

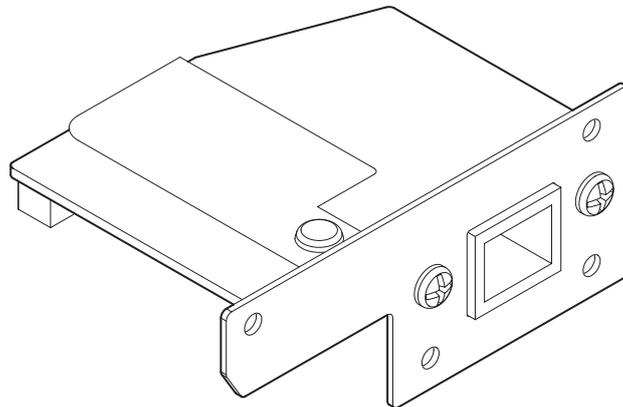
TASCAM

D01337520A

IF-E100

ETHERNET CONTROL CARD

Reference Manual



Contents

| | |
|--------------------------------------------------------|---|
| Features | 2 |
| Models compatible for installation | 2 |
| CD-400U/CD-400UDAB..... | 2 |
| Updating the firmware | 2 |
| Installation procedure overview | 2 |
| Conventions used in this manual | 2 |
| Trademarks | 2 |
| Using the TEAC Global Site | 3 |
| Product registration | 3 |
| About TASCAM customer support service | 3 |
| Names and functions of parts | 3 |
| Rear panel..... | 3 |
| Installing the Ethernet card | 3 |
| Connecting to Ethernet | 3 |
| Network function settings | 4 |
| Enabling Ethernet (Serial Mode setting)..... | 4 |
| Network function settings..... | 4 |
| Password setting..... | 4 |
| IP mode setting..... | 4 |
| IP address setting (IP Address)..... | 4 |
| Setting the subnet mask (Subnet Mask)..... | 5 |
| Setting the default gateway (Gateway)..... | 5 |
| Setting the DNS address (DNS Address)..... | 5 |
| Remote control | 6 |
| Required settings for Telnet connection..... | 6 |
| Connecting to this unit by Telnet..... | 6 |
| Specifications | 6 |
| Input and output..... | 6 |
| Ethernet connectors..... | 6 |
| Other..... | 6 |
| Dimensions..... | 6 |
| Weight..... | 6 |
| Dimensional drawings..... | 6 |
| Software Licensing | 7 |
| Apache License..... | 7 |
| APPENDIX: How to apply the Apache License to your work | 8 |

Features

- Enables external control of a CD-400U/CD-400U DAB using Telnet through an Ethernet connection
- Supports 100BASE-T

Models compatible for installation

Before installing this card, check the TEAC Global Site (<http://teac-global.com/>) for the latest information about the models in which it can be installed.

CD-400U/CD-400UDAB

Use firmware Ver 1.10 or later for these models.

Updating the firmware

The firmware of this card can be updated to add functions to it. Check the TEAC Global Site (<http://teac-global.com/>) for details about the latest firmware and update procedures.

Installation procedure overview

- Always disconnect the CD-400U/CD-400U DAB AC cord before installing or removing this card.
- Securely tighten the attachment screws on the right and the left of the card before use.

Conventions used in this manual

In this manual, we use the following conventions:

- When we refer to buttons, connectors and other parts of this unit, we use a bold font like this: **ENTER** button.
- When we show characters that appear on the display, the typeface looks like this: `Serial Mode`.
- As necessary, additional information is provided under TIP, NOTE and CAUTION headings.

TIP

These are tips about how to use the unit.

NOTE

These provide additional explanations and describe special cases.

ATTENTION

Failure to follow these instructions could result in damage to equipment or lost data, for example.

CAUTION

Failure to follow these instructions could result in injury.

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Using the TEAC Global Site

You can download updates for this unit from the TEAC Global Site:

<http://teac-global.com/>

In the TASCAM Downloads section, select the desired language to open the Downloads website page for that language.

Product registration

Customers in the USA, please visit the following TASCAM website to register your TASCAM product online.

<http://tascam.com/>

About TASCAM customer support service

TASCAM products are supported and warranted only in their country/region of purchase.

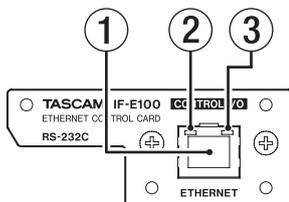
To receive support after purchase, on the TASCAM Distributors list page of the TEAC Global Site (<http://teac-global.com/>), search for the local company or representative for the region where you purchased the product and contact that organization.

When making inquiries, the address (URL) of the shop or web shop where it was purchased and the purchase date are required. Moreover, the warranty card and proof of purchase might also be necessary.

