



Wall-Mount Controller

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# MCP2 Reference Manual

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# Introduction

The MCP2 is a wall-mount controller that can be used to control Yamaha devices, including the DME5 and DME3 signal processors, as well as devices manufactured by other companies that have released compatible remote protocols.

This Reference Manual provides detailed information on configuring and operating the MCP2. In order to take full advantage of the various functions of this device, refer to this Reference Manual as necessary.

In this document, MCP2W-US, MCP2W-EU, MCP2B-US and MCP2B-EU are collectively referred to as MCP2.

## Features

### ✓ 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.

### ✓ Compatible with ProVisionaire Design

Using the ProVisionaire Design application software, which allows you to design an entire sound system, you can conveniently configure and manage all of your sound system components, including the DME5 and DME3.

### ✓ Supports network control of non-Yamaha devices

Any of the various network devices with released control protocols, such as projectors and IP cameras, can also be controlled.

## About this document

This document uses the following signal words for important information.

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

- The illustrations and screens in this document are for instructional purposes only.
- The company names and product names in this document are trademarks or registered trademarks of their respective companies.
- Yamaha is continuously improving the software for their 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

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- Controller × 1
- Plastic cover × 1
- Spacer × 2 (MCP2W-EU/MCP2B-EU only)
- MCP2 Owner's Manual × 1

## Items to prepare

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Some items will need to be prepared beforehand in order to mount this device to a wall.

- **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.

- **1-gang switch box (depth of 40 mm or more)**

It is used to mount this device to a wall. Prepare a US-type box for MCP2W-US/MCP2B-US or a UK-type box for MCP2W-EU/MCP2B-EU.

- **Screws for mounting to switch box**

These are used to secure the controller to the switch box. Prepare screws appropriate for the switch box and wall thickness.

**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

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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 Design

This is Windows application software for designing an integrated system of devices such as signal processors, power amplifiers and audio interfaces. It is used to customize the screens and parameters displayed on the MCP2 and to specify the various settings.

For details, refer to the "ProVisionaire Design User Guide."

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

## Available documentation

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Documentation for this device can be downloaded from the product information page.

Yamaha Pro Audio global website

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

### Product manuals

- |  |  |
|--|--|
| <input type="checkbox"/> Owner's Manual (included)                   | It provides precautions for handling and using this device safely.                   |
| <input checked="" type="checkbox"/> Reference Manual (this document) | It provides all the information necessary for configuring and operating this device. |

### Related documentation

- |   |  |
|---|--|
| <input type="checkbox"/> ProVisionaire Design User Guide        | It explains how to use the ProVisionaire Design application software to configure this device from a computer.                   |
| <input type="checkbox"/> Remote Control Protocol Specifications | It provides detailed information on commands for acquiring device information and controlling this device from external devices. |

## Updating the firmware

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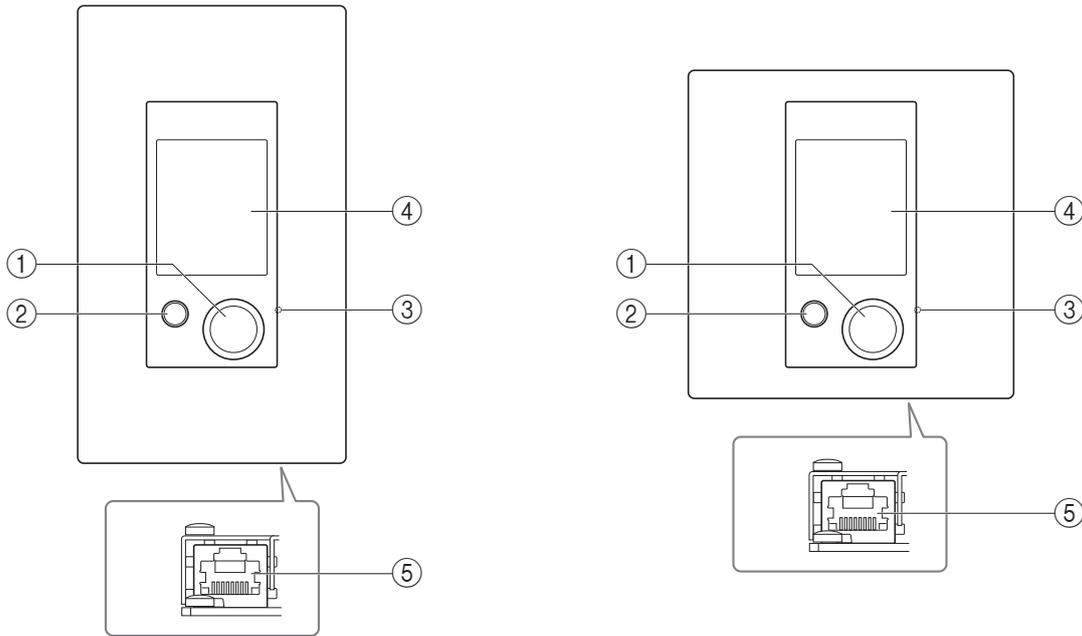
This device is designed to allow its firmware to be updated in order to improve operability, add functions and fix problems.

