

C/O INTERFACE UNIT

N-8000CO

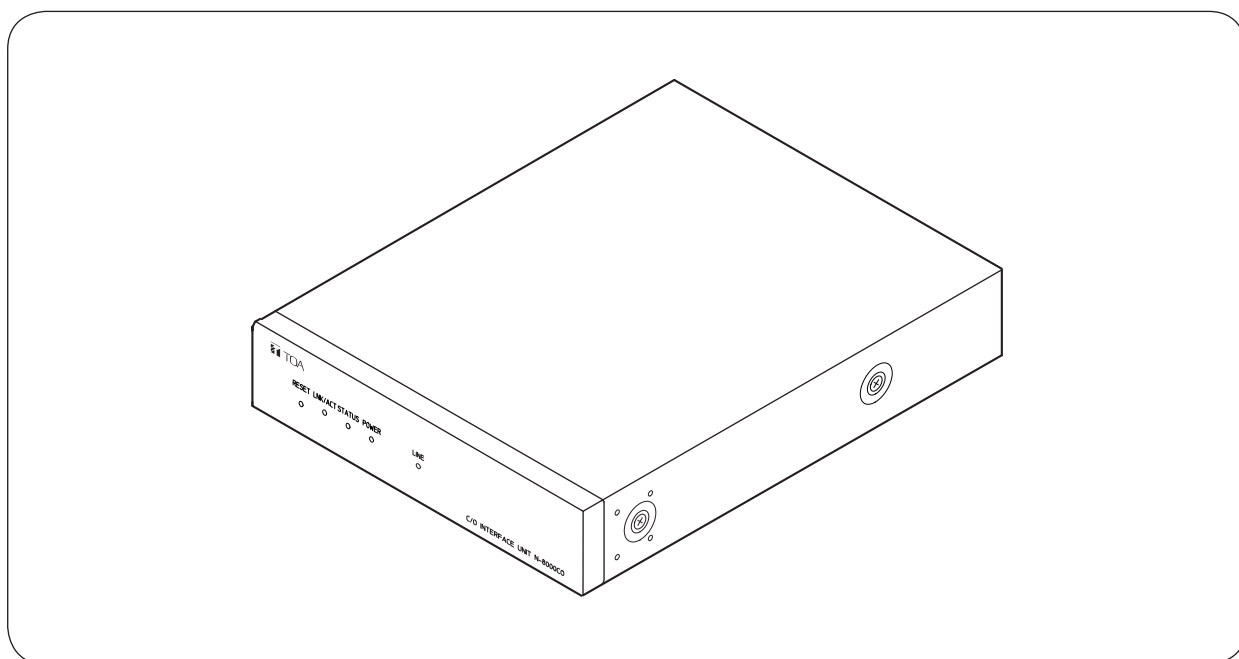


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Thank you for purchasing TOA's C/O Interface Unit.

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.
- Install the unit only in a location that can structurally support the weight of the unit and the mounting bracket. Doing otherwise 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 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 qualified service personnel.

- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.
- 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.
- 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.
 - When connecting the unit's power cord to an AC outlet, use the AC outlet with current capacity allowable to the unit.
 - The supplied rack-mounting screws can be used for the TOA equipment rack only. Do not use them for other racks.

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.
- Installer l'unité dans un endroit structurellement capable de soutenir le poids de l'appareil et de la patte de montage.
L'appareil pourrait tomber et provoquer des blessures corporelles et/ou des dommages matériels.

Pendant l'utilisation 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 à un technicien après-vente qualifié.

- Ne pas insérer ni laisser tomber d'objets métalliques ou de matériaux inflammables dans les événements de ventilation du capot de l'appareil sous peine de provoquer un incendie ou une électrocution.
- 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.
- 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.
- Pour brancher le cordon d'alimentation à une prise CA, vérifier l'intensité maximale de l'appareil.
- Les vis de montage en bâti fournies peuvent seulement être utilisées pour le bâti de l'équipement TOA. Ne pas les utiliser pour d'autres bâtis.

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.

