

Yamaha LAN Monitor

User Guide

EN

Information

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Important

This software requires one or more L2MS function compatible Yamaha switches to be found on the network. Note that this software will not function until an L2MS function compatible Yamaha switch is found.

About Yamaha LAN Monitor

The Yamaha LAN Monitor provides information on Yamaha switches and Yamaha wireless LAN access points, and is used to monitor and control connected devices on your PC.

The main functions are as follows.

- You can detect the network topology and visualize the entire network.
- The port status, bandwidth, and power supply status of Yamaha switches and Yamaha wireless LAN access points can be viewed.
- You can monitor the status of each Dante-enabled device that exists on the network.
- You can also access Dante Controller with a single click, and unify the Dante network from a single computer.
- You can confirm the presence of network cameras (for emergency monitoring) and other devices.
- Stopping and restarting the power supply from a Yamaha PoE switch to automatically/manually restart devices connected to a Yamaha PoE switch.
- You can open the Web GUI of a Yamaha switch or Yamaha wireless LAN access point on the network to view or edit its settings.
- You can view and change the settings of SWX2200 series devices that are not equipped with Web GUI.
- The snapshot function ([page 16](#)) is useful for automatically testing network abnormalities or troubleshooting.
- You can assign identification labels to each device.
- The Yamaha LAN Monitor software is the follow up to the Yamaha Audio Network Monitor. Yamaha LAN Monitor can load snapshots and labels saved in Yamaha Audio Network Monitor.

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Terminology

L2MS (Layer2 Management Service)	A system for managing Yamaha network devices at the layer 2 level
Master	The L2MS master device (Yamaha LAN Monitor, Yamaha router, etc.)
Slave	<ul style="list-style-type: none"> • Yamaha switch • Yamaha wireless LAN access point
Device	<ul style="list-style-type: none"> • Dante-enabled device • Computer, etc.
Snapshot	Status of connected devices which is saved within the Yamaha LAN Monitor
Snapshot file	A file storing snapshots

Notes regarding device detection

- Switches made by another manufacturer and slaves and devices that are subordinate to a router made by another manufacturer cannot be shown correctly.
- Devices that are connected to a switch made by another manufacturer are shown as devices connected to the immediately previous slave. However, depending on the structure of the network, it might not be possible to show them.
- Do not connect L2MS master devices that are not Yamaha LAN Monitor to the network.

Notes regarding Yamaha PoE switch detection

When a Yamaha PoE switch is detected, power will also be supplied to PoE receiving devices connected to ports not configured to supply power.

Notes regarding the power supply interruption function for the Yamaha PoE switch

Turn off the power supply interruption function for the Yamaha PoE switch when updating the firmware version of a PoE receiving device which is supplied power from the Yamaha PoE switch. Turn this function back on when the firmware update process is complete. The power supply interruption function may interrupt the power supply while updating firmware.

Interrupting the power supply may prevent the firmware update process from completing normally, possibly making the device unusable.

To turn off the power supply interruption function for the Yamaha PoE switch, clear the Keepalive check box in the “Connected Devices” view.

For details, refer to the description provided for the Keepalive check box in list (2) for the “Connected Devices” view (page 26).

Notes regarding a slave whose stack function is enabled

Management of a slave whose stack function is enabled is not supported. Note that, even though detection is possible, correct information cannot be displayed.

Steps to use the software

1	Compare the operating requirements for Yamaha LAN Monitor with your computer’s operating environment.	page 4
2	Install Yamaha LAN Monitor.	page 5
3	Configure network settings on your computer.	page 8

Software operating requirements

OS	Windows 7, Windows 8.1, Windows 10 (both 32-bit and 64-bit editions of Windows are supported)
CPU	32 bit: 2 GHz or faster Intel Core/Pentium/Celeron family processor 64 bit: Processor that supports Intel64 (however, the program runs in 32-bit operation).
Hard disk space	200 MB or more free space (not including the Dante Controller)
Other	Mouse or other pointing device Ethernet (1000BASE-T/100BASE-TX/10BASE-T) (This will not work via wireless LAN.)

NOTE

The operating requirements listed above are for Yamaha LAN Monitor version 1.3.6.

Refer to the following URL for the latest information on the current version of the software and operating requirements.

<http://www.yamaha.com/products/en/network/>

<http://www.yamaha.com/proaudio/>

Depending on the computer you’re using, the operating requirements might be greater than listed above.

Installing and uninstalling Yamaha LAN Monitor

Installation

Follow the steps below to install Yamaha LAN Monitor.

