



TOUCHSCREEN CONTROL DEVICE

TCD10 User Guide

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Introduction

The TCD10 is a control device equipped with a touchscreen. It allows you to control components of a sound system comprising the network-connected Yamaha signal processor DME5 or DME3.

This User Guide provides details on connecting, installing and setting up this device. In order to take full advantage of the various functions of this device, refer to this User Guide as necessary.

Features

✓ Equipped with a 10-inch touchscreen

The touchscreen allows for intuitive operation.

✓ Offers a variety of installation configurations

This device can be installed in either the portrait or landscape orientation. In order to accommodate various environments, it can be installed on a wall, in a switch box, to a VESA mount arm or on a Tabletop stand.

✓ PoE (Power over Ethernet) connectivity allows for flexible placement

A single Ethernet cable provides power and a network connection, allowing for flexible placement when incorporating into a sound system.

About this document

This manual uses the following signal words for important information.

 Caution	This indicates a risk of injury.
 Notice	This indicates a risk of product failure, damage or malfunction as well as data loss.
 Note	This indicates content regarding operation and use. Read this for your information.

- The illustrations and screens in this manual are for instructional purposes only.
- The company names and product names in this manual are trademarks or registered trademarks of their respective companies.
- We are continuously improving the software for our products. The latest version of the software can be downloaded from the Yamaha website.
- This document is based on the latest specifications at the time of publication. The latest version can be downloaded from the Yamaha website.

Included items

- ☐ Touchscreen control device × 1
The mounting bracket is pre-installed.
- ☐ VESA mount spacer × 4
- ☐ Screw and nut for VESA mount spacer × 4 each
- ☐ Spacer for UK-type switch box × 2
- ☐ Read This First

Separately sold items

- ☐ Tabletop stand TS-TCD10

Items to prepare

Some items will need to be prepared beforehand in order to use this device.

- **PoE power supply device compliant with IEEE802.3af**

When incorporated into a digital audio network, it supplies power to this device. A PoE switch is equivalent to a PoE power supply device. When a non-PoE switch is being used, a PoE injector is required as the PoE power supply device.

- **PoE Ethernet cable (CAT5e or higher)**

It connects the PoE power supply device to this device.



Note

- Prepare a CAT5e or higher Ethernet cable that complies with the IEEE802.3af standard.
- Cables up to a maximum length of 100 m can be used.
- In order to prevent electromagnetic interference, use STP (shielded twisted pair) cables.

Related software

The following software can be used to configure this device according to its use and environment.

The software can be downloaded from the Yamaha website.

<https://www.yamahaproaudio.com/>

ProVisionaire Control PLUS

This is Windows application software that allows you to design custom control panels.

For details, refer to the ProVisionaire Control PLUS User Guide.

<https://manual.yamaha.com/pa/pv/pvcp/>

TCD Launcher

This is an application that displays the operation screen in the TCD10, based on the controller file from the network-connected signal processor DME5 or DME3. The devices in the network are controlled by the signal processor. Turning on the TCD10 starts this application.

For details, refer to the TCD Launcher Operation Guide.

TCD Manager

This is a Windows application for managing the TCD10. It can detect the TCD10 on the network and manage software updates, settings, bookmarks and log files.

For details, refer to the TCD Manager Operation Guide.

Available documentation

The latest manual for TCD10 can be downloaded from the Products page.