Firmware updates for this device are performed with ProVisionaire Design. For operating procedures, refer to the "ProVisionaire Design User Guide."

Information on firmware updates will be posted on the following website. The latest firmware can be downloaded from the following website.

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

# Part names and functions



## ① Main knob

Turn the main knob to select a parameter or change the parameter setting. Press the main knob to switch the screen or perform the toggle or one-shot function.

## ② BACK button

Short-press to return to the previous screen. Long-press (at least 2 seconds) to go to the screen specified with ProVisionaire Design.

## ③ RESET button

Initializes this device when long-pressed (at least 4 seconds) with a pin. Initializing requires removing the plastic cover. You can perform a factory reset or a network reset. For details, refer to “Resetting to factory defaults (initialization)” on page 12.

## ④ Display

The “Home” and eight other “Pages” can display up to 64 parameters and other information. The information to be displayed can be configured with ProVisionaire Design. For details, refer to “List of functions” on page 10.

## ⑤ NETWORK port

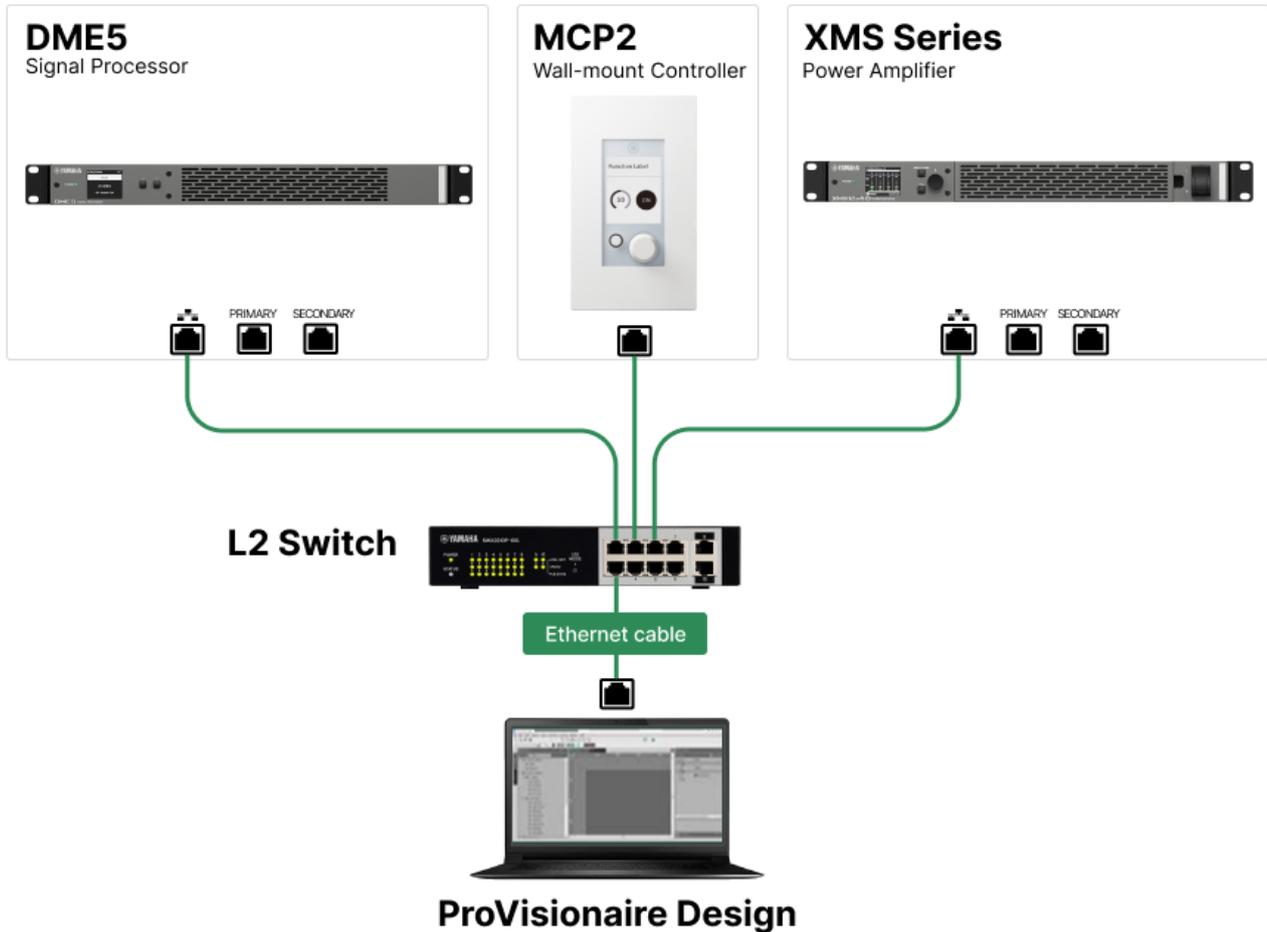
RJ-45 port for connecting this device to a network.