1. Double click the downloaded file.

The Yamaha LAN Monitor setup dialog box appears.

NOTE

If the “User Account Control” dialog box appears, click [Yes].

2. Perform the installation as directed in the screen.

NOTE

During the installation procedure, a dialog box will ask you to install the WinPcap and Dante Discovery / Dante Control and Monitoring functions. If the WinPcap function has not been installed, install it as directed. If you use Yamaha switches on the Dante network and if you have not installed the Dante Discovery/Dante Control and Monitoring functions, install these functions in addition to the WinPcap function.

Uninstallation

You can uninstall Yamaha LAN Monitor from the Control Panel.

The appearance of the control panel will differ depending on the version of Windows.

1. Go to [Control Panel] → [Programs and Features] or [Uninstall a program], select “Yamaha LAN Monitor” and then click [Uninstall] or [Uninstall or change].

A dialog box appears.

2. Perform the uninstallation as directed in the screen.

NOTE

- If the “User Account Control” dialog box appears, click [Yes].
- WinPcap and Dante Discovery / Dante Control and Monitoring functions will not be uninstalled. If you want to uninstall these functions as well, make sure that other applications are not using them, and then uninstall them individually using [Uninstall] or [Uninstall or change].

Installing Dante Controller

Dante Controller must also be installed to launch Dante Controller from Yamaha LAN Monitor. For details on installing Dante Controller, refer to the “Dante Controller User Guide.”

You can download Dante Controller and the Dante Controller User Guide from the downloads page of the website below.

<http://www.yamaha.com/proaudio/>

NOTE

When the computer to install the Yamaha LAN Monitor has two or more network adapters, the network adapter that is connected to the Dante network must be selected by Dante Controller. For example, laptops which can two types of LAN connection, wireless and wired, are also included in this case.

Starting and exiting Yamaha LAN Monitor

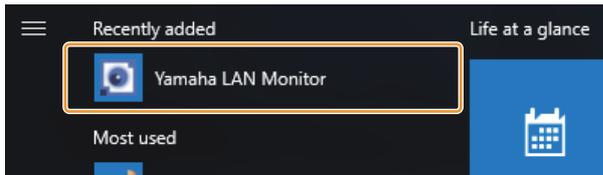
Starting

Start Yamaha LAN Monitor in one of the following ways.

A different startup sequence is used when directly starting up Yamaha LAN Monitor, and when starting it up from a snapshot file (nms file) saved on your computer.

- **Start Yamaha LAN Monitor from the Start menu or from a shortcut.**

Load a snapshot file held by Yamaha LAN Monitor to display comparison results for the current network status and the snapshot file in the “Tree” view. If there is no snapshot file, only the current network status appears in the “Tree” view.



- **Double click a snapshot file (.nms file) saved to your computer to start up Yamaha LAN Monitor.**

Load the double clicked snapshot file to display comparison results for the current network status and the snapshot file in the “Tree” view.



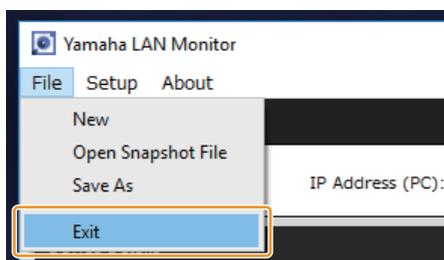
NOTE

Snapshot is a function that stores the network connection status to Yamaha LAN Monitor. A snapshot file is a .nms file with snapshot data written to it. For more information about the snapshot function, refer to “Using the snapshot function” ([page 16](#)).

Exiting

Exit Yamaha LAN Monitor in one of the following ways.