[Notification for North America]

FCC REQUIREMENTS

General Requirements For All Equipment:

1. This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the top cover of this equipment is a label that contains, among other information, a product identifier in the format US: AAAEQ##TXXXX.
If requested, this number must be provided to the telephone company.
2. USOC Jack RJ11C or RJ11W.
3. A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA.
A compliant telephone cord and modular plug is provided with this product.
It is designed to be connected to a compatible modular jack that is also compliant.
See installation instructions for details.
4. The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call.
In most but not all areas, the sum of RENs should not exceed five (5.0).
To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US: AAAEQ##TXXXX.
The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).
For earlier products, the REN is separately shown on the label.
5. If this equipment [N8KCOCU] causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
6. The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment.
If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
7. If trouble is experienced with this equipment [N8KCOCU], for repair or warranty information, please contact TOA Electronics, Inc., 1350 Bayshore Highway, Suite 270 Burlingame, California 94010, phone (650) 452-1200.
If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved.
8. If there is a section in the general customer instructions that provides detailed information on repairs, a reference to that section is acceptable.
If this equipment is of a type that is not intended to be repaired, state that fact in place of any repair instructions.
9. Connection to party line service is subject to state tariffs.
Contact the state public utility commission, public service commission or corporation commission for information.
10. If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this [N8KCOCU] does not disable your alarm equipment.
If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.
11. Customer Information 4 July 2003
This equipment is hearing aid compatible.

12. CAUTION - To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord.
13. The interconnected telecommunication terminal equipment should be UL Listed and the connections shall be made in accordance with Article 800 of the NEC.

Data Equipment:

For permissive, programmable and (or) fixed loss loop operation data equipment, in addition to the general requirements for all equipment, information must be provided explaining which jack is associated with each operation.

- Permissive, use RJ11C
- Programmable, use RJ41S and RJ45S
- Fixed Loss Loop, use RJ41S
- Refer to ATIS Technical Report No. 5 for details on these connectors.

For Private (Leased) Line (Analog Data Format) equipment, the type JM8 jack is required. Refer to ATIS Technical Report No. 5 for details on this connector.

For Private (Leased) Line (Digital Format) equipment, in addition to the general requirements for all equipment, certain digital connections require that an encoded analog content and billing protection affidavit be provided the telephone company. Customer instructions must contain information on the preparation and submission of the affidavit.

Systems:

The consumer instructions for systems must contain information on all connectors to the network (switched and private line). This information includes the jack USOCs, FICs, SOC's, the REN if applicable, the premises wiring information, and any affidavits or written authority authorizations. Furthermore, the US: AAAEQ##TXXX number of the system must be provided so the telephone service provider can ascertain intended modes of operation and verification of certification ports.

Adjuncts - KX and PX Devices:

The consumer information must contain notification that when the adjunct is used with a leased system, permission of the owner of the equipment must be obtained for connection of the adjunct because modification of the host system is often required.

Customer instructions for KX type telephones with medium impedance analog message waiting lights and/or line status indicators must contain statements that they can only be connected to host equipment and never directly to the network. The reason is that they do not meet the 5 megohm requirement and most likely will create excessive leakage current when polled by the telephone company's daily automatic loop insulation test equipment. Such events trigger a maintenance action by the telephone company to determine the location of such leakage currents.

WARNING (For U.S.A. only)

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications.

It has been tested and found to comply with the limits for a Class A computing device pursuant to Subject J of Part 15 of the FCC Rules, which are designed to provide reasonable protection such interference when operated in a commercial environment.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA.

INDUSTRIAL CANADA REQUIREMENTS

EQUIPMENT ATTACHMENT LIMITATIONS

NOTICE: The Industry Canada label identifies certified equipment.

This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements documents.

The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company.

The equipment must also be installed using an acceptable method of connection.

The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repair to certified equipment should be coordinated by a representative designated by the supplier. Any repair or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together.

This precaution may be particularly important in rural areas.

The Ringer Equivalence Number (0.4) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface.

The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

The interconnected telecommunication terminal equipment should be UL Listed and the connections shall be made in accordance with Article 800 of the NEC.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord.

[Notification for Europe]

NOTICE: The interconnected telecommunication terminal equipment should comply with IEC60950-1.

Caution: Do not defeat the Class I product's earthed connections.

2. GENERAL DESCRIPTION

TOA's N-8000CO is C/O interface unit used for the N-8000 Series Packet Intercom System (IP network compatible intercom) employing packet audio technology*.

It has an analog central office line circuit, allowing the intercom station to make and receive calls to and from the telephone line.

Connecting the unit to the LAN permits paging calls through analog subscriber line to be made and the equipment connected to the N-8000MI and N-8000DI to be controlled.