If the main knob, BACK button or RESET button is not operated for a certain period of time, the display goes off. Operate the main knob, BACK button or RESET button to turn on the display again. Use ProVisionaire Design to specify the length of time until the display goes off, the locking PIN code, and the screen that is displayed when this device is unlocked.

# Connecting the device

Connect the devices. Refer to the diagram below to connect this device to peripheral devices by using Ethernet cables.

## Connection diagram



Connect this device and the device to be controlled to a PoE network switch by using Ethernet cables. 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. For details on configuring this device and controlling other devices, refer to the “ProVisionaire Design User Guide.”

## Connecting to peripheral devices



### 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

## Items to prepare

Some items will need to be prepared beforehand in order to mount this device to a wall.

- **PoE Ethernet cable (CAT5e or higher)**
- **1-gang switch box (depth of 40 mm or more)**
- **Screws for mounting to switch box**

## Installation procedure

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



### Caution

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

Mount a switch box to the wall, and then feed the Ethernet cable connected to the PoE power supply device into the switch box.

### 1. Connect the Ethernet cable to the NETWORK port.

Plug the Ethernet cable connected to the PoE power supply device into the NETWORK port on the back of this device.

### 2. Using commercially available screws, attach the controller to the switch box mounted on the wall.

Align the corresponding holes in the controller with the two holes in the switch box, and then secure with screws. (MCP2W-EU/MCP2B-EU only) When attaching to a surface mount box, insert the included plastic spacers to fill the gap between the box's edge and the face of screw holes of the box. Adjust the height of spacers if needed.

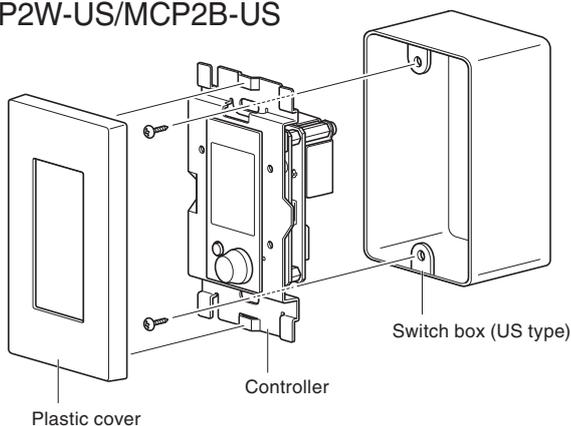
### 3. Attach the plastic cover to the controller.

With the notch positioned at the bottom, secure the cover.

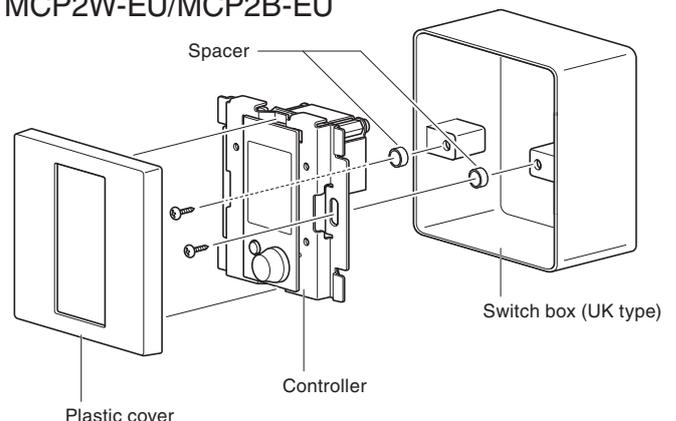
### 4. Turn on the PoE power supply device.