- **Select the [File] menu in the menu bar, then click [Exit].**



- **Click the [x] button on the top right of the window.**

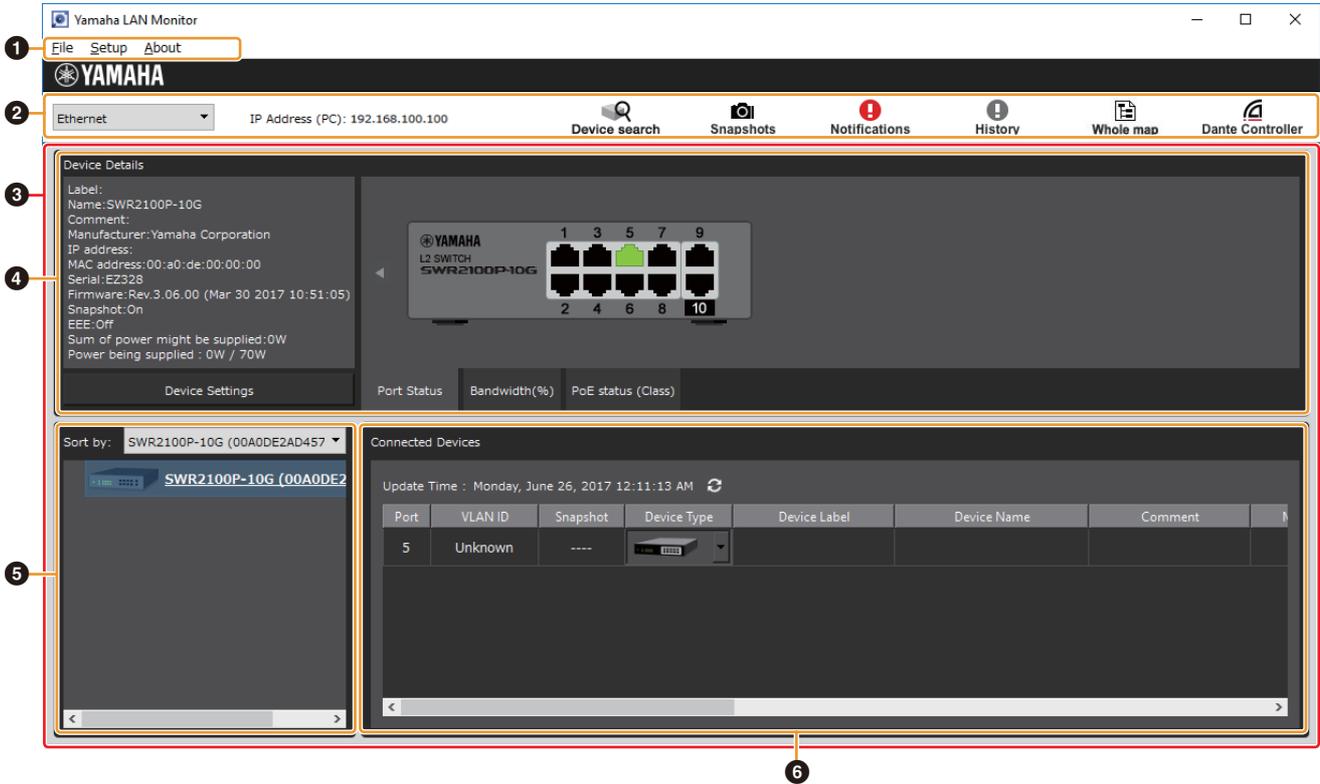


NOTE

When exiting Yamaha LAN Monitor, the window size and position, the device selected and the splitter status are stored together with the “Basic Settings” configured so that the operating environment when exiting Yamaha LAN Monitor is restored when restarting.

Yamaha LAN Monitor screen structure

The Yamaha LAN Monitor screen lists the current network status in the “Tree” view. Also, you can verify the connection status of the devices, or change some slave settings. The names of each component of the Yamaha LAN Monitor screen are described below.

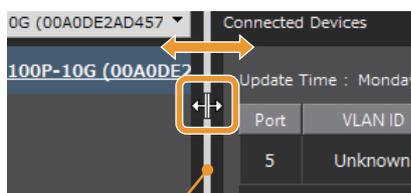


- ❶ Menu bar (page 11)
- ❷ Toolbar and display area (page 14)
- ❸ Main screen (page 20)
- ❹ “Device Details” view (page 20)
- ❺ “Tree” view (page 25)
- ❻ “Connected Devices” view (page 26)

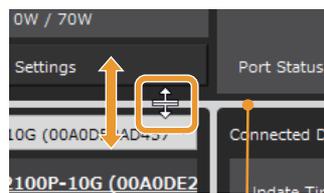
Making screen layout changes

Use the screen splitter to freely resize view borders.

- **Changing the width of the “Tree” view and the “Connected Devices” view**
 Drag the splitter horizontally (left and right) to resize.
- **Changing the height of the “Device Details” view, the “Tree” view, and the “Connected Devices” view**
 Drag the splitter vertically (up and down) to resize.



Splitter



Splitter

Network settings on the computer

Configure network settings for your computer.