Names and functions of parts

This card has a RJ-45 connector that supports 100Mbps Ethernet. Use a LAN cable to connect this connector to other devices that support Ethernet or an Ethernet network.

Rear panel



① **RJ-45 connector**

This is an Ethernet port.

Use this to connect to a network and control the unit externally.

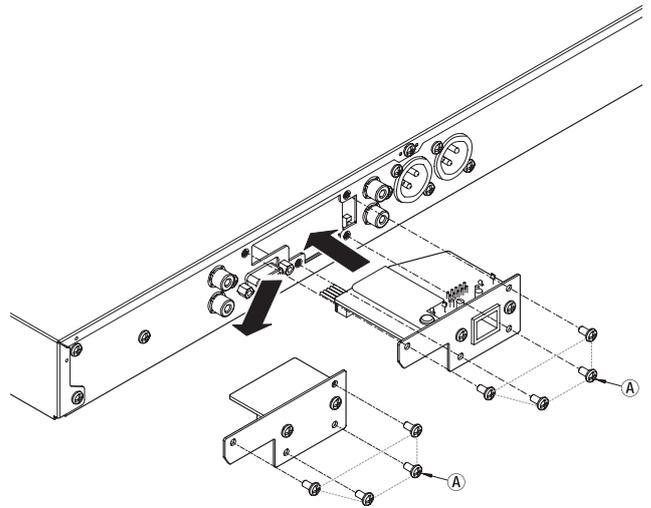
② **100Mbps link status indicator**

Orange indicates that a 100Mbps Ethernet link has been established.

③ **Link status/activity indicator**

Green indicates that a link is established between the devices. Blinking indicates that signals are being transmitted between the devices.

Installing the Ethernet card



ATTENTION

Before installing or removing the Ethernet card, disconnect the power cord from the outlet or the unit.

1. Remove the 4 screws (A) from the placeholder card installed in the CD-400U/CD-400U DAB.

ATTENTION

Do not remove any screws other than those indicated.

2. Gently pull the placeholder card away from and out of the unit.
3. The CD-400U/CD-400U DAB and the placeholder card are connected. Turn the placeholder card over and pull out the connector.
4. Completely insert the connector that was removed from the placeholder card into the connector receptacle on the Ethernet card. (If something seems wrong when inserting the connector, check the connector orientation.)
5. Insert the Ethernet card in the CD-400U/CD-400U DAB, and use the 4 screws (A) to secure it to the unit. Be careful not to over-tighten the screws. After installation, confirm that the screws are not loose or sticking out.

NOTE

Confirm that the CD-400U/CD-400U DAB is using the latest system firmware.

Connecting to Ethernet

Connect a LAN cable to the RJ-45 connector on this card and select an Ethernet network.

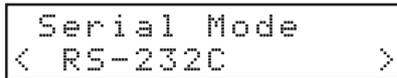
Network function settings

Enabling Ethernet (Serial Mode setting)

The unit can be connected to a network using its Ethernet connector, allowing external control of the unit. Telnet is the protocol that can be used.

To control the unit by Ethernet, Serial Mode must be switched from RS-232C to Ethernet.

1. Select Serial Mode on the Menu screen to open the Serial mode screen. (See "Menu operation procedures" in "2 – Names and Functions of Parts" in the CD-400U/CD-400U DAB Owner's Manual.)



2. Set the Serial Mode.

Options: RS-232C (default), Ethernet

Set to **Ethernet** to use the IF-E100 to control a CD-400U.

3. Confirm the setting and return to the Menu Screen.

NOTE

- The Serial Mode setting must be reset to "RS-232C" to control the CD-400U/CD-400U DAB externally using an RS-232C connection.
- The Serial Mode setting is retained even when the unit is turned off.
- Press the **BACK [PAIRING]** button to return to the **Network Set.** screen without changing the setting.

Network function settings

The unit can be connected to a network using its Ethernet connector, allowing external control of the unit.

Telnet is the protocol that can be used.

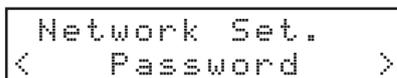
Use **Network Set.** on the Menu screen to set the network function.

Password setting

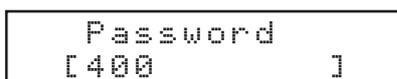
Set the password (default: 400).

Input up to 10 characters, using only numbers.

1. Select **Network Set.** on the Menu screen to open the **Network Set.** screen. (See "Menu operation procedures" in "2 – Names and Functions of Parts" in the CD-400U/CD-400U DAB Owner's Manual.)



2. Select **Password** on the **Network Set.** screen to open the **Password** screen.



3. Use the number buttons on the main unit or the remote control to input the password.

The blinking character shows the cursor (editing point) where a number can be input.

