

MULTI INTERFACE UNIT

N-8000MI CE, N-8000MI CE-GB

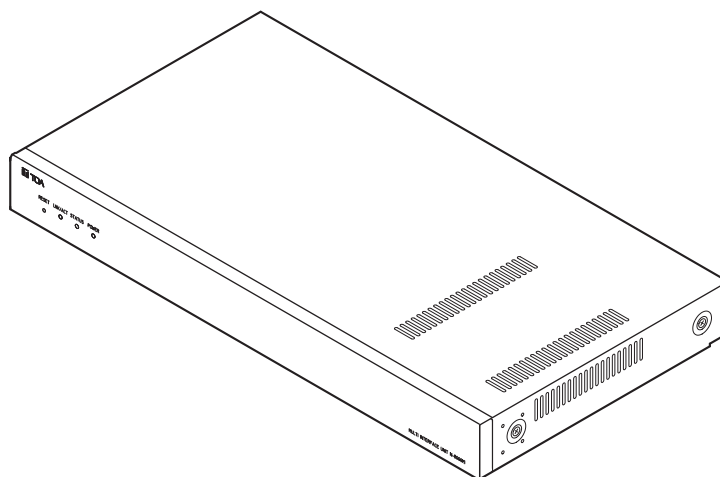


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Thank you for purchasing TOA's Multi Interface Unit.

Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

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.

Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety hazards.

WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

When Installing the Unit

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.
- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down and causing personal injury and/or property damage.

When the Unit is in Use

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest TOA dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
- If you detect smoke or a strange smell coming from the unit.
- If water or any metallic object gets into the unit
- If the power supply cord is damaged (exposure of the core, disconnection, etc.)
- If it is malfunctioning (no tone sounds.)
- To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest TOA dealer.

- Do not touch a plug during thunder and lightning, as this may result in electric shock.

CAUTION

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

When Installing the Unit

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.
- Be sure to follow the instructions below when rack-mounting the unit. Failure to do so may cause a fire or personal injury.
- Install the equipment rack on a stable, hard floor. Fix it with anchor bolts or take other arrangements to prevent it from falling down.
- To rack-mount the unit, use the supplied rack mounting hardware.
- When connecting the unit's power cord to an AC outlet, use the AC outlet with current capacity allowable to the unit.

When the Unit is in Use

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Do not stand or sit on, nor hang down from the unit as this may cause it to fall down or drop, resulting in personal injury and/or property damage.

This device is a Class I product.

Connect the supplied power cord only to the AC outlet with a ground terminal. Doing otherwise may result in electric shock.

CONSEILS DE SÉCURITÉ

- Avant l'installation ou l'utilisation, lire attentivement l'ensemble des instructions de cette section pour un fonctionnement correct et sûr.
- Veiller à respecter les précautions recommandées dans cette section, laquelle contient des mises en garde et/ou précautions importantes en matière de sécurité.
- Après lecture, conserver ce manuel à portée de main pour consultation ultérieure.

Symboles de sécurité et conventions

Les symboles et messages de sécurité décrits ci-dessous sont utilisés dans cette notice pour prévenir tout dommage corporel ou matériel pouvant résulter d'une mauvaise utilisation. Lire attentivement cette notice pour comprendre parfaitement les symboles et messages de sécurité afin de prévenir tout risque éventuel.



AVERTISSEMENT

Indique une situation risquant d'entraîner des blessures graves, voire la mort, en cas de mauvaise manipulation.

Lors de l'installation de l'appareil

- Ne pas exposer l'appareil à la pluie et le protéger de tout contact avec de l'eau ou d'autres liquides afin d'éviter un incendie ou une électrocution.
- Utilisez l'appareil uniquement avec la tension spécifiée sur le chargeur. L'utilisation d'une tension supérieure à celle spécifiée peut être à l'origine d'un incendie ou d'une électrocution.
- Ne pas couper, entortiller, modifier ou endommager le cordon d'alimentation. En outre, éviter d'utiliser le cordon d'alimentation à proximité d'un radiateur et ne jamais placer d'objets lourds (y compris l'appareil lui-même) sur le cordon d'alimentation, car ceci présente un risque d'incendie ou d'électrocution.
- Évitez d'installer ou de monter l'unité dans un endroit instable, tel qu'une table bancale ou une surface inclinée pour prévenir toute chute susceptible de provoquer une blessure corporelle et/ou une dégradation matérielle.

Lors de l'installation de l'appareil

- En cas de survenue des irrégularités suivantes pendant l'utilisation, débrancher immédiatement la fiche du cordon d'alimentation de la prise secteur et contacter le représentant TOA le plus proche. Ne pas essayer pas d'utiliser l'appareil dans ces conditions sous peine de provoquer un incendie ou une électrocution.
 - Détection de fumée ou d'une odeur inhabituelle émanant de l'appareil.
 - Pénétration d'eau ou d'un objet métallique dans l'appareil
 - Dégradation du cordon d'alimentation (âme du câble dénudée, déconnexion etc.).
 - Dysfonctionnement (absence de tonalité).
- Pour empêcher un incendie ou une électrocution, ne jamais ouvrir ni ne retirer le boîtier de l'appareil, en raison de la présence de pièces à haute tension. La maintenance de l'appareil doit être confiée au revendeur TOA le plus proche.
- Ne pas toucher la fiche du cordon d'alimentation pendant un orage - Risque d'électrocution.



ATTENTION

Indique une situation risquant d'entraîner des blessures moyennement graves ou mineures, et/ou des dommages matériels.