1. Connect the computer to a network device.

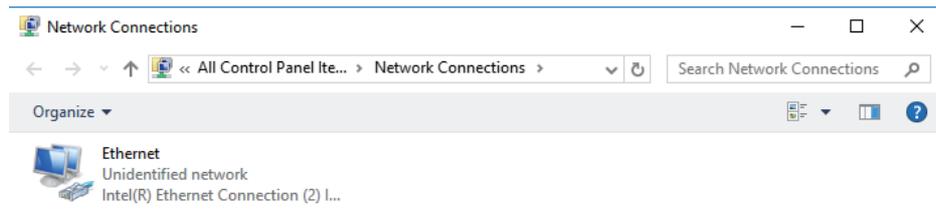
2. Start Yamaha LAN Monitor.

NOTE

If the “User Account Control” dialog box appears, click [Yes].

3. Click the [Setup] menu on the menu bar → [Open IP Settings for PC].

The “Network Connections” window appears.



4. Right-click the network adapter to which the network device is connected, and click [Properties].

The “Ethernet Properties” dialog box appears.

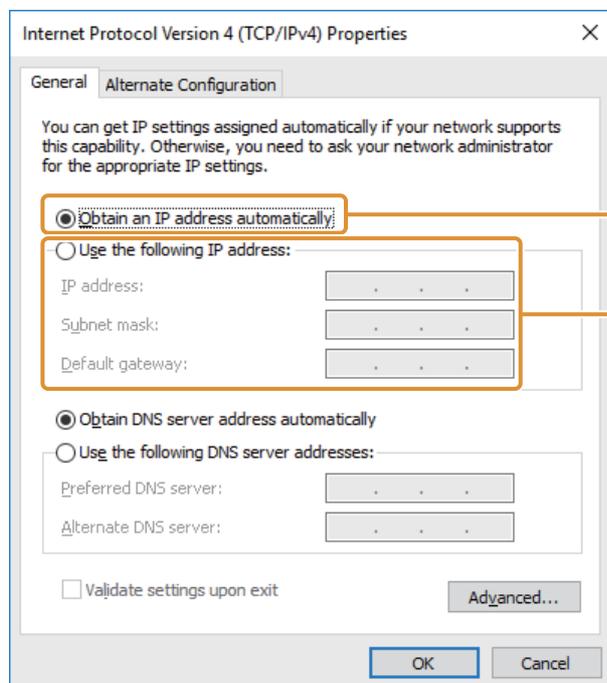
5. Select [Internet Protocol Version 4 (TCP/IPv4)], and click [Properties].

The “Internet Protocol Version 4 (TCP/IPv4) Properties” dialog box appears.

NOTE

If the [Internet Protocol Version 4 (TCP/IPv4)] check box is not selected, make sure to select it.

6. Set your IP address.



If the network is configured using DHCP
Select [Obtain an IP address automatically].

If a static IP address is set for each device
Select [Use the following IP address] and enter an address.