Yamaha Pro Audio global website

<https://www.yamahaproaudio.com/>

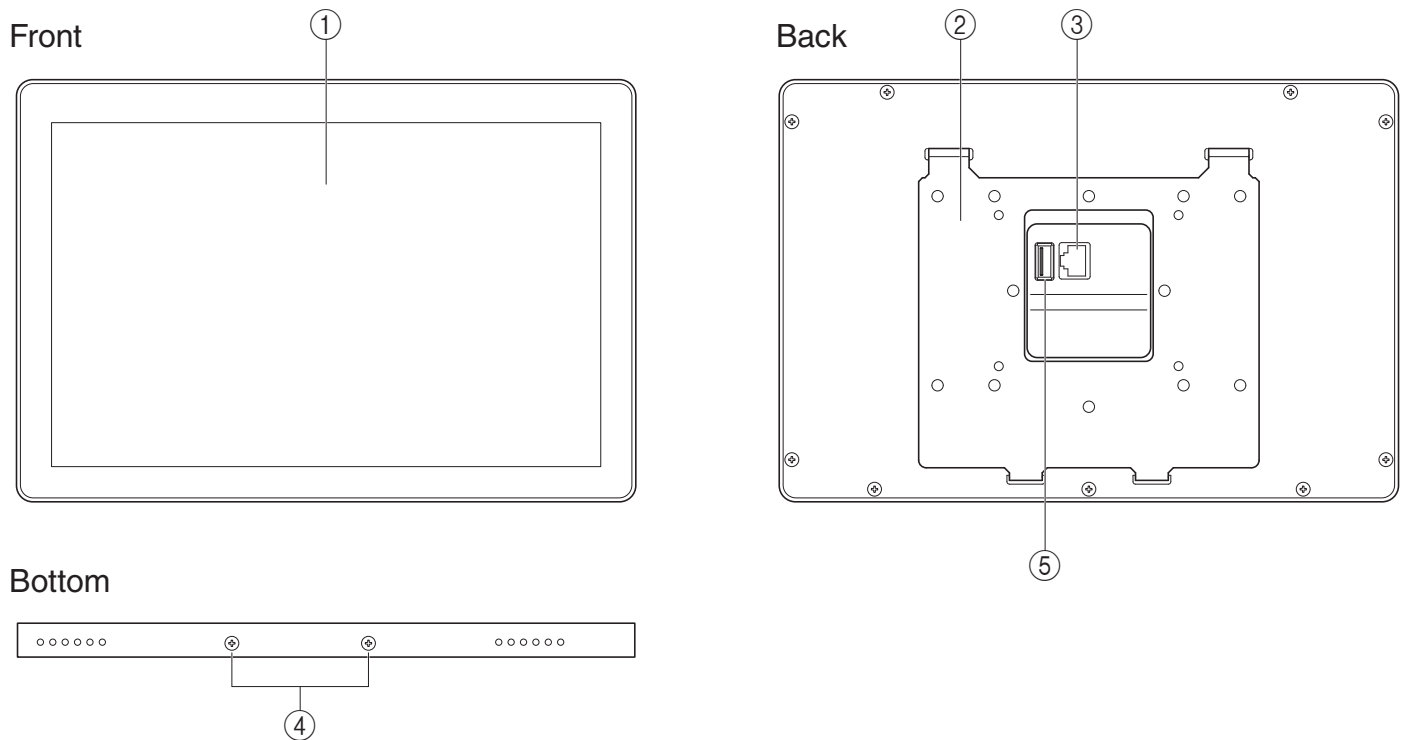
Product manuals

- | | |
|--|---|
| ☐ TCD10 Read This First (included) | This provides precautions for handling and using this device safely. |
| ☒ TCD10 User Guide (this document) | This provides the specifications and installation procedures for this device. |
| ☐ TCD Launcher Operation Guide | This provides details on using TCD Launcher. |
| ☐ TCD Manager Operation Guide | This provides details on using TCD Manager. |

Related documentation

- | | |
|--|--|
| ☐ ProVisionaire Control PLUS User Guide | This provides details on using ProVisionaire Control PLUS. |
|--|--|

Part names and functions



① Touchscreen

This displays the operation screens.

② Mounting bracket

This is a bracket for mounting this device to a wall, VESA mount or stand.

③ NETWORK port

This is an RJ-45 port for connecting this device to a network. It is also used for power supply via PoE (Power over Ethernet).

④ Device mounting screws

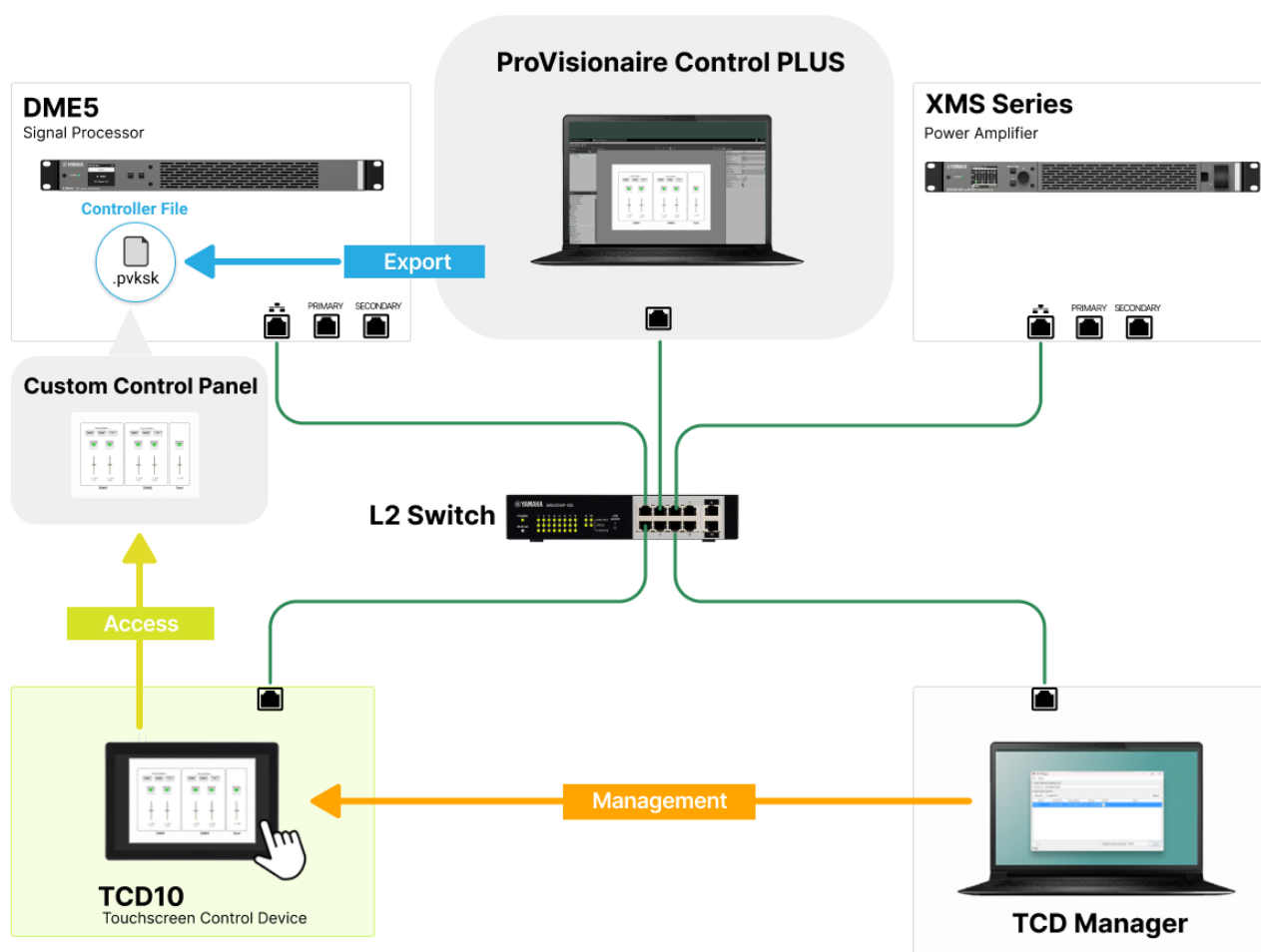
These are screws for securing the mounting bracket to this device.