* 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-8000CO de TOA est le commutateur téléphonique utilisé pour le système de paquet intercom des séries N-8000 (intercom compatible avec un réseau IP) utilisant une technologie de paquet audio*.

Il est doté d'un circuit pour ligne professionnelle centrale analogique, qui permet à la station intercom d'appeler et de recevoir des appels à partir de la ligne téléphonique.

Le branchement de l'unité au LAN permet d'envoyer des notifications via la ligne analogique de l'abonné et de contrôler l'équipement connecté aux unités N-8000MI et N-8000DI.

* 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

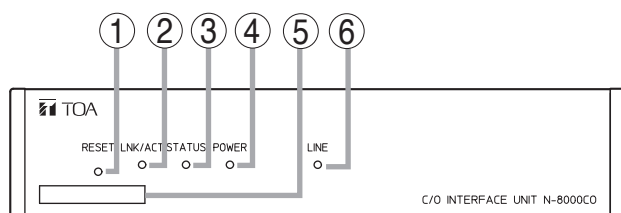
- Exchanges, IP stations and various kinds of interface units can be distributed over a data communications network.
- Can be connected to an existing local area network (LAN) or wide-area network (WAN).
- The dedicated software program enables centralized control with a personal computer.
- System maintenance (verifying operation log and Line supervision) can also be performed with a personal computer and Internet browser.

CARACTÉRISTIQUES

- Un réseau de communication de données permet la connexion de centraux, de stations IP et de différents types d'interfaces.
- Peut être connecté à un réseau local (LAN) ou étendu (WAN) existant.
- 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.

4. NOMENCLATURE AND FUNCTIONS

[Front]



1. Reset key [RESET]

Pressing this key reactivates this unit.

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

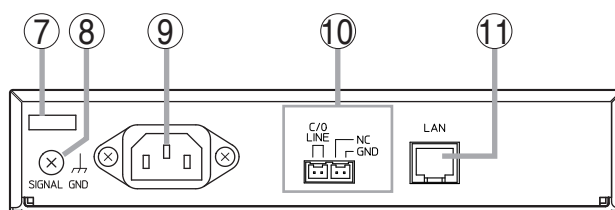
This is the address* used by the unit. Since the relationship of each exchange location to its MAC address is established when setting the network attributes, keep track of this relationship for later use.

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

6. Subscriber line indicator [LINE] (Green)

Remains lit while accessing the subscriber line.

[Rear]



7. Cord clamp

Pass the power cord through this clamp to ensure that the plug does not pull out when the unit is mounted to a wall. (Refer to p. 11.)

8. Functional earth terminal [SIGNAL GND]

Ground this terminal.

Note: This terminal is not for protective earth.

9. AC inlet

Connect the supplied power cord.

Note

If there is a danger of lightning strikes, insert an appropriate surge arrester into the power line.

10. Subscriber Line Connection Terminal [C/O LINE]

Connect the subscriber line to this terminal using a pair of twisted pair cables. Use the mini-clamp connector for connection of this terminal.

11. Network connection terminal [10/100M]

Connects to a 10BASE-T- or 100BASE-TX-compatible network. (Ethernet RJ-45 jack)

5. INSTALLATION

The N-8000CO can be installed in any of three ways: Equipment rack mounting, Desk-top installation, and Wall mounting.

5.1. 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 (Tma) 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).

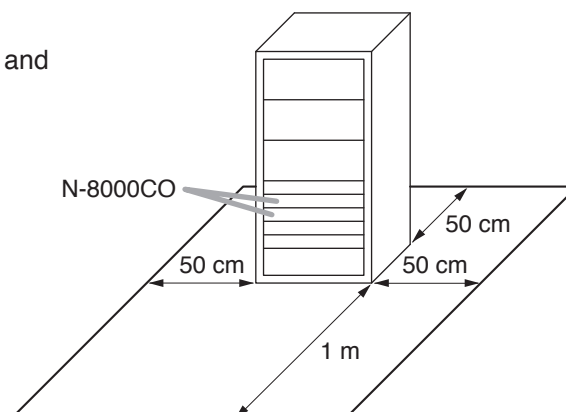
The N-8000CO can be mounted on the CR-273 or CR-413 or standard EIA 19" Equipment rack.
For the CR-273 and CR-413 Equipment rack assembly, read the installation manual supplied with the rack.