7. Click [OK].

8. Close the “Ethernet Properties” dialog box and the “Network Connections” window.

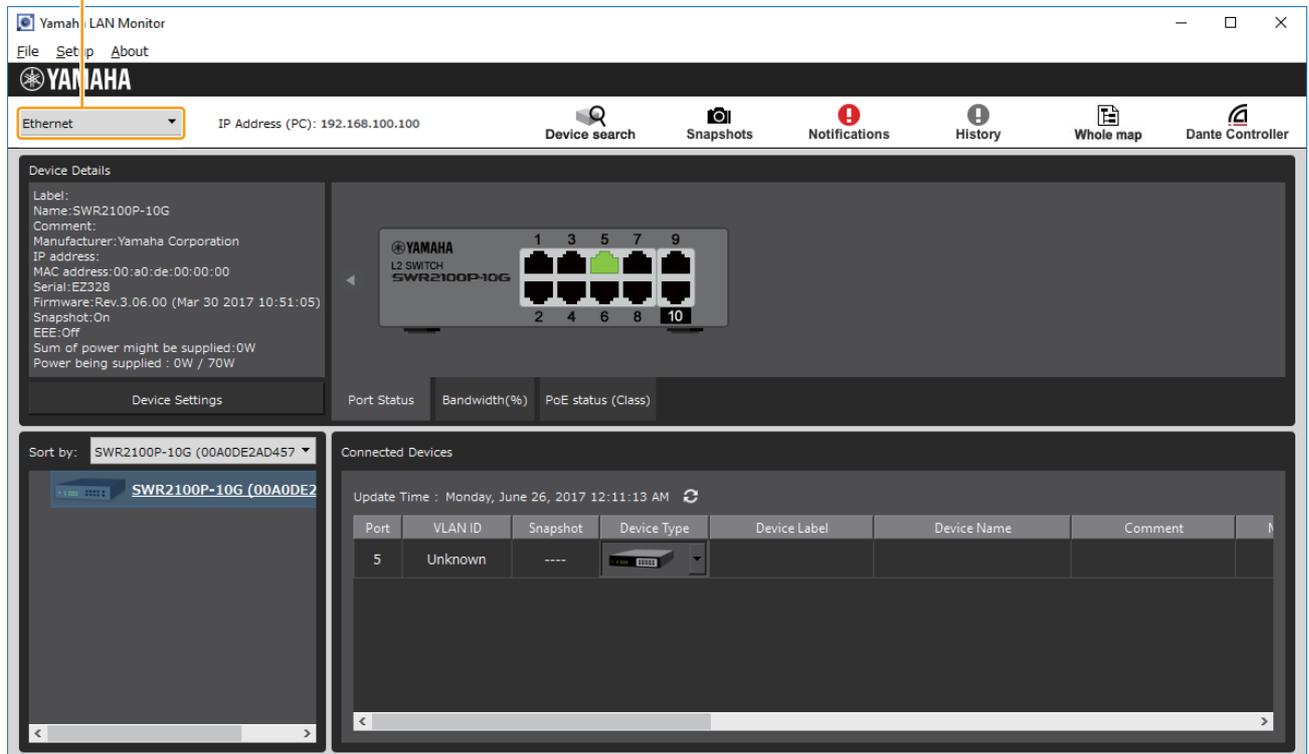
NOTE

In some cases, the Windows firewall might block Yamaha LAN Monitor. Select the [Private networks] check box, and click [Allow access].

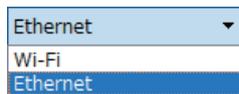
Basic operation

1. Start Yamaha LAN Monitor.

Network adapter selection pull-down menu

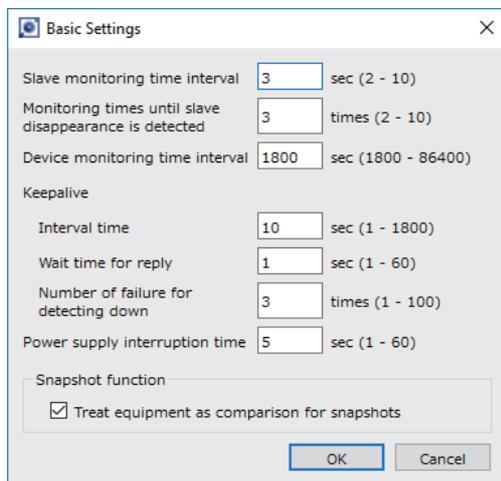


2. From the network adapter selection pull-down menu in the toolbar, select the network adapter to which the network that you want to monitor is connected.



3. Click [Setup] in the menu bar → [Basic Settings] to configure basic Yamaha LAN Monitor settings.

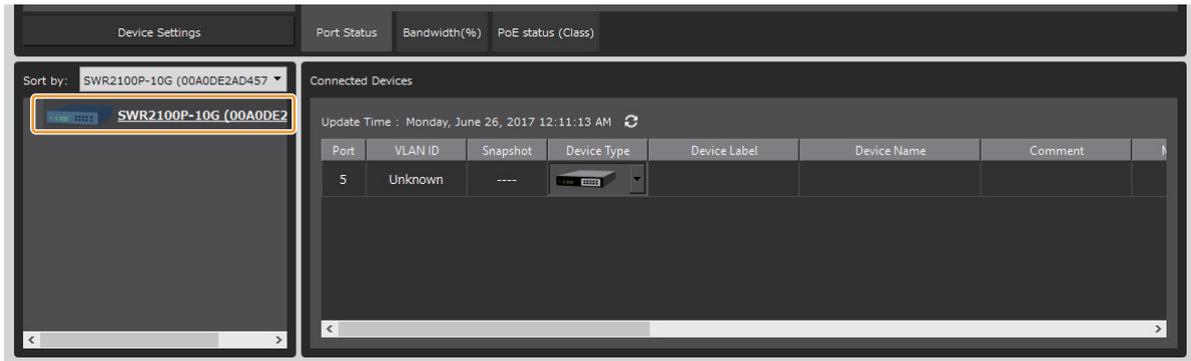
Click [OK] to apply settings.



NOTE

For more details on [Basic Settings], refer to the [Basic Settings] section (page 12) under the "Menu bar" (page 11).

4. Select the device you wish to monitor in the “Tree” view.

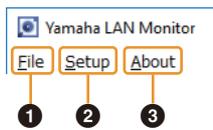


5. Click the [Snapshots] button on the toolbar to use the snapshot function, as needed.

Click the [Snapshots] button to save the current network status, issues detected, and other information to Yamaha LAN Monitor as a snapshot.