⑤ USB port (for maintenance)

Do not connect devices to this port or use it for charging.

Device connection and integration

Refer to the example shown in the diagram below to connect the devices to be used to the PoE network switch by using Ethernet cables.



The following explains device integration, screen design and the underlying concepts of the system.

- Using ProVisionaire Control PLUS (installed on a Windows computer), an original operation screen (custom control panel) is created and imported into the DME5 or DME3 as a controller file (with the extension .pvsk).
- Based on the information in the controller file saved to the DME5 or DME3, connected devices work together by displaying screens on the TCD10 and sending/receiving operation information.



Note

- If the network switch does not support PoE, connect a PoE injector between the network switch and this device.
- Power may not be supplied by all ports of a PoE network switch or PoE injector. Connect this device to a port that supplies power.



Notice

- After disconnecting the Ethernet cable from the NETWORK port, wait at least 5 seconds before reconnecting the cable. Otherwise, damage or malfunctions may result.

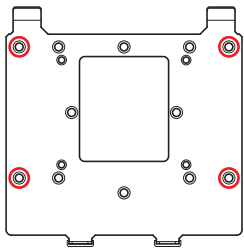
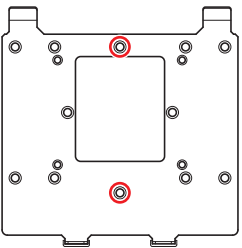
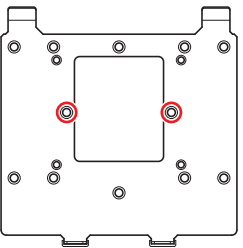
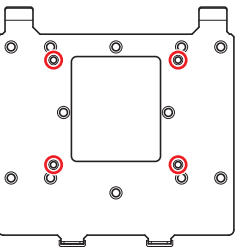
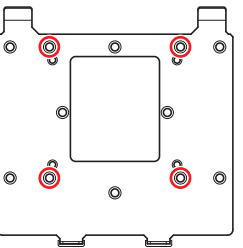
Installation

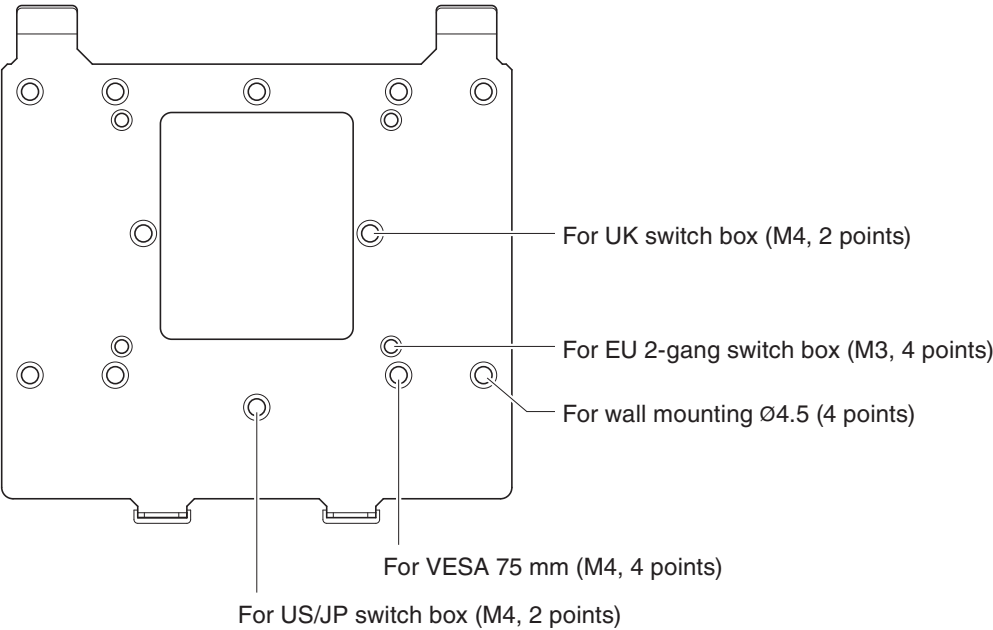
This device can be installed on a wall, in a switch box or using mounting methods compatible with the VESA standards. Alternatively, the tabletop stand (sold separately) can be used to set up this device on a table.