Note

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

5.1.1. Setting space

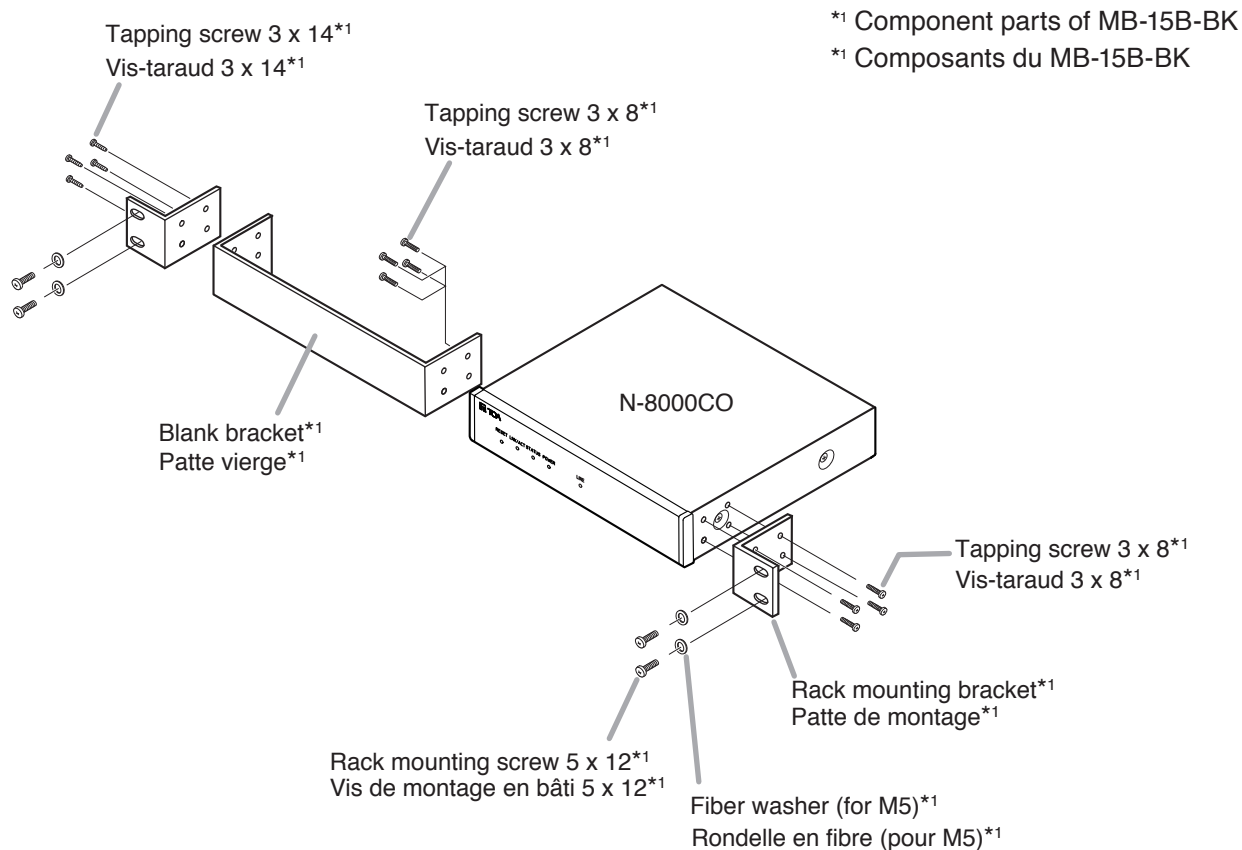
For maintenance works, allow much space between the wall and Equipment rack.