Menu bar

This section provides descriptions of each menu on the menu bar: [File], [Setup] and [About].



❶ [File] menu (page 11)

❷ [Setup] menu (page 11)

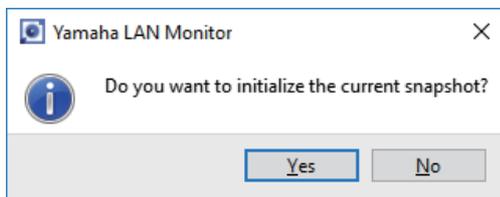
❸ [About] menu (page 13)

[File] menu

■ [New]

Initializes the current snapshot held by Yamaha LAN Monitor.

If a snapshot is already held, a confirm initialization message appears. Click [Yes] to initialize the current snapshot.



■ [Open Snapshot File]

Displays the “Open Snapshot File” dialog box.

In the “Open Snapshot File” dialog box, select a snapshot file saved to the computer or external memory device, then click [Open] to replace the snapshot currently held by Yamaha LAN Monitor with the selected snapshot.

At the same time, Yamaha LAN Monitor will compare the current network status with the snapshot and display the comparison results on the Main screen.

■ [Save As]

Displays the “Save As” dialog box. Saves the snapshot held by Yamaha LAN Monitor to the computer or an external memory device. The saved file has a filename extension of “.nms.”

■ [Exit]

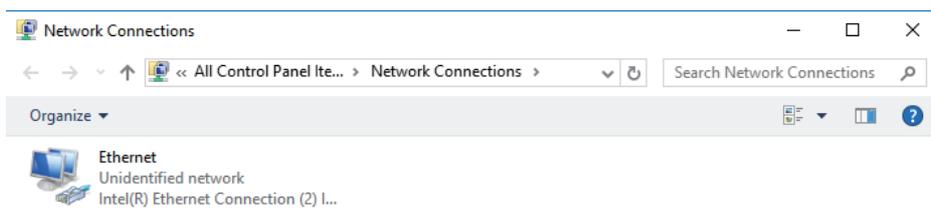
Exits Yamaha LAN Monitor.

[Setup] menu

■ [Open IP Settings for PC]

Opens the “Network Connections” control panel window.

Allows changing of the IP address of the network adapter.



■ [Import Label Settings]

Opens the “Import Label Settings” dialog box.

Loads device labels displayed in the “Connected Devices” view from a file.

■ [Export Label Settings]

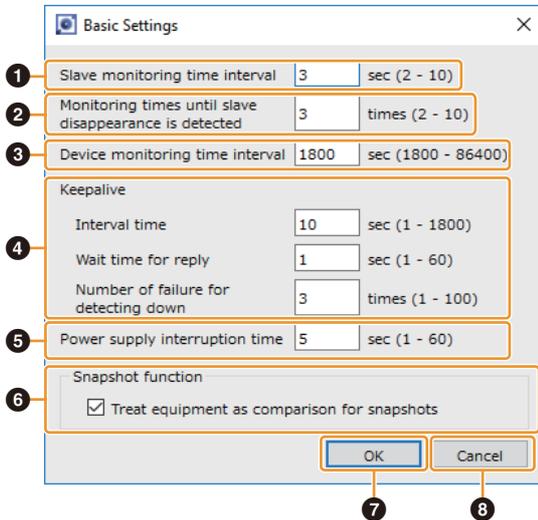
Opens the “Export Label Settings” dialog box.

Saves device labels specified in the “Connected Devices” view as a file. The saved file has a filename extension of “.nml.”

■ [Basic Settings]

Opens the “Basic Settings” dialog box.

Displays a dialog box in which you can make basic settings for Yamaha LAN Monitor.



① Slave monitoring time interval

Set the slave monitoring time interval in seconds.

Setting range: 2 – 10 sec

Default: 3 sec

This will detect the slave and update the Main screen every time the set amount of seconds elapses.

② Monitoring times until slave disappearance is detected

Set the monitoring times until slave disappearance is detected.

Setting range: 2 – 10 times

Default: 3 times

If the search packets have been sent for the set number of times without receiving a response packet from the slave, the corresponding slave is assumed lost.

③ Device monitoring time interval

Set the device monitoring time interval in seconds.

Setting range: 1800 – 86400 sec

Default: 1800 sec

This will detect devices connected to a slave every time the set amount of time elapses.

④ Keepalive

This pings slaves and devices with an IP address to confirm their existence. This is used to set the ping interval, the wait time for reply, and the number of failed attempts before a connection is assumed to be down.

