TOA

QUICK MANUAL

SIP MULTIMEDIA STATION N-SP80MS2

Thank you for purchasing TOA's N-SP80MS2 SIP Multimedia Station.
Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.



This is a quick manual for the N-SP80MS2.
Be sure to see the separate "N-SP80 Series Instruction Manual" before using the N-SP80MS2.
The latest version of the "N-SP80 Series Instruction Manual" can be downloaded from the TOA product data download site.

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1. SAFETY PRECAUTIONS

- Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation.
- Be sure to follow all the precautionary instructions in this section, which contain important warnings and/or cautions regarding safety.
- After reading, keep this manual handy for future reference.

⚠ CAUTION	Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

- Use the specified AC adapter and PoE switching hub for the unit. Note that the use of another adapter and PoE switching hub may cause a fire.

2. GENERAL DESCRIPTION

The N-SP80MS2 is a touch-panel type Multimedia station using Google's Android platform designed for use in combination with the SIP (Session Initiation Protocol) Intercom system. The station can be used not only in SIP server mode but also in peer-to-peer mode: the former enables the station to work by connecting to the SIP server and the latter enables it to work without using the SIP server.

Note: Android is a trademark of Google Inc.

3. FEATURES

- Fully compliant with SIP.
- Connected to the network via Ethernet.
- Supports 2 ways of connection: Connection to the SIP server using SIP and peer-to-peer connection.
- Supports the following audio codecs: G.711, G.722, G.729, L16, and Opus.
  (Audio codec is fixed to G.722 when in peer-to-peer connection.)
- Can be powered by means of PoE or from the DC power supply unit.
- Easy to operate on the screen thanks to a touch panel and GUI (Graphical User Interface) design, and in addition, usable as a telephone by intuitive dial operation with a ten-key pad.
- Selectable one of 3 conversation methods: handset conversation, hands-free conversation, and headset conversation.
- Easy conversations between stations even under high noise environment.

4. HANDLING PRECAUTIONS

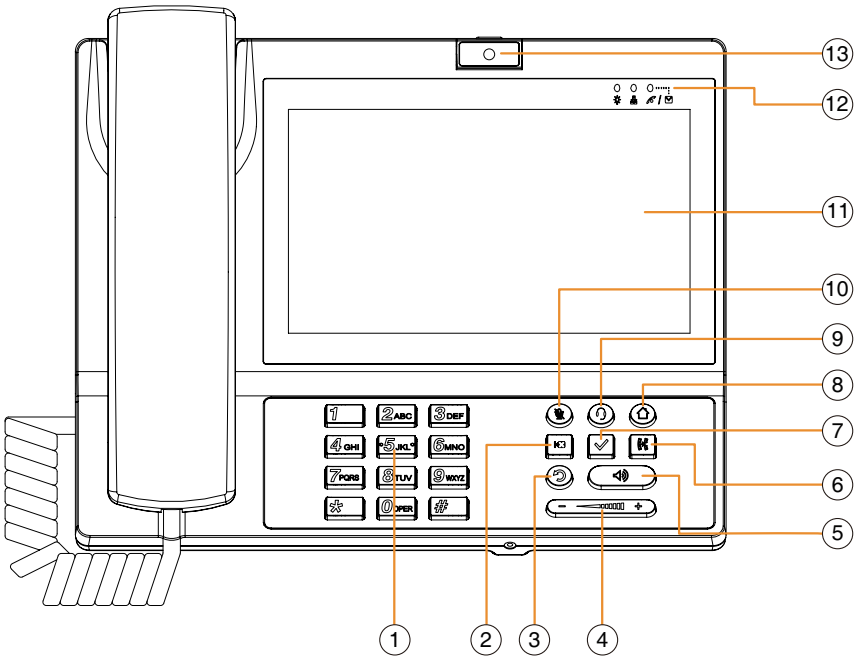
The transmission quality of the internet is not always guaranteed. Therefore, when this system is connected via the internet, the following symptoms may happen when thenetwork is congested.