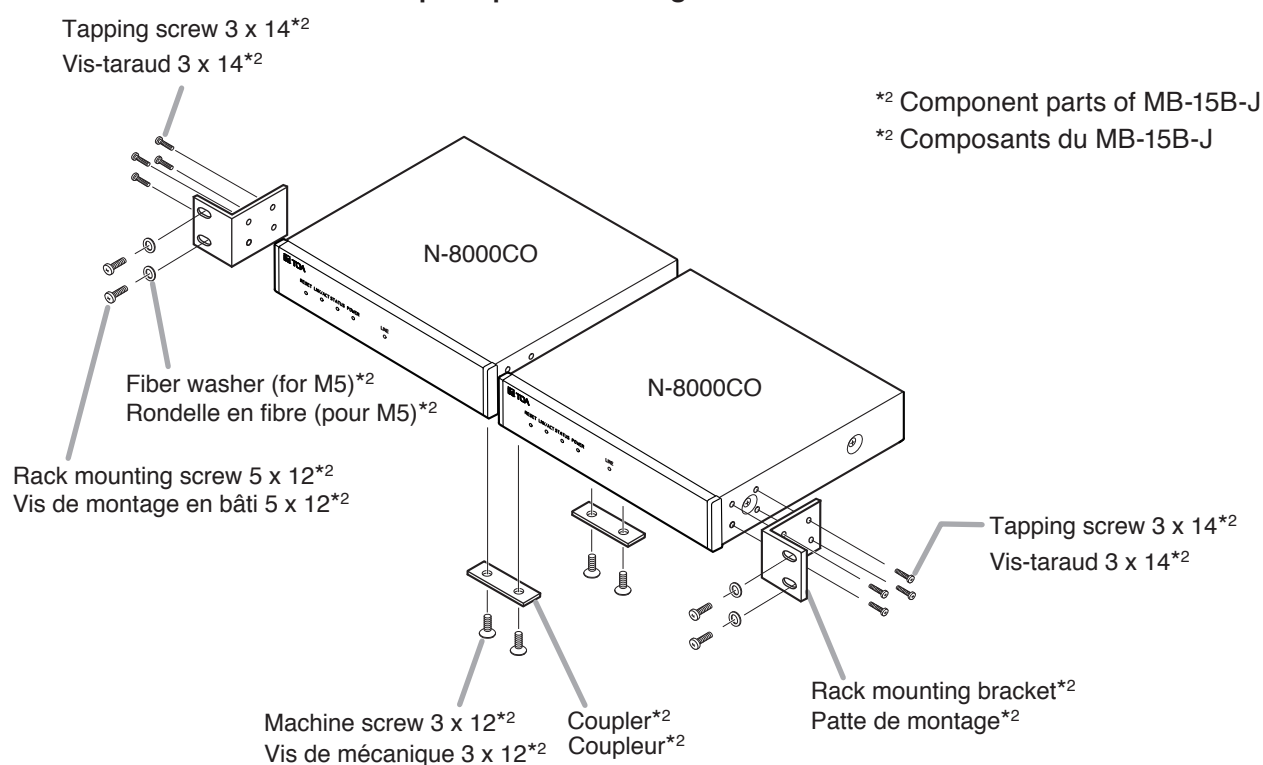
5.1.2. Mounting on the rack Montage en bâti

Use the optional mounting hardware set when installing the unit in an equipment rack.
Utilisez le matériel de montage en option pour installer l'unité en bâti.

- Use the optional MB-15B-BK hardware set when mounting a single unit.
- Utilisez le matériel MB-15B-BK en option pour le montage d'une seule unité.



- Use the optional MB-15B-J hardware set when mounting 2 units.
- Utilisez le matériel MB-15B-J en option pour le montage de 2 unités.