Lors de l'installation de l'appareil

- Ne jamais brancher, ni débrancher la fiche du cordon d'alimentation avec les mains mouillées. Risque d'électrocution.
- Pour débrancher le cordon d'alimentation, veiller à le tenir par sa fiche ; ne jamais tirer directement le cordon. Utiliser l'appareil avec un cordon d'alimentation endommagé peut présenter un risque d'incendie ou d'électrocution.
- Ne pas obstruer les fentes de ventilation sur le capot de l'unité sous peine de provoquer une accumulation de chaleur à l'intérieur de l'appareil, pouvant aboutir à un incendie.

- Respecter les instructions ci-dessous pour monter l'appareil en bâti. Risque d'incendie ou de blessure corporelle.
- Installer le bâti sur un sol stable. Le fixer à l'aide de boulons d'ancrage ou prendre des mesures pour empêcher qu'il ne chute.
- Utilisez le matériel de montage fourni pour monter l'unité en bâti.
- Pour brancher le cordon d'alimentation à une prise CA, vérifier l'intensité maximale de l'appareil.

Pendant l'utilisation de l'appareil

- Ne pas placer d'objets lourds sur l'appareil sous peine de le faire tomber ou de le rompre, ce qui présente un risque de blessures corporelles et/ou de dommages matériels. Par ailleurs, l'objet lui-même peut tomber et provoquer des blessures et/ou dégâts.
- Ne pas placer d'objets lourds sur l'appareil sous peine de le faire tomber, ce qui présente un risque de blessures corporelles et/ou de dommages matériels.

2. GENERAL DESCRIPTION

The N-8000MI is a multi interface unit designed for use with TOA's packet intercom system (IP network-compatible intercom system) that employs the packet audio technology*. Connecting the multi interface to a local area network permits the ideal system for in-house or wide-area information transmission applications, such as paging, periodical broadcasts, and background music broadcasts, to be built between the multi interface and IP intercom exchange or other multi interface unit. The contact bridge function can be realized through contact input and output control.

* Technology related to audio transmission over a network.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

DESCRIPTION GÉNÉRALE

L'unité N-8000MI est une multi-interface conçue pour une utilisation avec le système intercom par paquets de TOA (système intercom compatible avec un réseau IP) utilisant la technologie de paquets audio*.

Le branchement d'une multi-interface à un réseau local constitue le système idéal pour l'installation d'applications de transmission d'informations en interne ou au sein d'une zone détendue (notifications, appels périodiques, diffusion de musique de fond) entre la multi-interface et le central intercom IP ou une autre unité multi-interface. La fonction de pont de contact peut être mise en place via une entrée de contact et un contrôle de la sortie.

* Technologie de transmission audio sur un réseau.

Avertissement

Cet équipement est un produit de classe A. En environnement domestique, ce produit peut provoquer des interférences radio.

3. FEATURES

- N-8000MI units can be distributed over a data communications network.
- Can be connected to an existing local area network (LAN) or wide-area network (WAN). The unit can also be easily connected to fiber-optic networks without restrictions on operating distance.
- The dedicated software program enables centralized control with a personal computer.
- System maintenance (verifying operation log and Line supervision) can also be performed with a personal computer and Internet browser.
- Can be connected to the Exchange of the EXES-2000 or EXES-6000 Intercom System by a tie-line, or the PBX exchange via the OD (out-band-dialing) trunk.
- The unit can interlock with an electronic lock system or CCTV surveillance system by way of contact input/output control function.

CARACTÉRISTIQUES

- Les unités N-8000MI peuvent être distribuées sur un réseau de communication de données.
- Peut être connecté à un réseau local (LAN) ou étendu (WAN) existant. L'unité peut aussi facilement être connectée à un réseau fibre optique, ce qui évite toute restriction sur la distance des stations.
- Logiciel dédié permettant un contrôle centralisé à partir d'un PC.
- La maintenance du système (vérification du journal d'opérations et supervision des lignes) peut aussi intervenir via un ordinateur personnel et un navigateur Internet.
- Peut être connecté au central du système intercom EXES-2000 ou EXES-6000 à l'aide d'une ligne de jonction, ou au central PBX via la ligne principale à composition hors bande.
- Il est possible d'assurer une interface entre l'unité et un système de verrouillage électronique ou un système de caméra de surveillance via la fonction de contrôle de l'entrée/sortie de contact.

4. SPECIFICATIONS

Number of Units

Connectable to LAN:

Maximum 192 (a total of Exchanges and Multi Interface Units)

Speech Link Capacity

2 links

Speech (through the PBX or tie-line): Maximum 2 links

Audio input: Maximum 2 links

Audio output: Maximum 2 links

Note

The above links can be simultaneously used.

(Refer to the table in the next page.)

Simultaneous access capacity for paging links

Multicast paging: Maximum 2 links

Unicast paging: 1 link

Paging Zones:

Maximum 384 (With 192 Multi Interface Units)

Paging Zone Via Network:

Maximum 191 (Multicast paging), Maximum 16 (Unicast paging)

BGM Input:

Maximum 8 channels (Number of inputs per exchange)

PBX Interface:

Maximum 384 (When 192 Multi Interface Units are connected)

Tie-line Interface:

Maximum 384 (When 192 Multi Interface Units are connected)

External Contact Output:

Maximum 384 (When 192 Multi Interface Units are connected)

External Contact Input:

Maximum 384 (When 192 Multi Interface Units are connected)

System Settings:

Personal computer setting using a dedicated software program (over LAN)

(Network Related)

Voice Delay Time:

80 or 320 ms, selectable

Connection Delay Time:

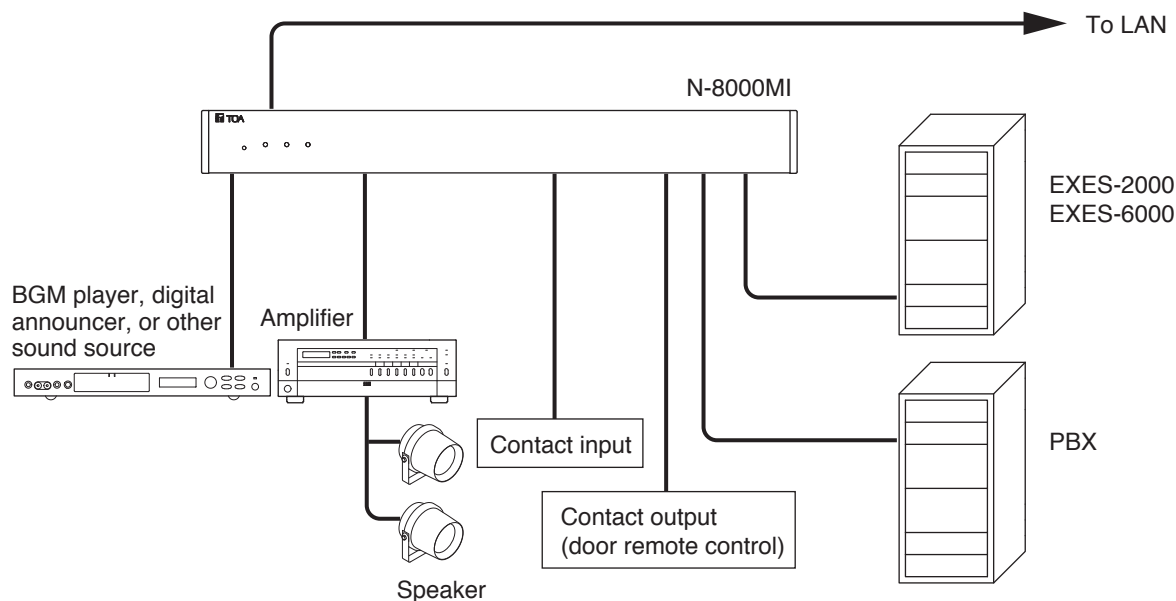
Maximum 1 second (When multicast paging is made to 191 zones)

Usage Bandwidth:

Maximum 2.08 Mbps (one way)/When 16 Unicast paging are made

Maximum 130 kbps (two-way)/one call

5. SYSTEM CONFIGURATION EXAMPLE



Having 2 channels each for audio input and output, and 16 contacts each for control input and output, the N-8000MI performs the following interface functions*.

- Tie-line interface for connection with the EXES-2000 and EXES-6000 systems.
- PBX interface for connection with the PBX via the OD trunk.
- PA paging interface for connection with PA equipment
- External input broadcast interface for connection with a music player (chime unit) or paging microphone irrespective of with or without remote control function.
- Interface to control an indicator or external equipment such as a CCTV's switcher using relay contacts.

The N-8000MI also features Network interface for connection with an IP intercom exchange or other multi interface unit.

* The interface functions can be combined in the following 9 patterns.

Interface function	Combination pattern								
	1	2	3	4	5	6	7	8	9
PBX 1	✓	✓	✓	—	—	—	—	—	—
PBX 2	✓	—	—	✓	✓	—	—	—	—
Tie-line 1	—	—	—	✓	—	✓	✓	—	—
Tie-line 2	—	✓	—	—	—	✓	—	✓	—
Audio output 1	—	—	—	—	✓	—	—	✓	✓
Audio output 2	—	—	✓	—	—	—	✓	—	✓
Audio input 1	—	—	—	—	✓	—	—	✓	✓
Audio input 2	—	—	✓	—	—	—	✓	—	✓
Contact IN/OUT	✓	✓	✓	✓	✓	✓	✓	✓	✓

6. NOMENCLATURE AND FUNCTIONS

[Front]



1. Reset key [RESET]

Pressing this key reactivates the exchange.

2. LNK/ACT indicator [LNK/ACT] (Green)

Lights when connected to a network, and flashes while transmitting or receiving data.

3. Status indicator [STATUS] (Red)

Continuously lights while data is written to an internal storage medium (FlashMemory).
Flashes if there is a failure.

4. Power indicator [POWER] (Green)

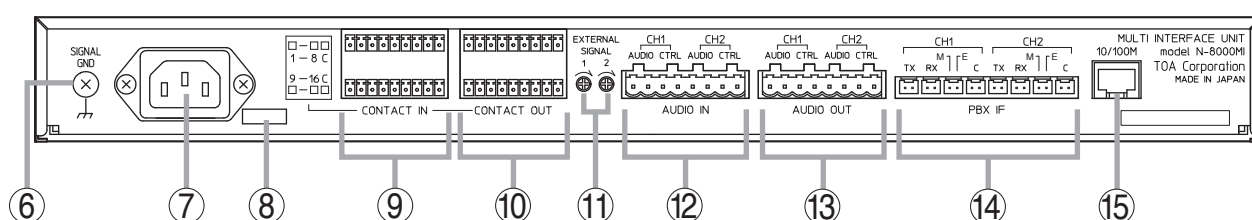
Lights when power is supplied to the unit.

5. MAC address

This is the address*¹ used by the unit. Since the relationship of each exchange location to its MAC address is established when setting the network attributes, keep track of this relationship for later use.

*¹ The inherent address assigned to each network component, expressed in 12-digit hexadecimal notation.

[Rear]



6. Functional earth terminal [SIGNAL GND]

Be sure to ground this terminal unless the unit connects to a PBX.

Note: This terminal is not for protective earth.