If “Function Preview” appears, the PoE power supply device and this device are properly connected. For details on the “Function Preview” screen, refer to “Setup” on page 9.

#### MCP2W-US/MCP2B-US



#### MCP2W-EU/MCP2B-EU



### Note

- To remove the plastic cover, insert a flathead screwdriver or similar tool into the notch at the bottom of the cover, and then lift off the cover. Be careful not to damage the plastic cover.

# Setup

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

## Turning on this device

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This device starts up when it is connected to the PoE power supply device with an Ethernet cable. When this device is in its factory default condition, “Function Preview” appears. The “Function Preview” screen shows what you can do with this device in its factory default condition. In order to perform functions, be sure to configure this device with ProVisionaire Design.

### Function Preview

From the “Function Preview” screen, you can review system information (“Device Information”), select the screen color (“Color Set”), select the display brightness (“LCD Brightness”), and view the operation screens (“Demo Parameters”). If the main knob, BACK button or RESET button is not operated for 30 seconds, the display goes off. To go to the “Home”, long-press (at least 2 seconds) the BACK button. For details on the functions, refer to “List of functions” on page 10.

<b>Function Preview</b>
<b>Device Information</b>
<b>Color Set</b>
<b>LCD Brightness</b>
<b>Demo Parameters</b>

## Configuring with ProVisionaire Design

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Use ProVisionaire Design to configure this device. The ProVisionaire Design functions related to this device are listed below.

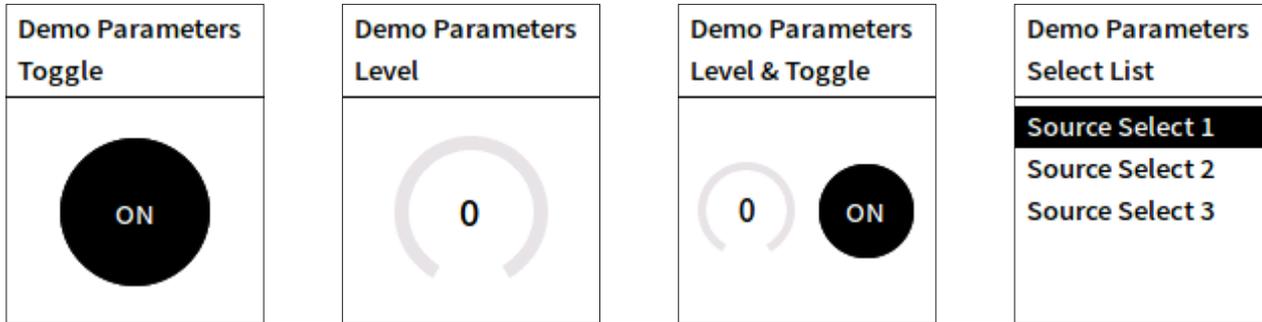
- ✓ Customizing the screen configuration and assigning parameters for functions to be performed
- ✓ Specifying utility settings such as background and font color as well as display brightness
- ✓ Checking network settings and firmware version
- ✓ Updating the firmware

If ProVisionaire Design was used to specify the screen configuration that appears on this device, the specified screen configuration appears after the “Function Preview” screen is exited. For details on the functions that can be configured with ProVisionaire Design, refer to the “ProVisionaire Design User Guide.”

# List of functions

## Operation screens

The operation screens for the parameters consist of the following controls and list.



### Toggle

This type of screen allows you to change a parameter by performing the appropriate operation (pressing the main knob). Assign a toggle parameter such as mute on/off, or a one-shot parameter such as recalling a system preset. If a toggle parameter has been assigned, the on-screen text indicates the current setting and is toggled by performing the appropriate operation.

### Level

This type of screen allows you to change a parameter by performing the appropriate operation (turning the main knob). Assign a fader parameter such as the speaker volume control. The current setting is displayed as a number and as a level on the meter.

