



## HD Video Terminal NT90MT (MT04)

### Embedded software: HD video conference terminal embedded software V2.0



## Description

The brand-new integrated HD video conference terminal integrates a 4K HD camera and a microphone, featuring exquisite appearance and excellent performance. It supports H.265 technology and achieves ultra HD effects with ultra-low bandwidth. The simple installation method of the terminal makes it suitable for various small and medium meeting venues.

## Feature

- \* Adopt an integrated structure, built-in hardware video processing unit and integrated 4K HD camera; embedded Linux operating system, non-Windows/Android operating system; built-in hardware video processing unit.
- \* Support ITU-T H.323, SIP standard protocol, with good compatibility; support H.239, BFCP dual-stream protocol; support mainstream up to 4K, and auxiliary stream 1080P.
- \* Support 64Kbps-8Mbps call bandwidth; support CIF, 4CIF, 720P, 1080P, 4K video resolution.
- \* Support 1280\*720 60fps/50fps/30fps/25fps, 1920\*1080 60fps/50fps/30fps/25fps HD video signal input.
- \* Support 1024\*768 60fps, 1280\*720 60fps, 1920\*1080 60fps/30fps, 3840\*2160 60fps/30fps HD video signal output.
- \* Support H.261, H.263, H.263+, H.264, H.264 HP, H.265 video codec protocol, support G.711, G.722, G.722.1, G.722.1C, OPUS and other audio codec protocols, the sound quality is up to 48KHz.
- \* Support controlling the terminal through 2.4G remote control, web, touch, mouse and keyboard, etc.
- \* Support turning on and off the remote video flexibly; support dragging and dropping to change the window position of the video in the screen layout by flying mouse.
- \* Adopting B/S management structure, users can log in to WEB for remote management through a browser; support switching between Chinese and English.
- \* No need to register, just enter the meeting number to join the corresponding meeting, and you can choose to join the meeting in the interactive mode or live mode.
- \* Support the chairman control mode. After applying for the chairman authority, you can control the dual-stream encoding rate, resolution and other parameters of all remote venues; support moving up, down, left, and right, focusing, and zooming operations on the PTZ camera at the remote venue.
- \* The main screen supports the output of 4K signals; a single screen can actively open 25 channels of video screens at the same time, and can display the main and auxiliary stream screens of multiple venues at the same time.
- \* Support single-screen dual-display, dual-screen dual-display application functions, so as to realize multi-screen layout; support picture-in-picture and other common layouts.
- \* Support wireless streaming function; only need to install a software on the computer, connect to the terminal through the network to realize the wireless shared streaming function, no need for external hardware devices.
- \* Supports setting the full-screen display or composite display of the auxiliary stream in the meeting.
- \* Support the annotation function of the auxiliary stream; you can make real-time annotations on the auxiliary stream screen when sending or receiving the auxiliary stream; you can set three brush thicknesses, five brush colors, and annotate graphics such as circles, squares, arrows, and lines; when sending content, you can set whether to open the annotation permission to the participants for interactive annotation.
- \* Support dual-stream bandwidth control of all remote venues; support PTZ control of remote venues.
- \* Supports controlling the speech rights of other terminals in the same meeting.
- \* Equipped with a USB interface, it supports access to USB storage devices; it supports meeting recording function, which can directly record video and audio during the meeting; it supports program upgrades and capture of data packets through USB storage devices.
- \* Support one-click Meet Now on the terminal to quickly create a virtual meeting on the MCU and automatically join the meeting. You can invite the meeting venue to join the meeting on the terminal. The meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- \* Support booking meetings on the terminal. You can select members, set meeting passwords, chairman passwords, live passwords, meeting time, etc. After submission, the MCU will automatically hold the meeting according to the scheduled meeting time; the meeting supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.