7. AC inlet

Connects the supplied power cord.

8. Cord clamp

Pass the power cord through this clamp to ensure that the plug does not pull out.

9. Contact input terminals [CONTACT IN]

No-voltage make contact inputs.
Short-circuit current: 10 mA, Open-circuit voltage: 12 V

10. Contact output terminals [CONTACT OUT]

Relay contact outputs.
Withstand voltage: 24 V DC, Control current: Maximum 0.5 A

11. Audio input level controls [EXTERNAL SIGNAL 1, 2]

Use these controls to adjust the audio input levels for channels 1 and 2 according to the input sources.

12. Audio input terminal [AUDIO IN]

Includes audio inputs (maximum 0 dB*², over 10 kΩ, balanced) and contact inputs (no-voltage make contact, short-circuit current: 10 mA, open-circuit voltage: 12 V).

13. Audio output terminal [AUDIO OUT]

Includes audio outputs (maximum 0 dB*², under 600 Ω, balanced) and control outputs (relay contact withstand voltage: 24 V DC, control current: maximum 0.5 A).

14. PBX interface terminal [PBX IF]

Connects to the Exchange of the EXES-2000 or EXES-6000 system by a tie-line, or the PBX exchange via the OD (out-band-dialing) trunk.

15. Network connection terminal [10/100M]

Connects to a 10BASE-T- or 100BASE-TX-compatible network. (Ethernet RJ45 jack)

*² 0 dB = 1 V

7. INSTALLATION

The N-8000MI can be installed in any of two ways: Equipment rack mounting and Desk-top installation.

7.1. Equipment Rack Mounting

- A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
 - B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
 - C) Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
 - D) Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
 - E) Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips)."
-
- A) Température ambiante élevée - si l'appareil est installé dans un bâti fermé ou en même temps que d'autres appareils, la température à l'intérieur risque de devenir supérieure à la température ambiante. Par conséquent, veiller à installer l'équipement dans un environnement compatible à la température ambiante maximum spécifiée par le fabricant.
 - B) Débit d'air réduit - L'installation de l'équipement en bâti ne doit pas compromettre le débit d'air nécessaire à une utilisation sûre de l'équipement.
 - C) Charge mécanique - Le montage de l'équipement en bâti ne doit pas entraîner de danger dû à une surcharge mécanique inégale.
 - D) Surcharge du circuit - rester vigilant lors de la connexion de l'équipement au circuit d'alimentation et aux conséquences d'une surcharge des circuits sur la protection contre les surintensités et les câbles d'alimentation. Tenir compte des indications de la plaque nominale de l'appareil.
 - E) Veiller à toujours garantir l'intégrité de la prise de mise à la terre. Faire particulièrement attention aux connexions d'alimentation en dehors des branchements directs au circuit de dérivation (par exemple à l'aide de multiprises).

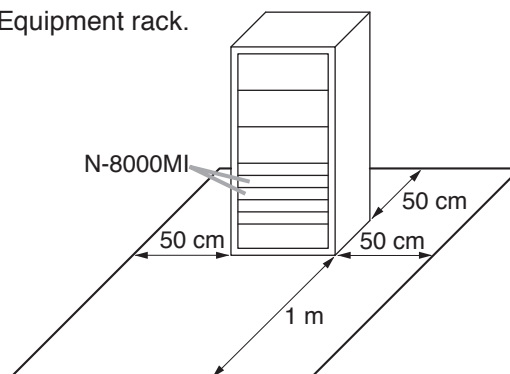
The N-8000MI can be mounted on the CR-273 or CR-413 or standard EIA 19" Equipment rack.
For the CR-273 and CR-413 Equipment rack assembly, read the installation manual supplied with the rack.

Note

When installing the N-8000MI, lay the equipment rack down face-up to do installation work safely.

7.1.1. Setting space

For maintenance works, allow much space between the wall and Equipment rack.



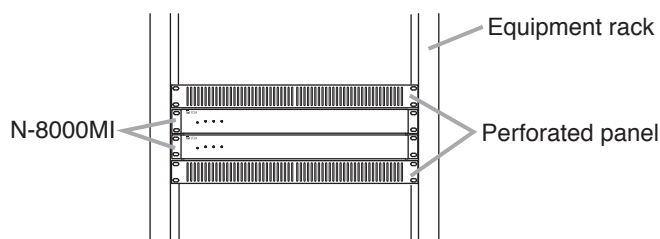
7.1.2. Caution when installing the unit



CAUTION

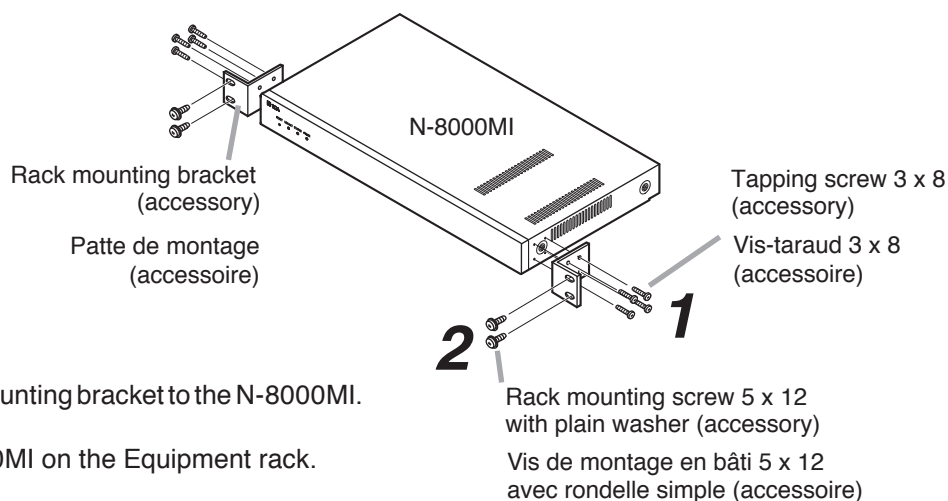
Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.