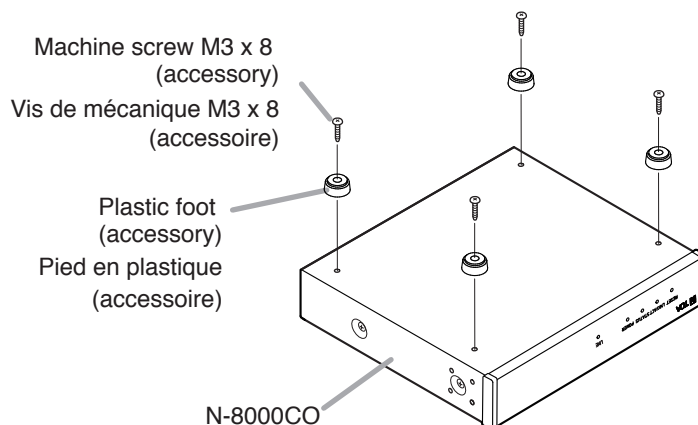


5.2. Desk-Top Installation

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

Installation sur un bureau

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

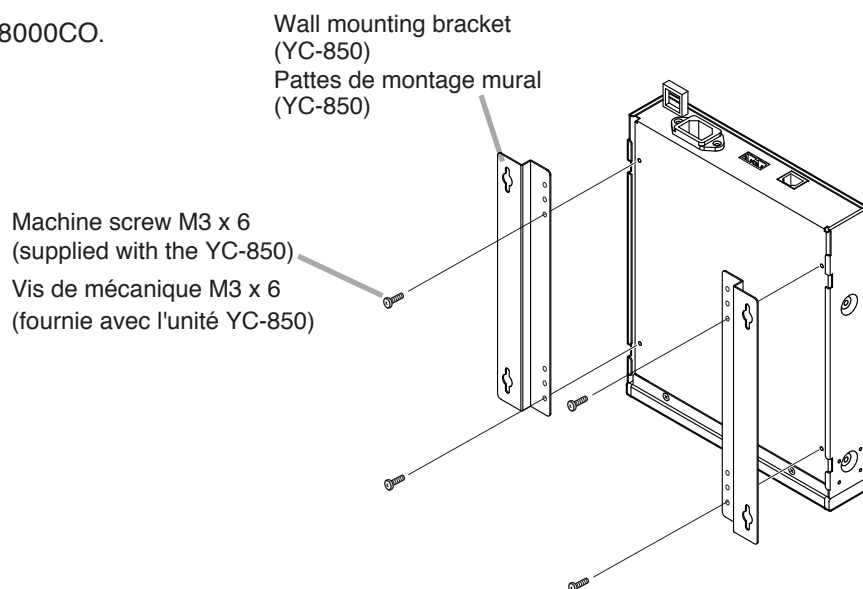


5.3. Wall Mounting

Montage mural

The N-8000CO can be mounted on a wall using an optional YC-850 Wall-mounting bracket.

Step 1. Install the YC-850 to the N-8000CO.



L'unité N-8000CO peut être montée au mur à l'aide d'une patte de montage mural YC-850.

Étape 1. Installez l'unité YC-850 sur l'unité N-8000CO.

Step 2. Mount the N-8000CO on the wall.

Notes

- Use appropriate screws for the construction of wall.
- Wood screws 3.5 x 20 are supplied with the YC-850.
- The socket-outlet shall be installed near the equipment and the plug (disconnecting device) shall be easily accessible.

Étape 2. Montez l'unité N-8000CO au mur.

Remarques

- Utilisez des vis adaptées à la structure du mur.
- L'unité YC-850 est livrée avec des vis à bois 3,5 x 20.
- La prise doit être installée à proximité de l'équipement et la fiche (dispositif de déconnexion) doit être facilement accessible.

**Protect against disconnection
(Power supply plug)**

Unlock cord clamp and run the power supply cord through it.

Note

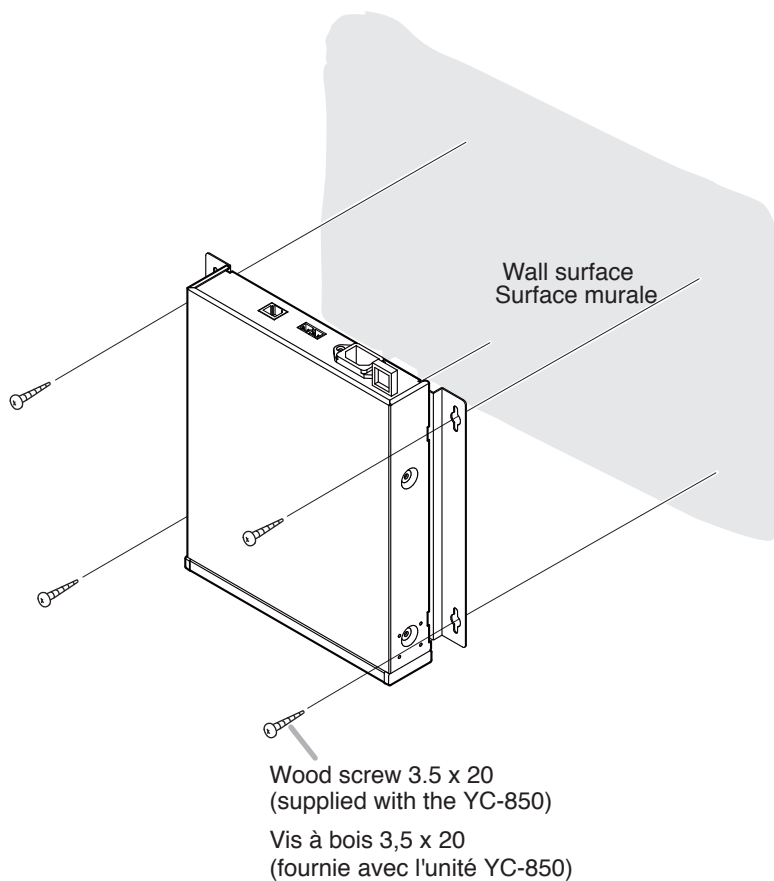
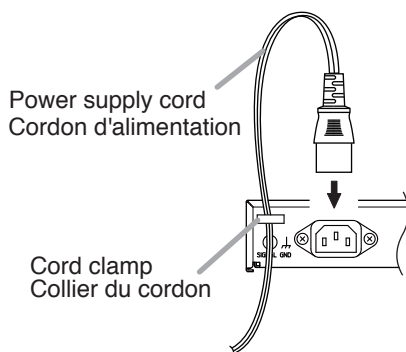
Keep the cable length between a power supply plug and cord clamp as short as possible.