- Wall mounting (directly)
- Wall mounting (in a switch box)
- Attaching to a VESA mount (VESA standard)
- Installing on a Tabletop stand

About the mounting bracket

The mounting bracket is a plate attached to the back of this device and used to install the device on a wall, in a switch box, or on a commercially available VESA mount. The mounting bracket has screw holes designed to accommodate the following.

Wall mounting	Switch box (US type)	Switch box (UK type)	Switch box (2-gang EU type)	VESA mounting
				



Wall mounting (directly)

Items to prepare

The following items need to be provided.

- Wall-mounting screw (countersunk): M4 × 4

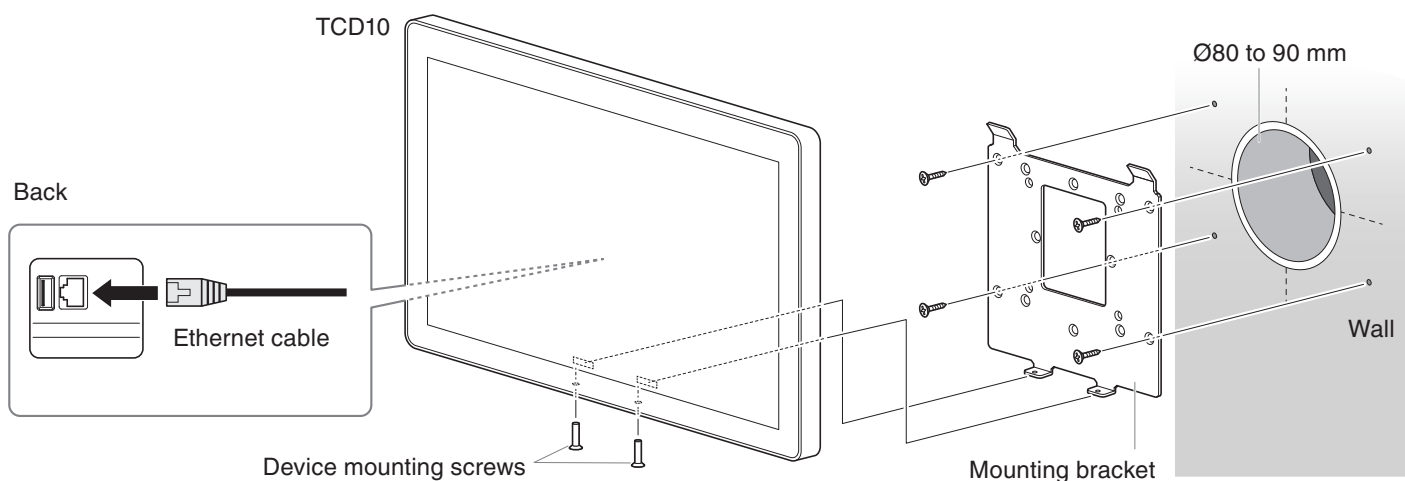
Installation procedure

Follow the steps below to mount this device directly on the surface of a wall.



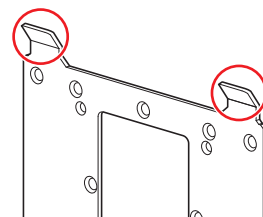
Caution

- Make sure in advance that the wall is strong enough to mount this device to it.
- Install this device no more than 2 meters from the ground.
If this device falls, it may become damaged or cause injury.



1. Loosen the device mounting screws to separate the TCD10 from its mounting bracket.
2. Attach the mounting bracket to the wall.
3. Connect the Ethernet cable to the NETWORK port.
4. Using the device mounting screws, secure the TCD10 to the mounting bracket.

Before securing the screws, make sure that the tabs at the top of the mounting bracket fit into the slots in the back of this device.



Note

- In order to use this device in the portrait orientation, rotate the mounting bracket 90° either clockwise or counterclockwise.
- The screen orientation can be changed in the Launcher application via the following.
[Settings] → [Display] → [Screen Display Settings] → [Screen Rotation]

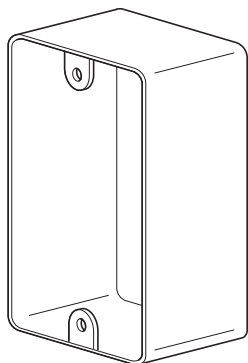
Wall mounting (in a switch box)

Items to prepare

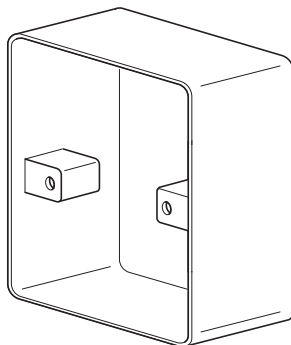
The following items need to be provided.

- Switch box (US type, UK type or 2-gang EU type)
- Screw (countersunk) for installing onto US type or UK type: M4 × 2
- Screw (countersunk) for installing onto EU type: M3 × 4

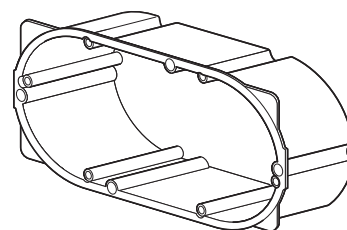
This device is compatible with the following types of switch boxes.