Do not stack up 3 units or more. If 2 or more units are mounted in the Equipment rack, be sure to mount the perforated panel of 1 U size (PF-013B) or more above and below every 2 units.



7.1.3. N-8000MI mounting

Montage du N-8000MI



Step 1. Install the rack-mounting bracket to the N-8000MI.

Step 2. Mount the N-8000MI on the Equipment rack.

Étape 1. Installez la patte de montage en bâti sur l'unité N-8000MI.

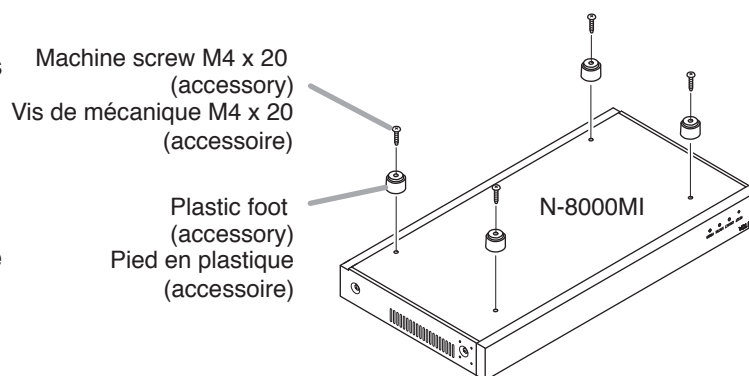
Étape 2. Montez l'unité N-8000MI en bâti.

7.2. Desk-Top Installation

When installing the N-8000MI on a desk, secure the supplied plastic feet to the unit's bottom using the supplied tapping screws.

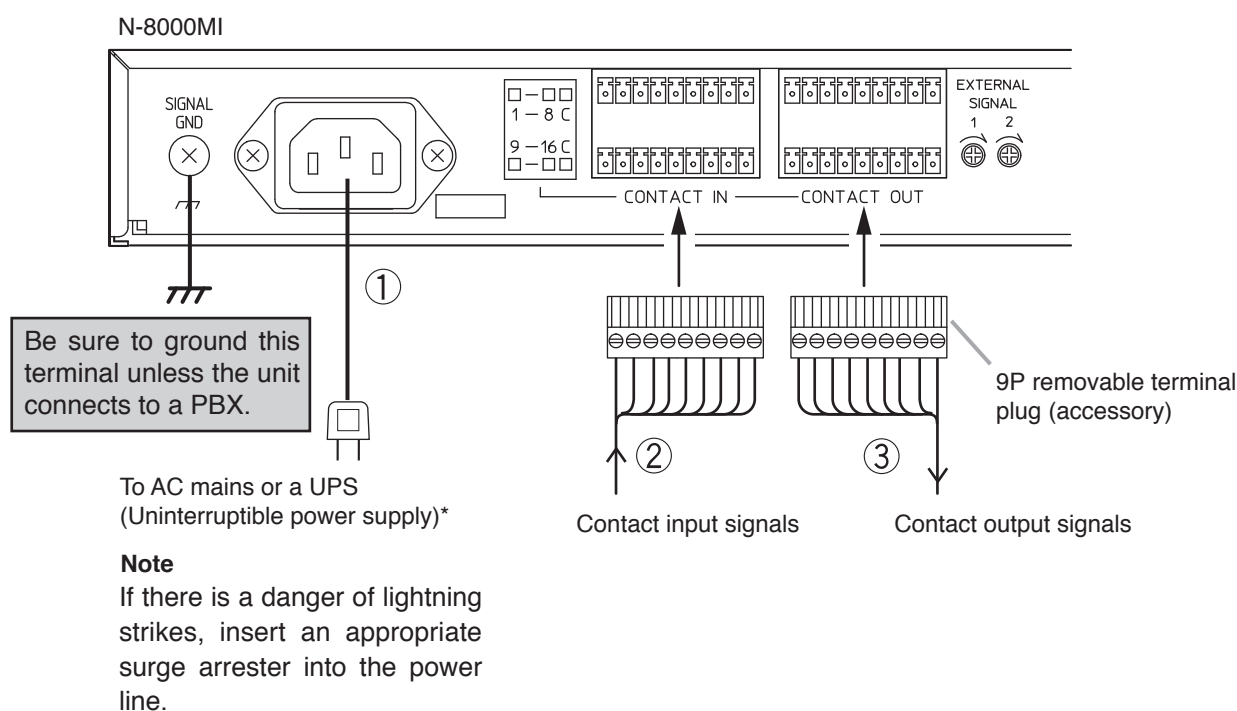
Installation sur un bureau

Pour installer l'unité N-8000MI sur un bureau, installez les pieds en plastique fournis sur le fond de l'appareil à l'aide des vis fournies.



8. WIRING

8.1. Connection Diagram



[General description of connection]

For cables, refer to p. 15.

1. Power supply connection

Connect the supplied power supply cord to AC Mains or a UPS (Uninterruptible power supply).

About power supply cord handling

The supplied power supply cord is designed for exclusive use with the N-8000MI.

Use the supplied power supply cord only with the N-8000MI.

2. Contact input terminal connection

(Refer to p. 15, "Connector Connection.")