• Interval time:

Set the ping interval in seconds.

Setting range: 1 – 1800 sec

Default: 10 sec

• Wait time for reply:

Set the wait time for reply to pings in seconds.

Setting range: 1 – 60 sec

Default: 1 sec

• Number of failure for detecting down:

Set the number of failures before a connection is detected as being down.

Setting range: 1 – 100 times

Default: 3 times

5 Power supply interruption time

Suspends the power supply when a disrupted or inactive connection is detected. Set the power supply interruption time in seconds in case of interruption.

Setting range: 1 – 60 sec

Default: 5 sec

6 Snapshot function

- **“Treat equipment as comparison for snapshots” check box:**

Clear this check box to exclude devices as targets for comparisons.

Default: Selected

7 [OK] button

Applies the configured settings.

NOTE

- The [OK] button is only available when acceptable input values have been input.
- Click the [OK] button to reset the monitoring timer and begin counting from 0 seconds again.

8 [Cancel] button

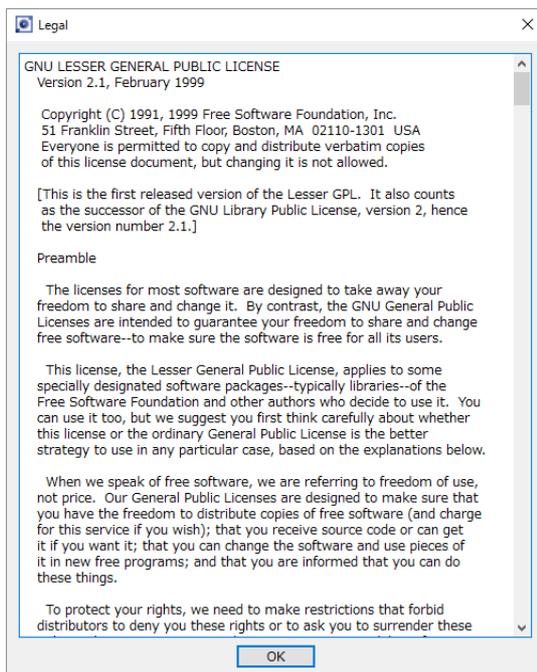
Closes the dialog box without applying setting changes.

[About] menu**[About]**

Displays Yamaha LAN Monitor version and copyright information.

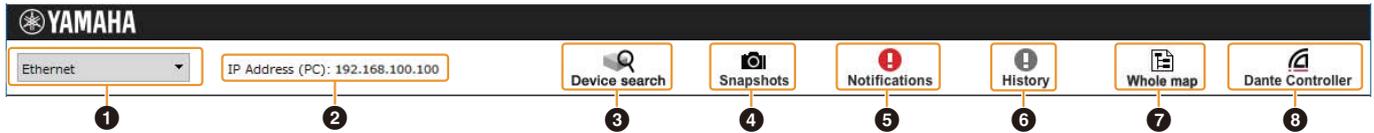
**[Legal]**

Displays license information for open source software used by Yamaha LAN Monitor.



Toolbar and display area

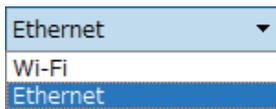
This section describes the display area and each button on the toolbar: [Device search], [Snapshots], [Notifications], [History], [Whole map] and [Dante Controller].



- ❶ Network adapter selection pull-down menu ([page 14](#))
- ❷ [IP Address (PC)] ([page 14](#))
- ❸ [Device search] button ([page 14](#))
- ❹ [Snapshots] button ([page 16](#))
- ❺ [Notifications] button ([page 16](#))
- ❻ [History] button ([page 17](#))
- ❼ [Whole map] button ([page 17](#))
- ❽ [Dante Controller] button ([page 19](#))

Network adapter selection pull-down menu

Select the network adapter to be monitored by Yamaha LAN Monitor from the pull-down menu. If you change the network adapter, the snapshot internally held in Yamaha LAN Monitor is discarded.



NOTE

Network adapters that have been disabled on the PC running Yamaha LAN Monitor will not appear.

[IP Address (PC)]

Indicates the IP address that is assigned to the currently selected network adapter.