- Packet loss
- Interruption of speech voice
- Generation of noise

5. NOMENCLATURE AND FUNCTIONS

- Desktop design
- Handset, Hands-free (with AEC function), Headset connectable
- Built-in touch panel
- PoE-compatible (IEEE802.3af compliant)
- Built-in camera

[Front]



1. Number Pad
Used to enter the numbers.

2. Delete button
Deletes one by one the dial numbers entered when making a call or the characters entered when registering.

3. Back button
Returns the display to the last screen you viewed.

4. Volume control button
Adjusts the volume level of the built-in speaker.

5. Speaker button
Press this button to start hands-free conversation.

6. Call Transfer button
Starts the transfer function during conversation. (Only when in the SIP server mode).

7. Enter button
Confirms the selection on the screen while in the touch panel operation.

8. Home button
Returns the display to the home screen.

9. Headset button
Press to enable headset mode.

10. Mute button
Mutes the hands-free microphone and the handset microphone.

11. Touch panel
A 7" touch panel screen.

12. Indicators
Indicate the following operation states.

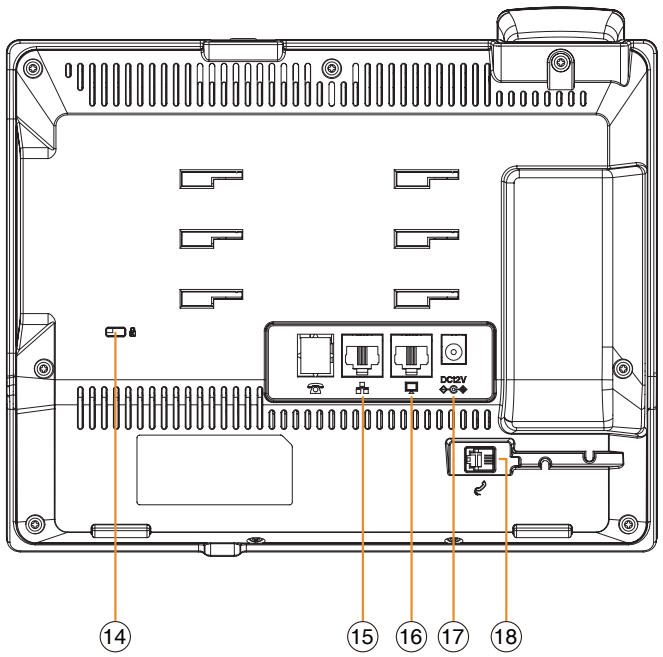
: Indicates the unit's power ON or OFF state. The unit is operating when the indicator islit, and not operating when it is unlit.

: Indicates the network connection state. Connection to a LAN is established when the indicator is lit, and not established when it is unlit.

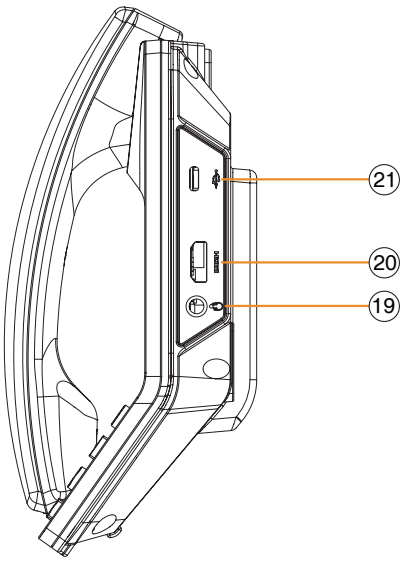
/ : Indicates the absence incoming call/ unread message state. The absence incoming call or unread messages are present when the indicator is flashing, and not present when it is unlit.

13. Camera
A built-in camera with 2 mega pixels. Used when making conversation between multimedia stations.

[Rear]



[Right side]



14. Security slot
Used to connect the security wire such as a theft preventing wire. This is a Kensington lock slot.

15. LAN connection terminal
Connect the LAN cable to this terminal.
This terminal can be connected to PoE switching hub.

16. PC connection terminal
Connect a PC to this terminal.

17. DC input terminal
Connect the AC adapter* to this terminal.

* Use the optional AD-1215P or its equivalent.