Turn the **MULTI JOG** dial or press the **◀◀/▶▶** [**</>**] remote control buttons to move the cursor.

4. Press the main unit **MULTI JOG** dial or remote control **ENTER** button to confirm the setting and return to the Menu screen.

NOTE

- The Password setting is retained even when the unit is turned off.
- Press the **CLEAR** button to delete characters. All the numbers to the right of the cursor (editing point) will be deleted.
- Press the **BACK [PAIRING]** button to return to the **Network Set.** screen without changing the setting.

IP mode setting

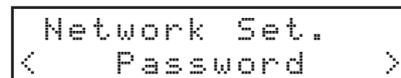
Set the IP address setting mode.

When set to **Static**, the **IP Address**, **Subnet Mask**, **Gateway** and **DNS Address** items are set manually.

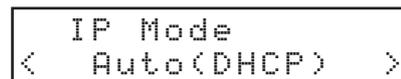
When set to **Auto (DHCP)**, the **IP Address**, **Subnet Mask**, **Gateway** and **DNS Address** items are set automatically.

Use this setting if there is a DHCP server on the network.

1. Select **Network Set.** on the Menu screen to open the **Network Set.** screen. (See "Menu operation procedures" in "2 – Names and Functions of Parts" in the CD-400U/CD-400U DAB Owner's Manual.)



2. Select **IP Mode** on the **Network Set.** screen to open the **IP Mode** screen.



3. Set the IP Mode.

Options: Auto (DHCP) (default), Static

4. Confirm the setting and return to the Menu Screen.

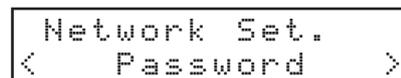
NOTE

- The IP Mode setting is retained even when the unit is turned off.
- Press the **BACK [PAIRING]** button to return to the **Network Set.** screen without changing the setting.

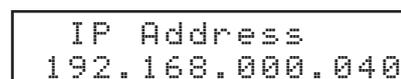
IP address setting (IP Address)

Set the IP address (default: 192. 168. 000. 040).

1. Select **Network Set.** on the Menu screen to open the **Network Set.** screen. (See "Menu operation procedures" in "2 – Names and Functions of Parts" in the CD-400U/CD-400U DAB Owner's Manual.)



2. Select **IP Address** on the **Network Set.** screen to open the **IP Address** screen.



3. Use the number buttons on the main unit or the remote control to input the IP address.

The blinking character shows the cursor (editing point) where a number can be input.

Turn the **MULTI JOG** dial or press the **◀◀/▶▶** [**</>**] remote control buttons to move the cursor.

- Press the main unit **MULTI JOG** dial or remote control **ENTER** button to confirm the setting and return to the Menu screen.

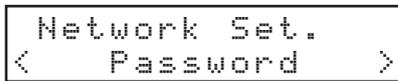
NOTE

- This cannot be set when the IP address setting mode (IP Mode) is set to Auto (DHCP).
- The IP address setting is retained even when the unit is turned off.
- To enter a single-digit number, input "00x" and to enter a two-digit number, input "0xy". (For example, input "001" to enter "1". "192. 168. 0. 1" is entered as "192. 168. 000. 001".)
- Press the **BACK [PAIRING]** button to return to the **Network Set.** screen without changing the setting.

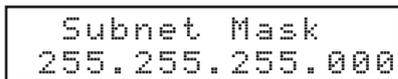
Setting the subnet mask (Subnet Mask)

Set the subnet mask (default: 255. 255. 255. 000).

- Select **Network Set.** on the Menu screen to open the **Network Set.** screen. (See "Menu operation procedures" in "2 – Names and Functions of Parts" in the CD-400U/CD-400U DAB Owner's Manual.)



- Select **Subnet Mask** on the **Network Set.** screen to open the **Subnet Mask** screen.



- Use the number buttons on the main unit or the remote control to input the subnet mask. The blinking character shows the cursor (editing point) where a number can be input. Turn the **MULTI JOG** dial or press the **◀◀/▶▶** [**</>**] remote control buttons to move the cursor.
- Press the main unit **MULTI JOG** dial or remote control **ENTER** button to confirm the setting and return to the Menu screen.

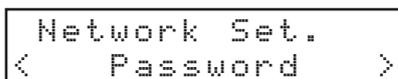
NOTE

- This cannot be set when the IP address setting mode (IP Mode) is set to Auto (DHCP).
- The subnet mask setting is retained even when the unit is turned off.
- Press the **BACK [PAIRING]** button to return to the **Network Set.** screen without changing the setting.