### Level & Toggle

This type of screen displays two different parameters in one screen, and allows you to change each parameter by performing the appropriate operation (turning or pressing the main knob). Assign two parameters. This allows you to, for example, adjust the speaker volume and mute the microphone, without switching screens.

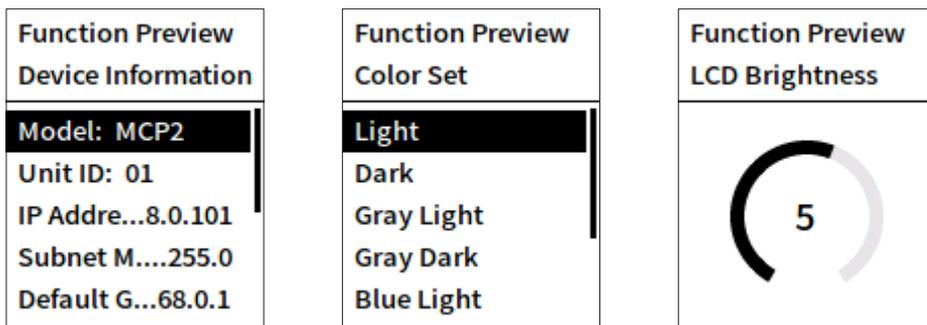
### Select List

This type of screen displays a list of system presets or any other group of settings, which can be changed by performing the appropriate operation (turning the main knob to select and pressing to confirm). Assign one-shot parameters. After creating up to eight MCP2 screen configuration presets, you can easily select one from the list in the MCP2 display.

## Device information and display settings

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Settings for the following parameters can be displayed or changed.



### Device Information

This screen allows you to view device information. The model name, IP address, etc., are displayed.

### Color Set

This screen allows you to change the color set. You can choose from eight different display background and font colors.

### LCD Brightness

This screen allows you to change the display brightness to one of eight levels. The larger the number, the brighter it is.

## Other functions

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Using ProVisionaire Design, the following functions can also be used.

### MCP2 presets

Up to eight MCP2 presets, including screen configurations and color sets, can be saved.

### BACK button setting

Specify the screen that appears when the BACK button is long-pressed. As the factory default, the "Home" appears.

### Time until display goes off

Specify the length of time from the last operation performed on the MCP2 until the display goes off. As the factory default, the display goes off after 30 seconds.

### Screen that appears when the display is turned on

Select the screen that appears when the display is turned on.

### PIN lock

Specify a PIN lock to prevent unintentional operation. If a PIN lock has been specified, an input screen appears when the display is turned on again.

# Appendix

## Resetting to factory defaults (initialization)

To reset this device to its factory default condition, long-press the RESET button with a pin.

### 1. With this device turned on, long-press (at least 4 seconds) the RESET button.

The reset options will appear in the display.

Reset option	Description
Factory Reset	All settings will be reset to their factory defaults.
Network Reset	Network-related settings will be reset.

### 2. Turn the main knob to select the desired reset option, and then press the main knob to confirm.

This completes the initialization of this device. Once initialization is finished, this device will restart automatically.



#### Note

- If the PIN code for canceling the PIN lock has been lost, reset all settings, and then specify them again.

## Main specifications

### General specifications

	MCP2W-US	MCP2B-US	MCP2W-EU	MCP2B-EU
<b>Color</b>	White	Black	White	Black
<b>Dimensions</b>	W70 × H120 × D52 mm		W86 × H86 × D52 mm	
<b>Weight</b>	0.2 kg			
<b>Power Requirements</b>	PoE (IEEE 802.3af), DC 48 V			
<b>Power Consumption</b>	2.2 W			
<b>In Operation</b>	<b>Temperature</b>	0 °C to 40 °C		
	<b>Humidity</b>	30% to 90% (No Condensation)		
<b>Storage</b>	<b>Temperature</b>	-20 °C to 60 °C		
	<b>Humidity</b>	20% to 90% (No Condensation)		
<b>Accessories</b>	Owner's Manual ×1, Plastic Cover ×1		Owner's Manual ×1, Plastic Cover ×1, Spacer ×2	
<b>Display</b>	1.77" Color LCD (128×160)			
<b>I/O Terminal</b>	RJ-45 (PoE) ×1			
<b>Material</b>	Unpainted Plastic(AES)			

