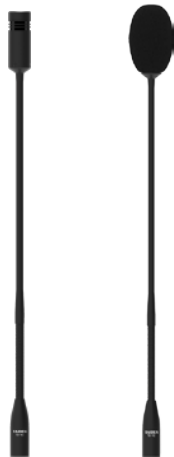
Upgraded appearance

- Sleek and modern design
- Durable aluminum enclosure
- Well balance between form and function
- Adjustable microphone pitching angle
- Tactile On/Off button and ring indicator
- Column and gooseneck microphone available

Features

- Thin and light microphone diaphragm brings superior frequency response and excellent sound quality
- 22 mm condenser capsule with greater pickup distance.
- Speakers are no longer limited to close distance Low cut reduces microphone popping and ambient noise
- DIP switch for flexible setting of the On/Off button
- Excellent immunity to RF interference from mobile phones
- Aim for contribution to professionalism of events

TD-1C Series High Performance Condenser Microphone



Features

- Stylish and ergonomic design
- For quality sound reinforcement, professional recording, television, conference and other demanding sound pickup applications
- The gooseneck design permits highly flexible positioning while maintaining a smooth, wellcontoured appearance
- An included snap-on foam windscreen effectively reduces wind and pop noise
- Uni-directional electret condenser microphone
- Excellent immunity to RF interference from mobile phones and comparable devices
- Built-in microphone power supply and amplifier components can be powered from any external 24 V to 52 V DC phantom power supply
- Simple and rapid installation. The microphone terminal is a standard 3-pin XLRM-type connector, which can be connected to any 3-pin XLRF-type socket or directly to the sound mixing console
- Low-impedance balanced audio output, audio signals output from Pins 2 and 3 of XLRM-type connector (Pin 2 is positive phase level, Pin 3 is negative phase level), while Pin 1 is for the ground (shield) connection

Technical Specifications

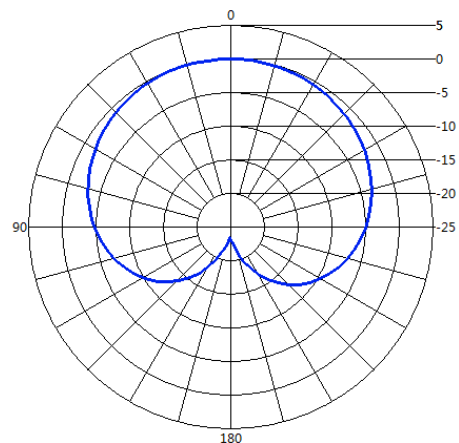
Electrical

Element.....Condenser microphone
 Diameter.....22 mm
 Polar pattern.....Cardioid unidirectional
 Sensitivity.....-35 dBV/Pa
 Frequency response.....20 Hz to 20 kHz
 Output impedance.....100 Ohm
 Rated load impedance.....≥1kΩ
 Maximum sound pressure.....136 dB, THD<0.5%
 SNR.....79 dBA
 Dynamic range (typical).....121 dBA
 Phantom power requirements.....DC 24 V - 52 V, 4 mA
 Output connector.....3-pin XLRM-type connector

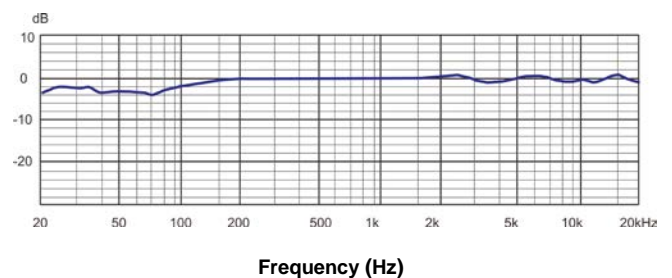
Mechanical

Dimensions.....TD-1C/39: 390 mm – long
TD-1C/47: 470 mm – long
Head diameter: 22 mm
 Weight.....TD-1C/39: 146 g
TD-1C/47: 150g
 Accessory.....Foam windscreen
 Color.....Black (PANTONE 419 C)

Polar pattern



Frequency response



Ordering Information

TD-1C/39.....High Performance Condenser Microphone (gold-plated condenser microphone, Ø 22 mm, cardioid unidirectional, XLRM-type connector, total length 390 mm, black)
 TD-1C/47.....High Performance Condenser Microphone (gold-plated condenser microphone, Ø 22 mm, cardioid unidirectional, XLRM-type connector, total length 470 mm, black)

TD-1 Tabletop High Performance Condenser Microphone



Features

- Delicate and elegant structural design, fashionable modern gray color scheme, ergonomic and highly modern
- Gold-plated condenser microphone, Ø 22 mm
- Columnar microphone, the pitching angle of the microphone is adjustable
- Hypercardioid uni-directional condenser microphone
- Built-in microphone power supply and amplifier components can be powered from any external 24 V to 52 V DC phantom power supply
- Flat frequency response when switch is set to “—” position. When switch is set to “∩” position the built-in high-quality low-frequency attenuation circuit cuts-off at 80 Hz, reducing airflow noise when speaking close to the microphone. Reduces pick-up of low-frequency ambient noise (such as traffic, air-conditioning system, etc.), room echo and the sound of mechanical vibrations
- 3-pin XLRM-type connector with 2-meter long cable on the rear as microphone signal output
- Low-impedance balanced audio output, audio signals output from Pins 2 and 3 of XLRM-type connector (Pin 2 is positive phase level, Pin 3 is negative phase level), while Pin 1 is for the ground (shield) connection
- The LED ring status and microphone key function can be set by the bottom DIP switch
- Excellent immunity to RF interference from mobile phones and comparable devices
- It can be widely used in meetings, lectures and on other occasions