[Specification of no-voltage make contact input]

Short-circuit current: 10 mA

Open-circuit voltage: 12 V

3. Contact output terminal connection

Contact output terminals have no polarity. (Refer to p. 15, "Connector Connection.")

[Specification of relay contact output]

Withstand voltage: 24 V DC

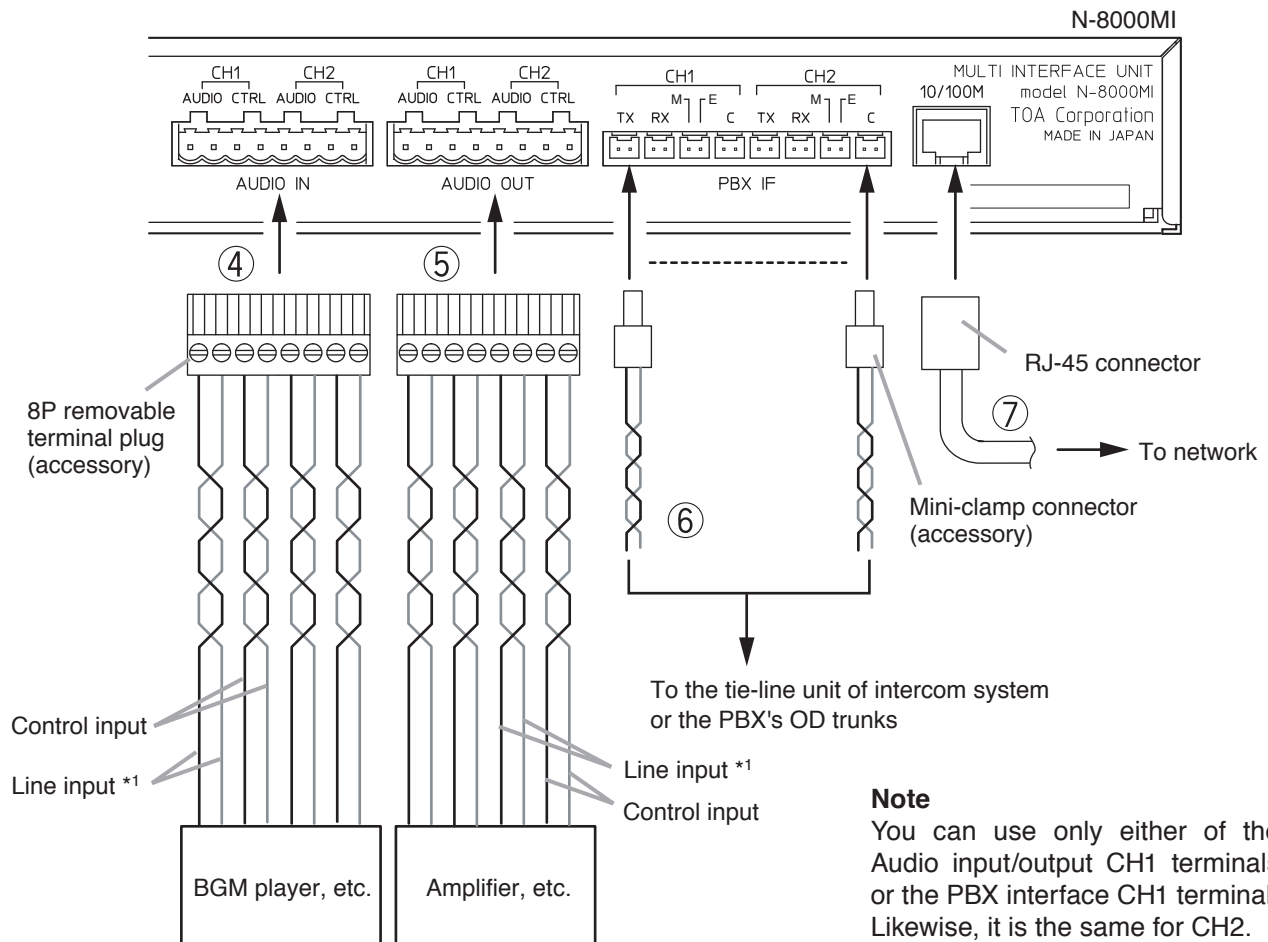
Control current: Max. 0.5 A

* Select an appropriate UPS taking into consideration the total power consumption of all system components and the required backup time, and also the requirement that the UPS should employ the on-line power system.

Reference

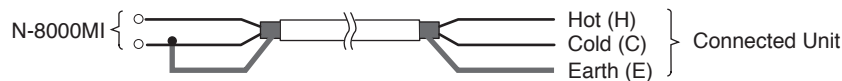
Multi Interface Unit: Maximum 19 W.

8-Port 10M/100M Switching Hub: 10 W (Differs depending on products.)

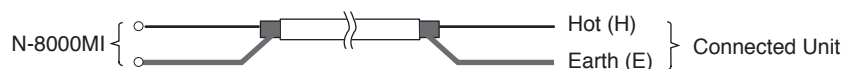


*1 Connect the Line input cables in a way as shown below according to the type of connected unit's input or output.

• Connecting to a balanced input or output



• Connecting to an unbalanced input or output



4. Audio input terminal connection

Audio input terminals have no polarity.
(Refer to p. 16, "Terminal plug connection.")

[Specification of audio input]

Max. 0 dB*², over 10 kΩ, balanced

[Specification of control input]

No-voltage make contact

Short-circuit current: 10 mA

Open-circuit voltage: 12 V

5. Audio output terminal connection

Audio output terminals have no polarity.
(Refer to p. 16, "Terminal plug connection.")