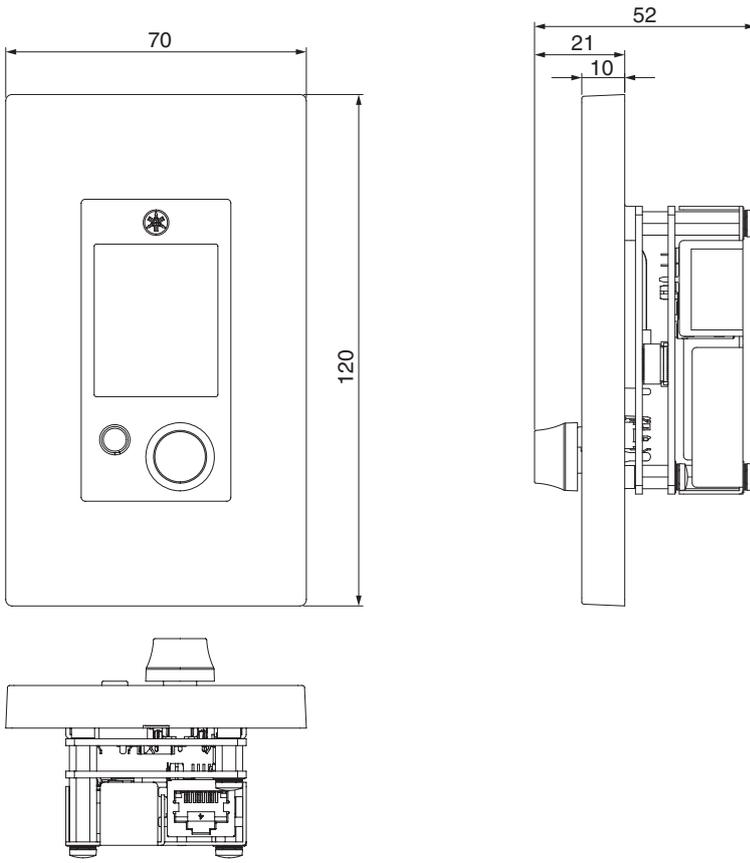
### Network specifications

<b>Level</b>	100BASE-TX
<b>Cable Requirements</b>	CAT5e or higher (STP)

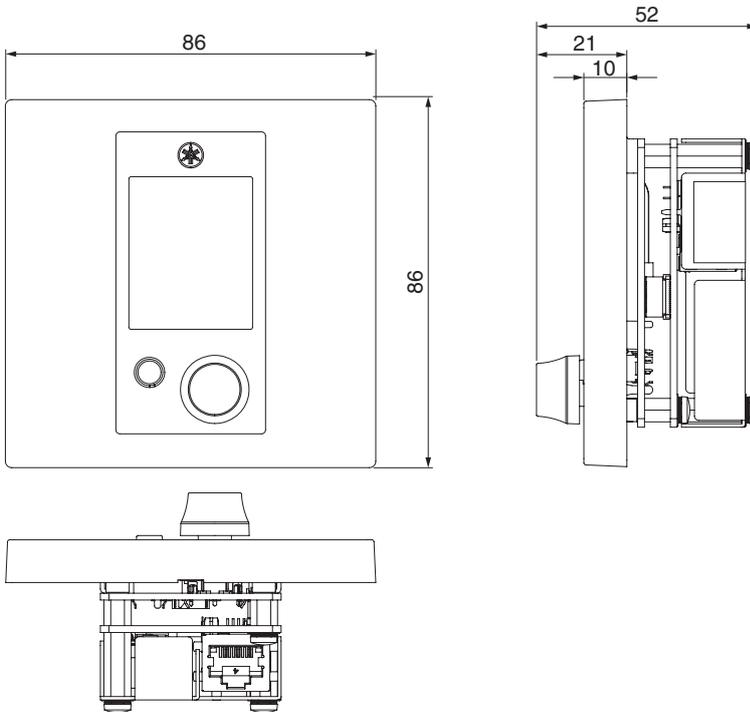
This document is based on the latest specifications at the time of publication. The latest version can be downloaded from the Yamaha website.

# Dimensional diagram

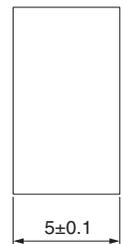
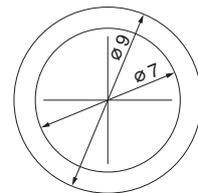
## MCP2W-US/MCP2B-US



## MCP2W-EU/MCP2B-EU



Spacer



Units: mm