Technical Specifications

Electrical

Element.....Condenser microphone
 Diameter.....22 mm
 Polar pattern.....Hypercardioid unidirectional
 Sensitivity.....-35 dBV/Pa
 Frequency response.....20 Hz to 20 kHz
 Output impedance.....280 Ohm

Low frequency roll-off.....80 Hz, -18 dB/octave
 Directivity 0°/135°.....≥20 dB (1 kHz)
 Directivity 0°/180°.....≥15 dB (1 kHz)
 Maximum sound pressure level.....136 dB (THD≤0. 5%)
 SNR.....79 dBA
 Dynamic range (typical).....121 dBA
 Phantom power requirements.....DC 24 V - 52 V, 8 mA

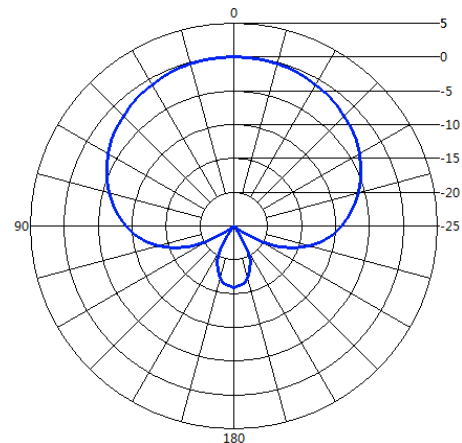
Interconnections

Output connector.....3 XLRM-type with 2-meter long cable
 DIP switch.....Low cut and function setting switch

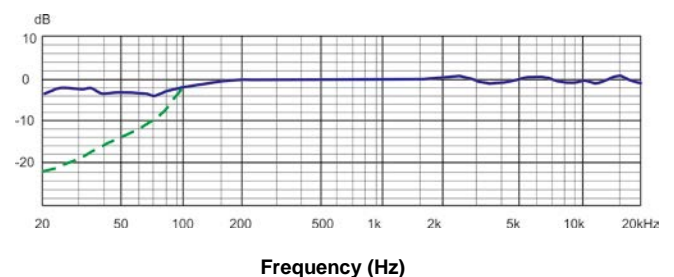
Mechanical

Mounting.....Tabletop
 Dimensions (h x w x d).....68 x 85 x 135 mm (base)
35 x 35 x 232 mm (microphone)
 Weight.....0.6 kg
 Color.....Modern gray (PANTONE Black 7C)

Polar pattern



Frequency response



Ordering Information

TD-1.....Tabletop High Performance Condenser Microphone (column microphone, gold-plated condenser microphone, Ø 22 mm, hypercardioid uni-directional, low-cut, optional key function, 3-pin XLRM-type output, with 2-metre cable, modern gray)

DIP Switch settings:

Function	Description	DIP switch settings
LED ring On	Enable Microphone LED ring	LED ON (Factory default)
LED Ring Off	Disable Microphone LED ring	LED OFF
Push to Talk	Press and hold switch to active microphone; release switch to mute	MON+PTT+ Manual
Push to Mute	Press and hold switch to temporarily mute microphone; release switch to active	MON+PTM+ Manual
Push On/Push Off	Press switch to turn on microphone; Press switch again to turn off microphone;	TOG+PTT+ Manual: for muted initial state (Factory default)
		TOG+PTM+ Manual: for active initial state
Automatic mode	GPIO input is connected to low level, Microphone switch action result: Press the switch, GPIO output low level (0V) Release the switch, GPIO output high level (4-5V)	Automatic

Note: The GPIO input & output line are hidden inside the XLR connector. In automatic mode, the cable needs to be drawn out. The GPIO input line is orange (connects to the logic ground of an automatic mixer, switch or other equipment) and the GPIO output line is white (connects to various logical inputs for custom functions).

TD-1B Tabletop Microphone Base



Features

- Delicate and elegant structural design, fashionable modern gray color scheme, ergonomic and highly modern
- 3-pin XLRF-type socket as microphone input; 3-pin XLRM-type connector with 2-meter long cable on the rear as microphone signal output
- It can be widely used in meetings, lectures, teaching and on other occasions when cooperating with TD-1C series high performance condenser microphone
- Complementary to other 3-pin XLRM-type microphone devices
- With ON/OFF button. When pressing the ON/OFF button, the red LED indicator lights up, and the microphone is activated, press ON/OFF button again to turn off the microphone

Technical Specifications

Electrical

Input connector.....3 XLRF-type
 Output connector.....3 XLRM-type with 2-meter long cable
 Indicator light.....ON/OFF button with red LED
 Phantom power requirements.....DC 24 V - 48 V, 3 mA
 Insertion loss.....1 dB (150 Ohm input resistance)
 Output impedance.....380 Ohm

Mechanical

Installation.....Tabletop
 Dimensions (h x w x d).....40 x 85 x 135 mm
 Weight.....0.5 kg
 Color.....Modern gray (PANTONE Black 7C)

Ordering Information

TD-1B.....Tabletop High Performance Microphone Base
 (3-pin XLRM-type output, with 2-metre cable,
 with self-lock button, modern gray)