[Specification of audio output]

Max. 0 dB*², under 600 Ω, balanced

[Specification of control output]

Relay contact

Withstand voltage: 24 V DC

Control current: Max. 0.5 A

6. PBX interface terminal connection

Differs depending on the connections to the Exchange of the EXES-2000 or EXES-6000 by a tie-line, or to the PBX exchange via the OD (out-band-dialing) trunk.

(Refer to p. 15, "Connector Connection.")

7. Network connection

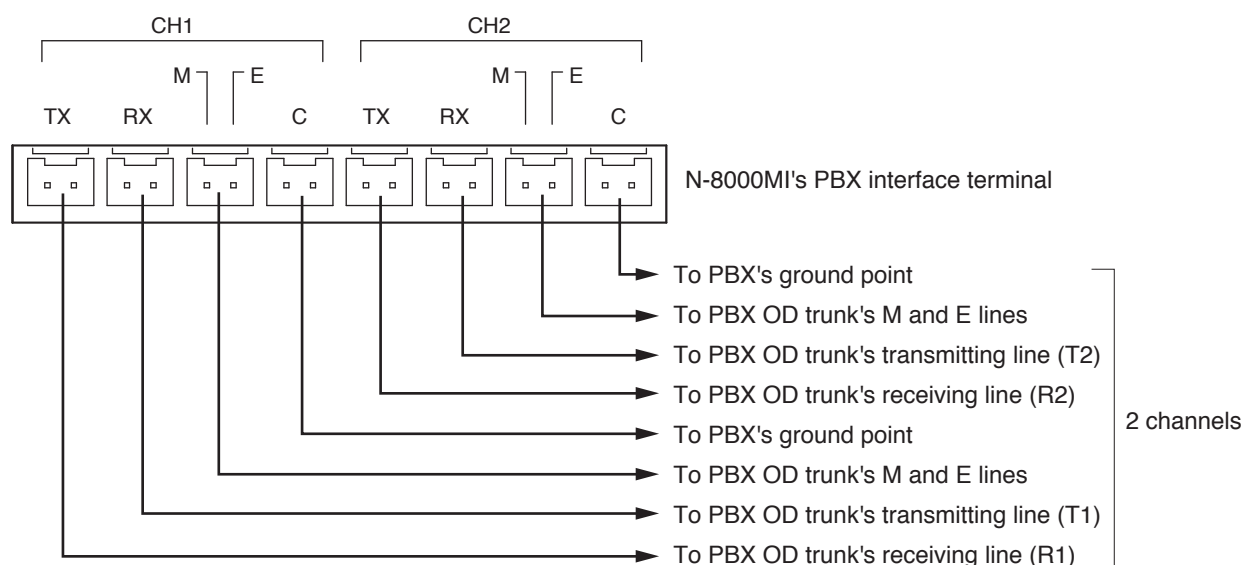
Can be connected to a network of 10BASE-T/100BASE-TX in auto-sensing.

Use a UTP category 5 straight-through cable for this connection.

*² 0 dB = 1 V

[Connecting to the PBX's OD trunk]

Connect the PBX's transmitting line to the unit's RX terminal, and the PBX's receiving line to the TX terminal. Also connect the PBX's M (Mouth) line to the unit's E (Ear) terminal, and the PBX's E line to the M terminal.

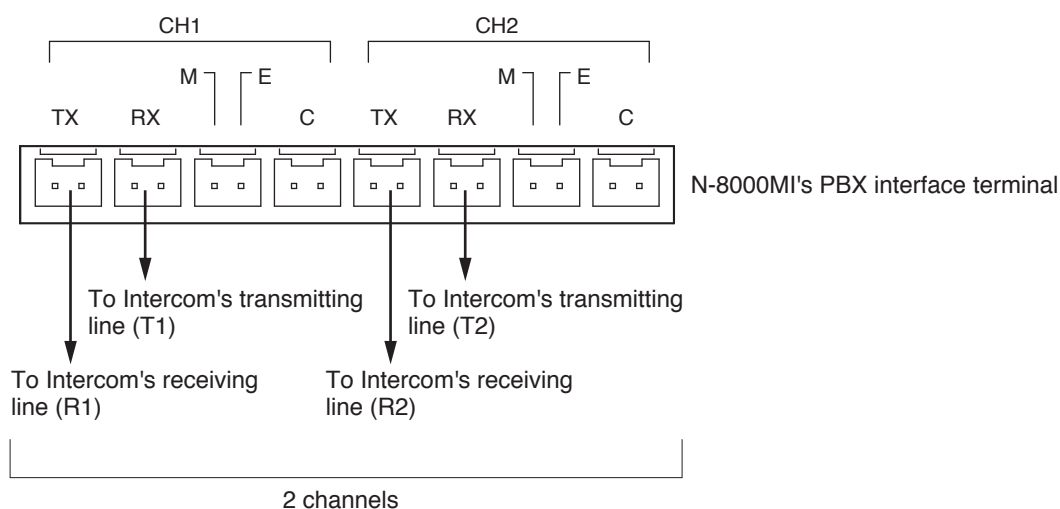


Note

Do not ground the Functional earth terminal (No. 6 on p. 8) in this PBX connection.

[Connecting to the Intercom's Tie-Line Unit]

Connect the intercom's transmitting line to the unit's RX terminal, and the receiving line to the TX terminal.



8.2. Type of Cable

The types of cables are to be determined according to the following conditions.

- Twisted pair wires (such as those used for electronic push-button telephone) are to be used for wiring to the audio input/output terminals and PBX interface terminal.
- UTP category 5 Straight through cables with RJ45 connector are to be used for wiring the equipments connected to IP network.
- The number of cables pairs laid should be determined considering the possibility of future expansion of the system.
- Outdoor wires should be used where wiring passes through inaccessible areas such as ceilings or under floors where the maintenance is not performed. Indoor wires may also be used, however, in case where there is no risk of deterioration due to exposure to heat, etc.