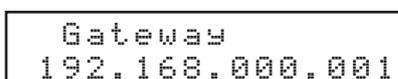
Setting the default gateway (Gateway)

Set the default gateway (default: 192. 168. 000. 001).

- Select **Network Set.** on the Menu screen to open the **Network Set.** screen. (See "Menu operation procedures" in "2 – Names and Functions of Parts" in the CD-400U/CD-400U DAB Owner's Manual.)



- Select **Gateway** on the **Network Set.** screen to open the **Gateway** screen.



- Use the number buttons on the main unit or the remote control to input the default gateway.

The blinking character shows the cursor (editing point) where a number can be input.

Turn the **MULTI JOG** dial or press the **◀◀/▶▶** [**</>**] remote control buttons to move the cursor.

- Press the main unit **MULTI JOG** dial or remote control **ENTER** button to confirm the setting and return to the Menu screen.

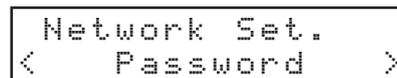
NOTE

- This cannot be set when the IP address setting mode (IP Mode) is set to Auto (DHCP).
- The default gateway setting is retained even when the unit is turned off.
- Press the **BACK [PAIRING]** button to return to the **Network Set.** screen without changing the setting.

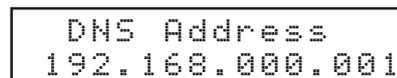
Setting the DNS address (DNS Address)

Set the DNS address (default: 192. 168. 000. 001).

- Select **Network Set.** on the Menu screen to open the **Network Set.** screen. (See "Menu operation procedures" in "2 – Names and Functions of Parts" in the CD-400U/CD-400U DAB Owner's Manual.)



- Select **DNS Address** on the **Network Set.** screen to open the **DNS Address** screen.



- Use the number buttons on the main unit or the remote control to input the DNS address. The blinking character shows the cursor (editing point) where a number can be input. Turn the **MULTI JOG** dial or press the **◀◀/▶▶** [**</>**] remote control buttons to move the cursor.
- Press the main unit **MULTI JOG** dial or remote control **ENTER** button to confirm the setting and return to the Menu screen.

NOTE

- This cannot be set when the IP address setting mode (IP Mode) is set to Auto (DHCP).
- The DNS address setting is retained even when the unit is turned off.
- Press the **BACK [PAIRING]** button to return to the **Network Set.** screen without changing the setting.

Remote control

Remote control of this unit by Ethernet using Telnet through port 23 is possible.

Required settings for Telnet connection

The following settings are necessary to connect to this unit by Telnet.

IP address: The IP address of the unit is shown in the **IP Address** screen. (See "IP address setting (IP Address)" on page 4.)

Port number: 23

Password: 400 (default) This can be changed on the Password screen. (See "Password setting" on page 4.)

Connecting to this unit by Telnet

1. After connecting to this unit by Telnet with the above IP address and port number, press the computer Enter key.
2. **"Enter Password"** will appear on the Telnet console. Input the above password and press the Enter key.
3. When login succeeds, **"Login Successful"** will appear on the Telnet console.

NOTE

- Multiple connections are not possible. If a Telnet connection has already been made, additional connections will not be possible.
- If an item of **Network Set** is changed when there is a Telnet connection, the connection will be interrupted.
- You can download the Telnet command protocol for CD-400U/CD-400UDAB from the TEAC Global Site (<http://teac-global.com/>).

Specifications

Input and output

Ethernet connector

Connector: RJ-45

Transmission protocol: Telnet

Port number: 23

Password: numbers only 10-digit maximum (default: 400)

Ethernet standard: 100BASE-TX

Cables: category 5e or faster.

Other

Dimensions

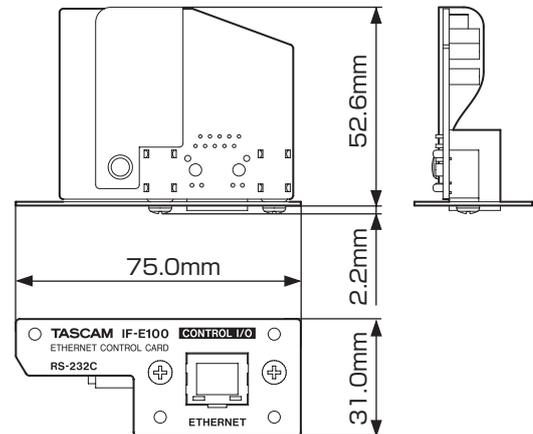
75.0 × 31.0 × 54.8 mm

(width × height × depth, including protrusions)

Weight

37 g

Dimensional drawings



- Illustrations in this manual might differ in part from the actual product.
- Specifications and external appearance might be changed without notification to improve the product.

Software Licensing

Apache License

Version 2.0, January 2004

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