Switch box
(US type)



Switch box
(UK type)



Switch box
(2-gang EU type)

Installation procedure

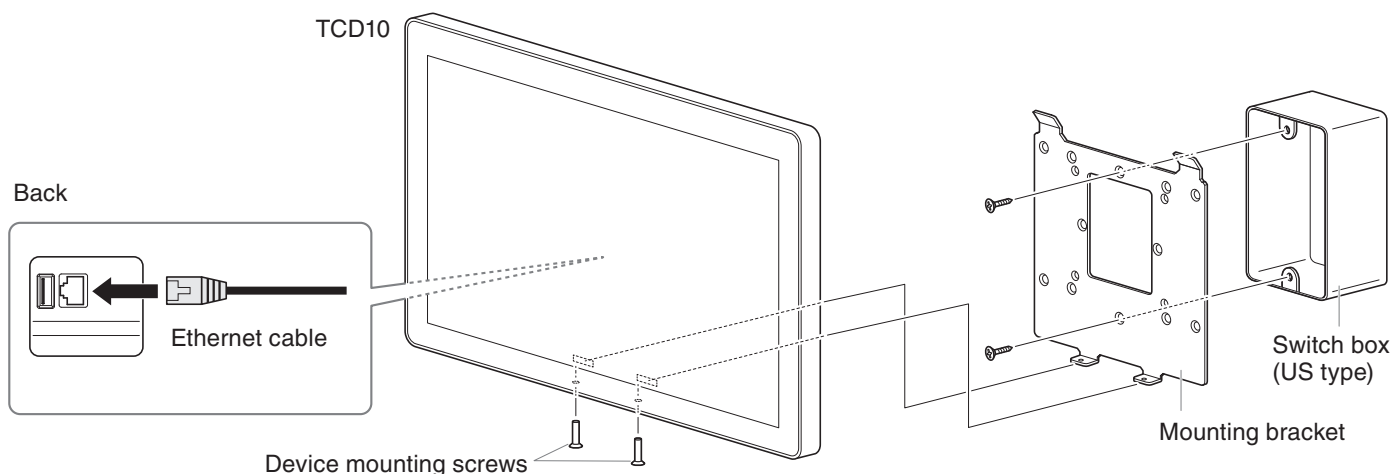
Follow the steps below to mount this device to a wall, using a commercially available switch box.



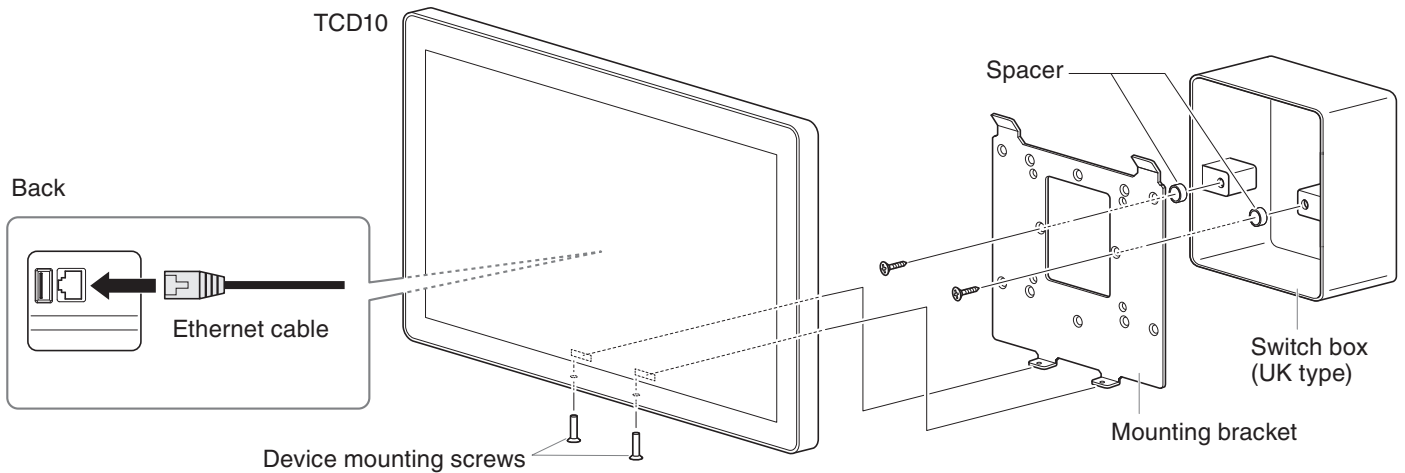
Caution

- Make sure in advance that the wall is strong enough to mount this device to it.
- Install this device no more than 2 meters from the ground.
If this device falls, it may become damaged or cause injury.
- Securely attach the switch box to the wall.