**Protection contre les ruptures
d'alimentation (prise d'alimentation)**

Déverrouillez le collier à cordon et glissez-y le cordon d'alimentation.

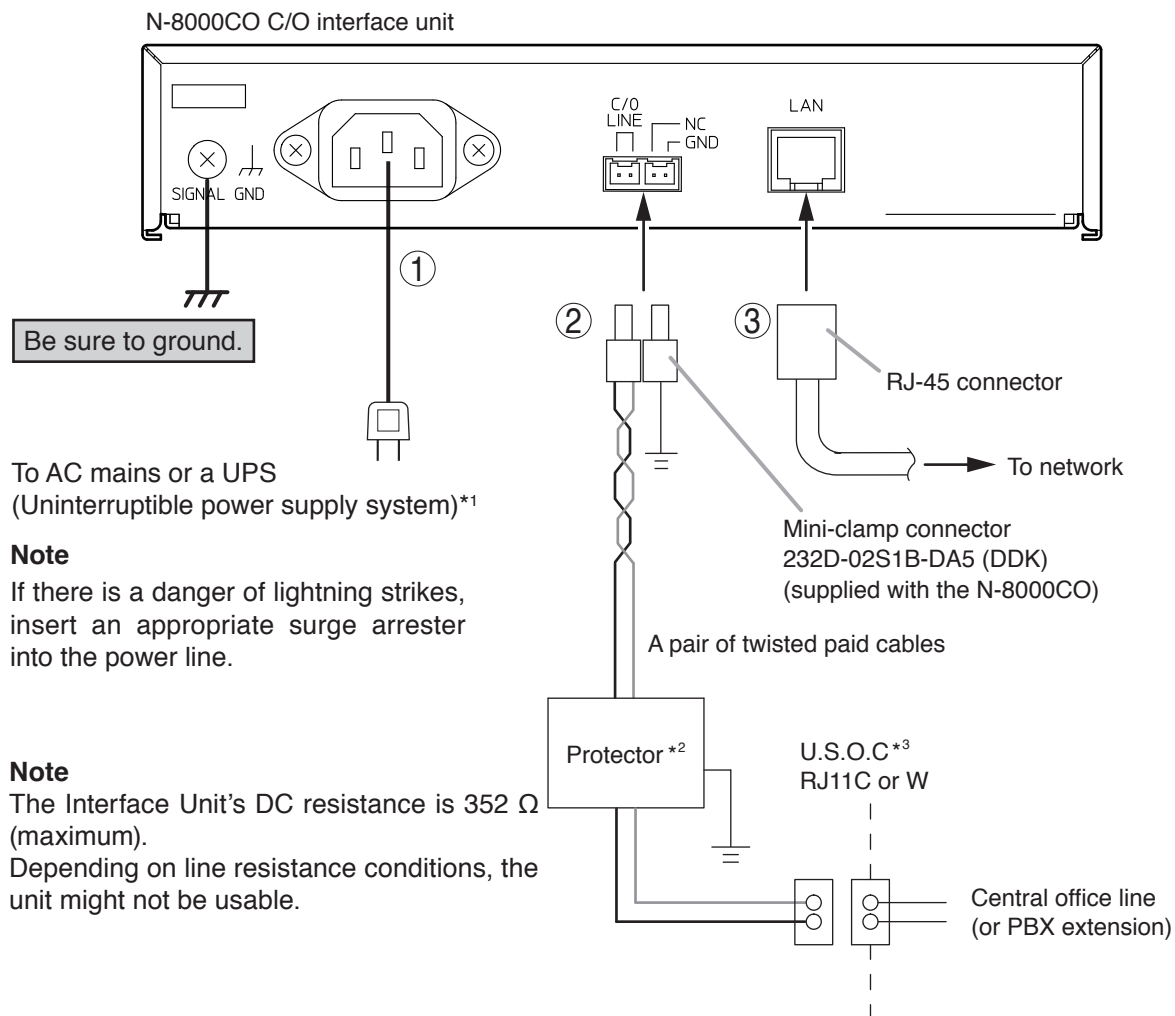
Remarque

Le câble entre la prise d'alimentation et le collier doit être aussi court que possible.