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- \* Support the terminal applying for the chairman to switch from the live mode to the meeting mode or from the meeting mode to the live mode for other participating terminals in the meeting. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- \* Support the terminal actively applying to the chairman to switch from the live mode to the meeting mode. With the chairman's approval, it can switch to the meeting mode. The meeting mode supports functions such as electronic whiteboard, file sharing, electronic voting, and meeting sign-in.
- \* Support video polling function, you can choose the polling window, polling interval, and polling personnel; support voice activation function, you can set the voice activation window, and the venue with the loudest speech will automatically switch to this window.
- \* The screen layout supports the auto split screen function, which automatically selects the appropriate layout according to the number of terminals joining the meeting and automatically opens the screen; it supports the autofill function, which selects a fixed screen layout and automatically opens on the idle window after the terminal joins the meeting.
- \* The third-party system supports functions such as adjusting the camera, sending scrolling messages, setting banners, switching screen layouts, and controlling the speech rights of each venue through the API call terminal.
- \* Support 1 HDMI input interface, 2 HDMI output interfaces; 3 audio input interfaces (2\*3.5mm, 1\*HDMI), 2 audio output interfaces (1\*HDMI, 1\*3.5mm).
- \* Integrated camera hardware design, built-in camera 12x optical zoom, 4K ultra HD resolution.
- \* Support IP network packet loss repair mechanism; when 30% network packet loss, the sound is clear and continuous, the video is smooth, no freeze, no mosaic; when 80% network packet loss, the sound is clear and smooth, and can be accurately understood.
- \* With super network adaptability, it can automatically adjust the resolution according to the network, so as to ensure the smoothness of the meeting.
- \* Support the banner function; you can add a banner on the meeting screen, and you can set whether to enable the banner and the font size, font color, and background color of the banner.
- \* Support scrolling message function; you can send scrolling messages, and set whether to enable scrolling messages and the font size, font color, background color and scrolling times of scrolling messages.
- \* Support echo cancellation, noise suppression, silence detection, auto gain function; support broadband voice above 20KHz.
- \* Support inviting to join the meeting; you can see the real-time status of the online contacts; the online and offline status of each meeting venue can be displayed.
- \* Support applying for speaking; you can apply for speech permission from the chairman venue.
- \* Support venue mute and volume off functions; the venue sound output is adjustable.
- \* Support voice priority, support QOS strategy mode.
- \* Support IPV4 and IPV6 protocols, support NAT traversal, and support the ability to cross routers and firewalls to ensure system security.
- \* With good management and maintainability, support local audio and video loop diagnosis function; support one-key local audio and video test; support network ping test on the operation interface; support query of call logs and historical records.
- \* You can view the media information of audio, mainstream video, auxiliary stream video; you can view the protocol, format, bit rate, number of sent and received packets, data amount of sent and received packets, packet loss rate, number of lost packets, jitter, delay, sending and receiving address, encryption or not and other information.
- \* Support web interactive electronic whiteboard function, you can operate electronic whiteboard on the terminal control web, set three brush thicknesses, five brush colors, and annotation graphics such as circles, squares, arrows, lines and so on; you can set solid color background or picture background; when the electronic whiteboard is operated on the web, the terminal output screen will follow and display the content of the electronic whiteboard synchronously. The electronic whiteboard supports pagination, up to 5 pages.
- \* Support setting the delay level of the live broadcast, including three options: smooth, moderate and real-time.
- \* Built-in pickup microphone, the best pickup distance is 3 meters, and the maximum pickup is 6 meters.
- \* Support POE power supply.

## Specification

<b>Model</b>	NT90MT (Mt04)
<b>Video input</b>	1 HDMI video input interface + 1 built-in HD camera input
<b>Video output</b>	2 video output interfaces, HDMI*2
<b>Audio input</b>	3 audio input interfaces, MIC IN*1, LINE IN*1, HDMI*1
<b>Audio output</b>	2 audio output interfaces, HDMI*1, LINE OUT*1
<b>Network interface</b>	1 Gigabit network port, RJ45*1; 1 WIFI network (optional 4G)
<b>USB interface</b>	2 USB2.0 ports, used for connecting extension devices or online upgrades
<b>Display method</b>	Support 4:3 and 16:9
<b>Built-in camera</b>	1/2.3-inch 12MP image sensor, 12x optical zoom, 4K ultra HD resolution, 72.5° horizontal viewing angle
<b>Ambient temperature</b>	0°C~35°C (working state), -40°C~55°C (non-working state)
<b>Relative humidity</b>	10%~80% (working state), 0%~95% (non-working state) (no condensation)



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<b>Dimension (L*W*H)</b>	248mm×154mm×190mm
<b>Weight</b>	2kg
<b>Power supply</b>	DC 12V, support POE, IEEE802.3at standard