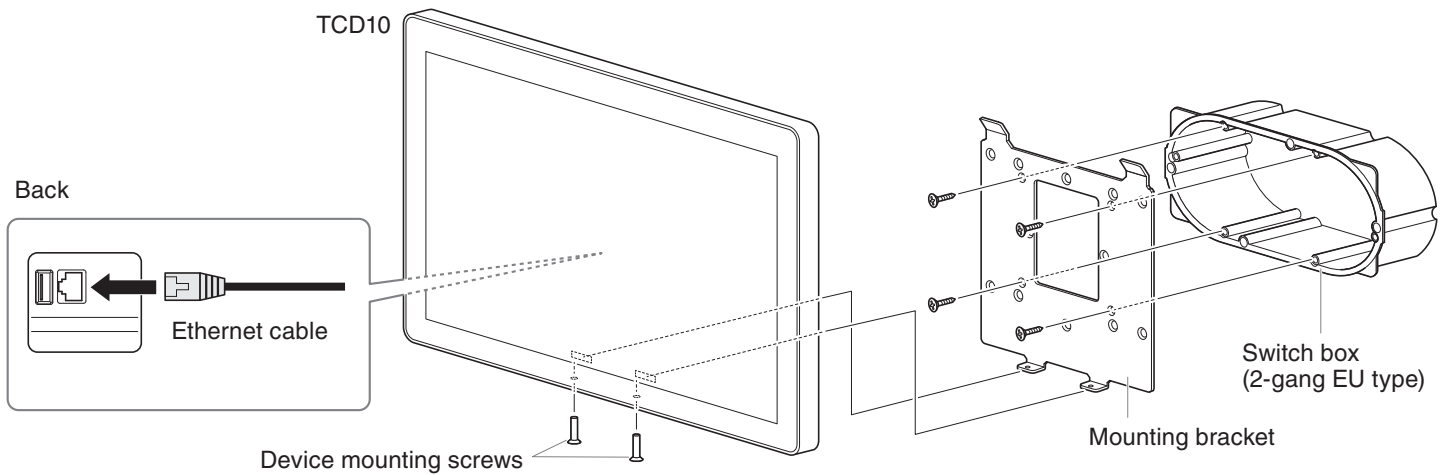
When using a commercially available switch box (US type) to mount the TCD10 in the landscape orientation to a wall



When using a commercially available switch box (UK type) to mount the TCD10 in the landscape orientation to a wall



When using a commercially available switch box (2-gang EU type) to mount the TCD10 in the landscape orientation to a wall



1. Loosen the device mounting screws to separate the TCD10 from its mounting bracket.

2. Attach the mounting bracket to the switch box in order to secure it to the wall.

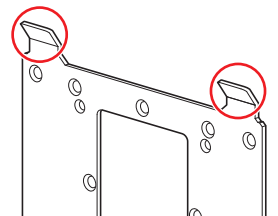
Be sure to use the mounting bracket holes that match the switch box type.

With UK-type switch boxes, insert the included spacers if necessary.

3. Connect the Ethernet cable to the NETWORK port.

4. Using the device mounting screws, secure the TCD10 to the mounting bracket.

Before securing the screws, make sure that the tabs at the top of the mounting bracket fit into the slots in the back of this device.



Note

- In order to use this device in the portrait orientation, rotate the mounting bracket 90° either clockwise or counterclockwise.
- The screen orientation can be changed in the Launcher application via the following.
[Settings] → [Display] → [Screen Display Settings] → [Screen Rotation]

Attaching to a VESA mount (VESA standard)

Items to prepare

The following items need to be provided.

- Mount compatible with 75 × 75 mm VESA standard

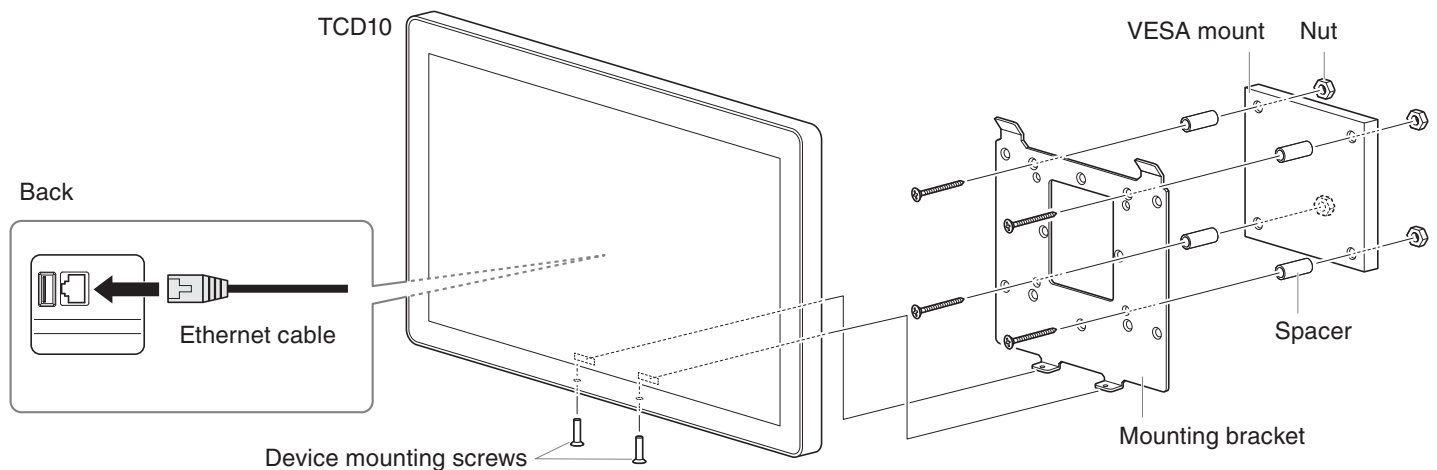
Installation procedure

Follow the steps below to attach this device to a VESA mount.