6. WIRING

6.1. Connection Diagram



*1 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.

*2 Install the protector if the telephone company has not already installed it.

*3 This terminal is installed by the telephone company.

Reference

C/O interface unit: 6 W (rated) for CE version, 6 W (rated) for CU version
8-Port 10M/100M Switching Hub: 10 W (Differs depending on products.)

[General description of connection]

For cables, refer to p. 14.

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-8000CO.

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

2. C/O line connection

Connect the C/O line to the PSTN (public switched telephone network) using the supplied mini-clamp connector.

(Refer to p. 14, "Connector Connection.")



CAUTION

To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord.



ATTENTION

Pour réduire le risque d'incendie, utilisez uniquement un cordon de ligne téléphonique AWG n°26 ou plus.

3. Network connection

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

Use a straight through cable of UTP category 5 or more for this connection.

6.2. Type of Cable

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

- UTP category 5 Straight through cables with RJ45 connector are to be used for connecting 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 junction are as follows.

Mini-clamp connector (N-8000CO C/O line connection terminal)

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

Outside diameter: $\varnothing$ 1.05 mm or below

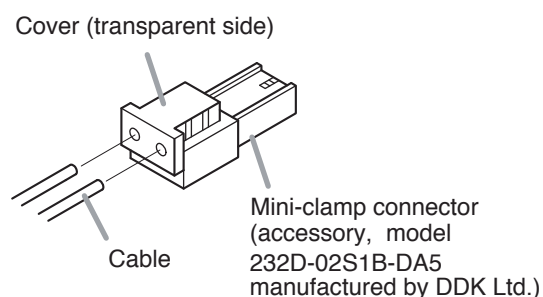
6.3. Connector Connection

Connect the mini-clamp connector supplied with the N-8000CO, to a cable using a commercially available tool (pliers).

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

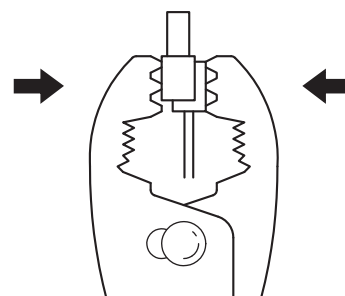
Insert the cable without stripping the cable jacket.
For cables, refer to above, "Type of Cable."



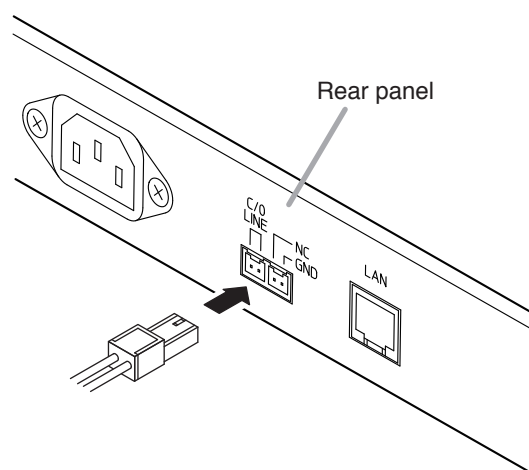
Step 2. With a pair of pliers, lightly pinch the mini-clamp cover and, after ensuring that the cable is securely inserted, firmly squeeze on the cover.

Note

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



Step 3. Insert the wired connector (plug) into the C/O interface unit's connector (socket) until it locks into place.



7. ACCESSORIES

AC power cord (2 m)	1	Plastic foot	4
CD* (for PC setting, maintenance use)	1	Machine screw M3 x 8	4
Mini-clamp connector (2P)	2		

* 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

8. OPTIONAL PRODUCTS

Rack mounting bracket: MB-15B-BK (for rack mounting one N-8000CO unit)

MB-15B-J (for rack mounting two N-8000CO units)

Wall mounting bracket: YC-850

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 C/O 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 January 2010: 201001

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