18. Handset connection terminal
Connect the handset to this terminal.

19. Headset connection terminal
Connect a headset to this terminal.

20. HDMI connection terminal
Connect an HDMI to this terminal.

21. USB connection terminal
Connect a USB device to this terminal.

6. CONNECTION

[Power supply connection]

Power is supplied from the AC adaptor or the PoE-compatible switching hub. For the power supply from the switching hub, see below "2. LAN connection terminal."

1. DC input terminal

Connect the AC adapter. *

*Use the optional AC adapter AD-1215P or its equivalent. As for the usable adapter, consult your TOA dealer.

> **⚠ CAUTION** The use of the AC adapter other than the specified one may cause a fire.

Tip

If both the AC adapter and the PoE switching hub are connected, the power will be supplied from the one that has started feeding first.

[Switching hub and PC connections]

2. LAN connection terminal

Connect this terminal to the 100BASE-TX-compatible network.
Use the Ethernet RJ-45 connector for connection.

As this terminal can be connected to PoE switching hub, power can be supplied from the PoE switching hub when this terminal is connected to it.
In this case, use the switching hub meeting the following specification.
Specification of the usable PoE switching hub: IEEE802.3af compliant.

> **⚠ CAUTION** When power is supplied from the PoE switching hub, be sure to use the one meeting the specified specification.
> The use of the switching hub other than the specified one may cause a fire.

Tip

If both the AC adapter and the PoE switching hub are connected, the power will be supplied from the one that has started feeding first.

3. PC connection terminal

Connect a PC to this terminal.
Use the Ethernet RJ-45 connector for connection.
This terminal can also be connected to the 100BASE-TX-compatible network.

Note

This terminal is not PoE-compatible.

[Other connections]

4. Handset connection terminal
Connect the supplied handset to this terminal.

5. Security slot
Connect a commercially available theft preventing wire to this slot as needed. This is a Kensington lock slot.

[USB device connection]

6. USB connection terminal
Connect a USB device such as a USB memory to this terminal. This terminal is USB 2.0 compatible.

[Headset connection]

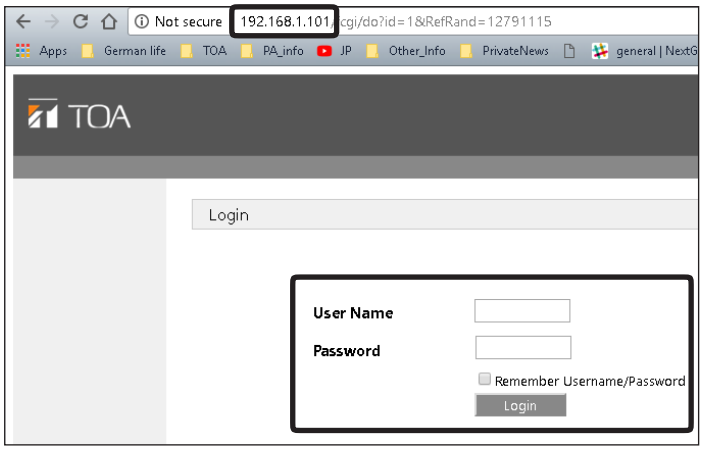
7. Headset connection terminal
Connect a headset to this terminal.
Usable headset: 16 / 32 Ω, 3.5 mm (0.14") dia. mini plug (3 pins).

7. SYSTEM SETTING USING A BROWSER

A browser is required to access the system settings to activate unit. The N-SP80MS2 is set to DHCP by default. The IP address can be viewed by selecting the "Setting" icon on the unit's touch panel and viewing the address on the “Status Info” tab. Connect to the unit's Web server by using the IP address. User name and password settings are as follows.

User name: admin
Password: admin
The password can be changed.
Enter it with up to 63 characters.

Notes
• Unusable characters: & % ‘ =
• Password is case-sensitive.



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