Caution

- Install this device no more than 2 meters from the ground. Make sure in advance that the mounting surface is strong enough to support this device. If this device falls, it may become damaged or cause injury.



1. Loosen the device mounting screws to separate the TCD10 from its mounting bracket.

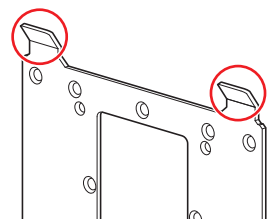
2. Attach the mounting bracket to the VESA mount.

Spacers, screws and nuts are included.

3. Connect the Ethernet cable to the NETWORK port.

4. Using the device mounting screws, secure the TCD10 to the mounting bracket.

Before securing the screws, make sure that the tabs at the top of the mounting bracket fit into the slots in the back of this device.



Note

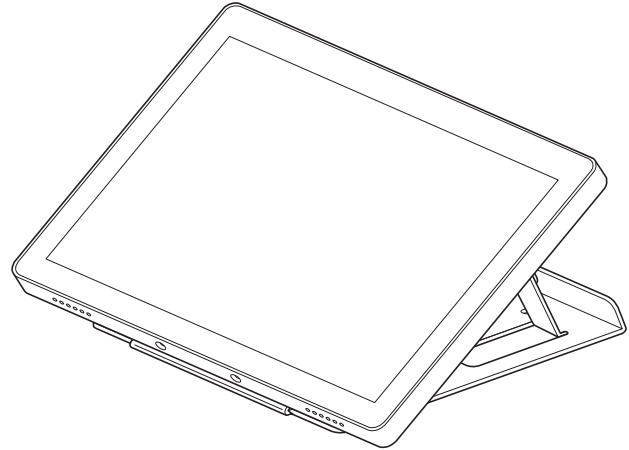
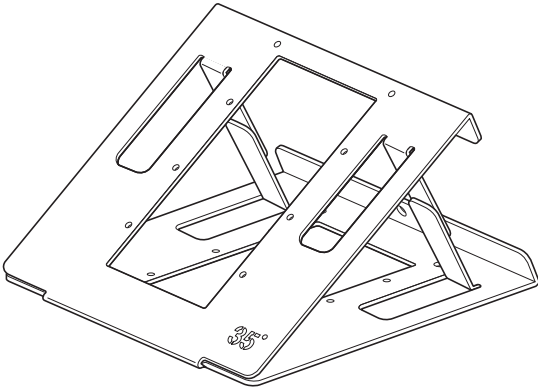
- In order to use this device in the portrait orientation, rotate the mounting bracket 90° either clockwise or counterclockwise.
- The screen orientation can be changed in the Launcher application via the following.
[Settings] → [Display] → [Screen Display Settings] → [Screen Rotation]

Installing on a Tabletop stand

TS-TCD10 Tabletop stand (sold separately)

The TCD10 can be installed in either the portrait or landscape orientation and at either of two angles. For details on this installation, refer to the manual included with the TS-TCD10.

Installation example



Setup

This section provides information on the setup procedure after the installation is completed.

Turning on this device

Connecting a PoE-powered Ethernet cable turns on this device. The TCD Launcher application then starts automatically, and the operation screen (controller file) appears.

Default startup

If only one DME5 or DME3 is connected to the network, the operation screen (controller file) for that signal processor appears. If multiple signal processors are connected, the operation screen for the first one detected appears.

Displaying the operation screen (controller file) for a specific device

When multiple signal processors are connected, use the following functions in the TCD Launcher application to display the desired operation screen (controller file).

GO TO function

This allows you to switch the operation screen (controller file) by selecting the desired signal processor from a list of those in the network.

Home function

This allows you to set the currently displayed operation screen (controller file) to be the home screen as with a web browser. Touching the home icon or starting the TCD Launcher application will now display the specified operation screen.

Appendix

Updating software

Use TCD Manager to update the TCD Launcher application or update the TCD10 operating system.

Information on software updates will be posted on the following website.

<https://www.yamahaproaudio.com/>

Updating using TCD Manager

Remotely update the TCD10 from the computer where TCD Manager is installed. For details, refer to the Operation Guide included in the installation package for TCD Manager.

Resetting to factory defaults (initialization)

In order to reset this device to its factory defaults, it must be started up using a specific procedure for entering the dedicated mode.

What can be done in the dedicated mode

- Factory Reset : This resets all TCD Launcher application settings.
- Network Reset : This initializes only network settings.
- Reboot : This exits the dedicated mode and restarts this device.

Entering the dedicated mode

To enter the dedicated mode, turn on this device (by connecting the Ethernet cable), and then, once the TCD Launcher application screen appears, hold five fingers on the screen for five seconds.



Note

- If 10 seconds have elapsed after the TCD Launcher application screen appeared, it will no longer be possible to enter the dedicated mode. Try again after turning on this device.



