

# User Manual



**IP Network Wall Mounted Terminal TCI-IP505U**

## Safety Instructions

1. Read these instructions, retain and follow these instructions, heeding all warnings.
2. Please install the equipment according to manufacturer's instructions.
3. Do not install the equipment near any heat source, such as radiators, heat storage devices, stoves and other heating equipment.
4. Do not expose the equipment to water leakage or splashing water environment
5. Do not place any dangerous source on this product (such as containers filled with liquids or lit candles, etc.).
6. Please use attachments/accessories specified by the manufacturer.
7. Prevent the power cord from being stepped on or squeezed; especially at plugs, power sockets, and equipment power cord outlets
8. Please unplug the power plug of the product during lightning weather or when it is not used for long time.
9. Please clean the dust on the product, power plug, and socket regularly.
10. All maintenance should be performed by qualified maintenance personnel. Servicing is required when the product has been damaged in any way, such as the power cord or plug is damaged, liquid has been spilled on the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.

# Product Description

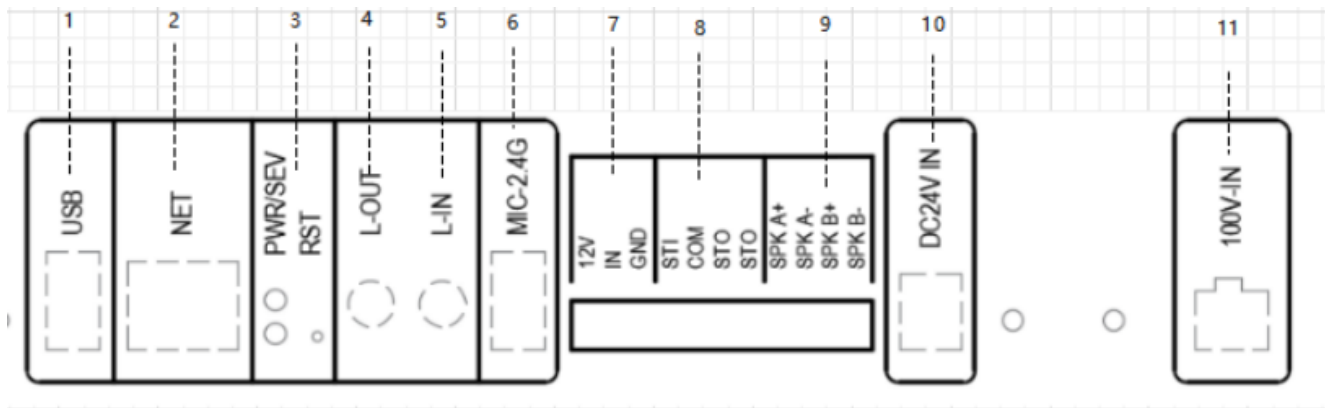
## Product overview

Suitable for schools, office buildings, conference centers, alarm centers, station lounges and other places where sound reinforcement is required. Using network digital transmission, it can play the background music set in the system, schedule the bell task, collect the sound source, one-way call and other functions.

## Features

1. Embedded Linux system, offering excellent stability and security.
2. Utilizes high-end ARM architecture chip set.
3. Supports two external 2x15W 8-ohm speakers.
4. Metal housing, wall-mountable, easy to install, simple and practical, yet elegant and beautiful.
5. Volume control via IP network broadcasting software or mobile client.
6. Supports real-time network playback, scheduled playback, paging, and receiving system terminal broadcasts.
7. Features a hard reset button for one-click configuration restoration.
8. Features an LED status indicator for easy troubleshooting.
9. Supports remote online terminal program upgrades, facilitating project maintenance and management.
10. Highly fault-tolerant in weak network environments, capable of normal operation with a packet loss rate of <5% and human voice detection with a packet loss rate of <20%.
11. Using a proprietary protocol, real-time audio latency is < 100ms, media playback is < 50ms, and multi-terminal playback is highly synchronized.
12. Supports one short-circuit input signal and one short-circuit output signal, with alarm linkage.
13. Supports external microphones for ambient sound monitoring and recording.
14. Supports local USB flash drive playback.
15. Supports one local line input and one network audio line output.
16. Optional 100V backup and 2.4G local sound amplification.
17. Priority: Alarm task > Network audio > Local output.

## Interface Description



1. USB slot
2. RJ45 network interface
3. Power indicator/status indicator/reset button
4. Line out interface
5. Line in interface
6. 2.4G receiving module interface (optional)
7. Pickup device interface
8. Short-circuit input/output interface
9. Amplifier output interface
10. Power input
11. 100V backup (optional)

## Technical Parameters

Model	TCI-IP505U
Sampling Rate	8K ~ 48KHz
Network Transmission Rate	100Mbps
Audio Mode	16-bit Stereo CD Sound Quality
Output Frequency	80Hz ~ 16KHz
Harmonic Distortion	≤10%
S/N Ratio	≥80dB
Rated Power	2x15W (8Ω)
Power Supply	DC 24V/2A
Installation Form	Wall-mounted
Weight	1KG
Dimensions	253(W)*167(D)*45(H)mm



**CAUTION:** Do not open the equipment cover arbitrarily, so as not to electric shock. Please contact the professionals to maintain if necessary.