Note

Specifications related to each junction are as follows.

Mini-clamp connector (PBX interface terminal)

Conductor diameter: $\varnothing$ 0.4 – 0.65 mm (AWG22 – 26), Solid wire

Outside diameter: $\varnothing$ 1.05 mm or below

Removable terminal plug (Control input/output terminals and audio input/output terminals)

Conductor diameter: $\varnothing$ 0.5 – 2 mm (AWG12 – 24), Solid wire/Stranded wire

8.3. Connector Connection

Mini-clamp connectors for PBX interface terminals and removable terminal plugs for line input and output terminals are supplied with the N-8000MI.

Perform each connector connection as follows.

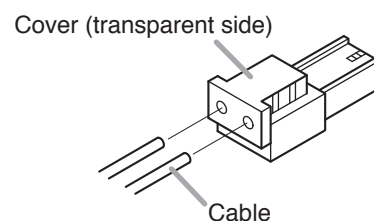
8.3.1. Mini-clamp connector connection

Step 1. Cut off two-cable ends in equal length, and insert them securely to a cover section (transparent side) of the mini-clamp connector.

Note

Insert the cable without stripping the cable jacket.

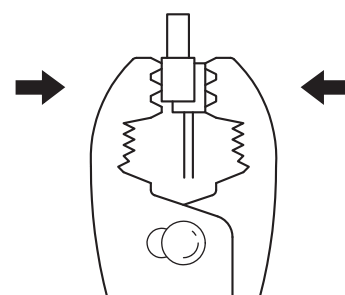
For cables, refer to the above section, Type of Cable.



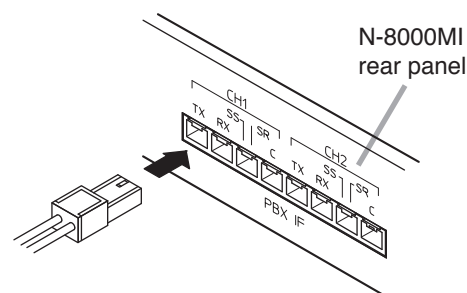
Step 2. With a pair of pliers, lightly pinch the mini-clamp cover and, after ensuring that the cable is securely inserted, firmly squeeze on the cover.

Note

Squeeze on the mini-clamp cover until it is correctly locked.

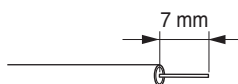


Step 3. Insert the wired plug into the N-8000MI's socket until it locks into place.



8.3.2. Terminal plug connection

Step 1. Strip a cable jacket of approx. 7 mm from the cable end.



For cables, refer to p. 15, "Type of Cable."

Note

Do not solder plate on exposed inner cables when using a stranded wire.

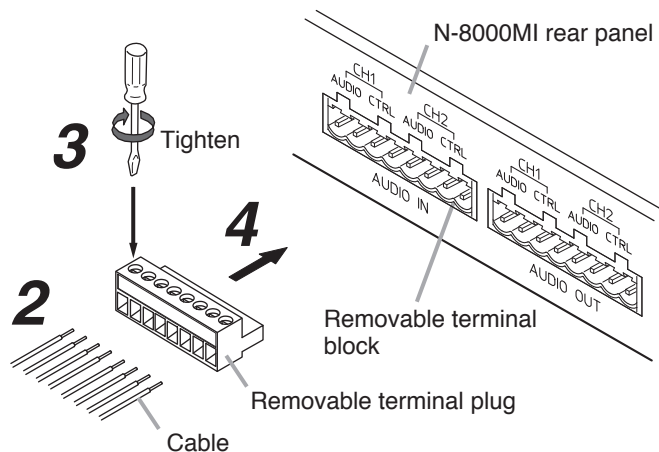
Step 2. Loosen the terminal screws and insert the cables.

Step 3. Tighten the terminal screws securely.

Notes

- Tug lightly on the cable to be sure that it does not pull free. If the cable pulls free, loosen the terminal screw again and reconnect from **Step 2**.
- Use the screwdriver appropriate to the screws tightened into the terminal plug.

Step 4. Insert the wired terminal plug into the terminal block.



9. ACCESSORIES

AC power cord (2 m)	1	Plastic foot	4
CD*	1	Machine screw M4 x 20	4
Removable terminal plug (9 pins)	4	Rack mounting bracket	2
Removable terminal plug (8 pins)	2	Tapping screw 3 x 8	8
Mini-clamp connector (2 pins)	10	Rack mounting screw 5 x 12 with plain washer	4

* Contains the N-8000 setting software program and the N-8000 series instruction manual. The Setup Launcher is automatically started when the supplied CD-ROM is inserted into the PC's drive.

Note

If your PC's CD drive is not compatible with the AutoRun function, the setup guide is not automatically started even when the CD is inserted. Use either "Explorer" or "My Computer" to execute the following files, or use [Start → Run] in the Task Bar and enter the following command.

<Drive where CD is placed> \index.html

For example, when placing the CD in the "d" drive, → d:\index.html

Version update information

- Download our TOA Products Data, web site (<https://www.toa-products.com/international/>) to get the up-to-date version for N-8000 software, firmware, and Instruction manuals.
- The software version number can be confirmed using the Help menu.
- The current firmware version can be confirmed on the system management screen displayed when the browser establishes the connection to the Multi Interface Unit.
- The instruction manual version number can be confirmed by checking the preparation date (month and year) shown at the lower right corner of the last page.
Example: Prepared in November 2004: 200411