Troubleshooting

If the password has been lost

If the password for accessing the settings screen of the TCD Launcher application has been lost, this device must be reset to its factory defaults. Refer to “Resetting to factory defaults (initialization)” to perform the Factory Reset operation.

Main specifications

General specifications

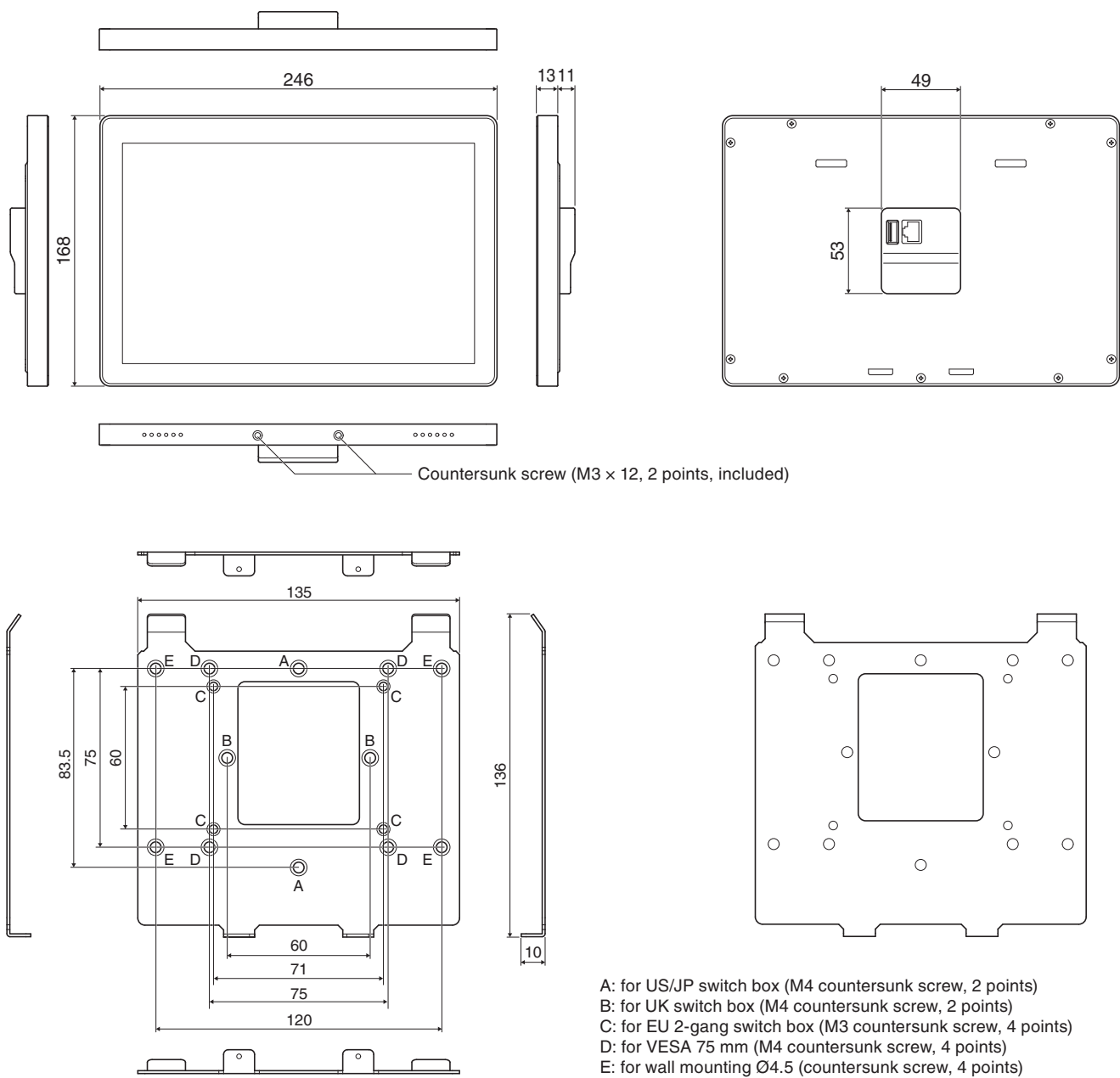
External dimensions		246 (W) × 24 (D) × 168 (H) mm
Weight		1.0 kg
Power requirements		PoE (IEEE 802.3af), DC 48 V
Power consumption		10.8 W (standby 1.56 W)
Operation	Temperature	0 °C to 40 °C
	Humidity	30%–80% (no condensation)
Storage	Temperature	–20 °C to 60 °C
	Humidity	10%–90% (no condensation)
Included items		Read This First × 1, VESA mount spacer × 4, screw and nut for VESA mount spacer × 4, spacer for UK-type switch box × 2 (Mounting bracket × 1 and device mounting screw × 2 pre-installed)
Display		10.1" IPS (1280 × 800 pixel, 16:10)
Input/output connectors		RJ-45 (PoE) × 1 USB 2.0 host × 1 (for maintenance)
Color		Black
Material		Aluminum

Network specifications

Standard	10/100BASE-TX
Cable requirements	CAT5e or higher (STP)

This document is based on the latest specifications at the time of publication. The latest version can be downloaded from the Yamaha website.

Dimensional diagram



Units: mm