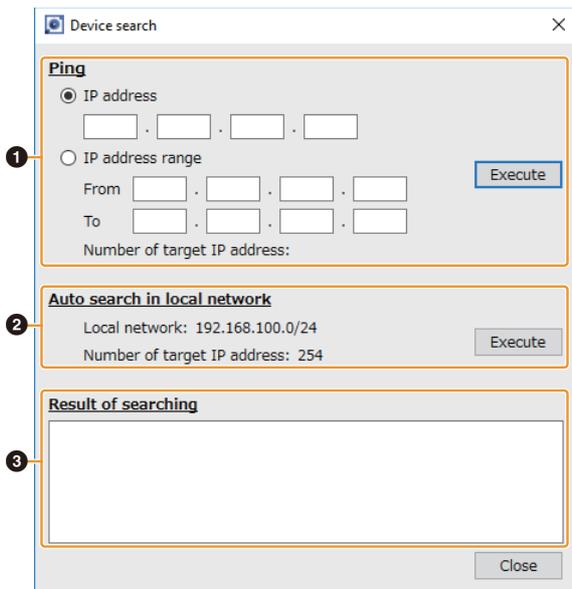
[Device search] button

Opens the “Device search” dialog box. This function can use specified IP addresses to ping devices that are connected to the current network. This function also can search the IP addresses of all devices that are connected to the current network.

If the “Connected Devices” view does not list some devices on which you want to perform keepalive checks (life/death monitoring), you can execute this function to list the devices in the “Connected Devices” view.

NOTE

A device that was discovered by the Device search function will disappear from the “Connected Devices” view if the device does not communicate for a certain period of time. If you want a discovered device to appear continuously in the “Connected Devices” view, enable keepalive check on the device. For details on keepalive check, refer to the description provided for the Keepalive check box in ❷ List for the “Connected Devices” view ([page 26](#)).



1 Ping

You can ping one or more specified IP addresses. Select a radio button to specify which type of test you want to execute.

Click the [Execute] button to start a ping test. The results of the ping test appear in the Result of searching area. When you select [IP address] and execute a ping test, the Result of searching area displays the test results regardless of whether there is a reply.

When you select [IP address range] and execute a ping test, the Result of searching area lists only the IP addresses that replied.

- **[IP address]:**
Select this to ping a single IP address.
- **[IP address range]:**
Select this to ping a specified range of IP addresses.
From: Enter the starting IP address.
To: Enter the ending IP address.
- **[Number of target IP address]:**
Shows the number of IP addresses in the specified range.
During a ping test, this shows the number of sent ping messages and the rate of progression.
- **[Execute]/[Stop] button:**
Click the [Execute] button to start a ping test.
During the ping test, this button switches to [Stop]. You can click this button to terminate the ping test.

2 Auto search in local network

This area shows the network information and the number of target IP addresses of the network to which the selected network adapter belongs. Click the [Execute] button to start a search. The results of the search appear in the Result of searching area.

The Result of searching area lists only IP addresses that replied.

Important

Do not change the IP address and subnet mask of the selected network adapter during a search.

- **[Local network]:**
Shows the network information of the network to which the network adapter belongs.
- **[Number of target IP address]:**
Shows the number of IP addresses to be searched. During a search, this shows the number of searched IP addresses and the rate of progression.
- **[Execute]/[Stop] button:**
Click the [Execute] button to start a search.
During the search, this button switches to [Stop]. You can click this button to terminate the search.

③ Result of searching area

Shows the results of a ping test or an auto search in local network ([page 34](#)).

[Snapshots] button Snapshots

Saves the current network connection status to Yamaha LAN Monitor as a snapshot. Click the [Snapshots] button to display a save snapshot confirmation message. Click [OK] to save the snapshot.

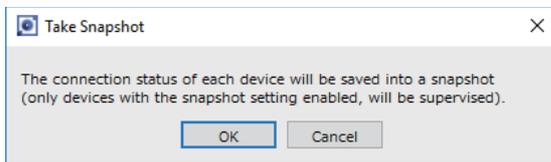
NOTE

- The snapshot function compares the current network connection status with the previously saved snapshot and displays a message in the Notification area when a change is detected.
- To save device information to a snapshot, in [Basic Settings] under [Snapshot function], select the [Treat equipment as comparison for snapshots] check box.
- The [Snapshots] button cannot be used until a slave is detected.

■ Using the snapshot function

1. Click the [Snapshots] button.

This opens the “Take Snapshot” dialog box.



2. Click the [OK] button.

This saves a snapshot and begins monitoring.

NOTE

When a change is detected, click the [Notifications] button to view details of changes made in the Notification area ([page 16](#)). For more details on the types of messages that appear, refer to “If a change is detected” ([page 16](#)).

[Notifications] button / Notification area

Shows a message in the Notification area when there is a change in the current network and snapshot (the previously-saved network status). The message disappears when the network returns to the same state as the snapshot.

Notification

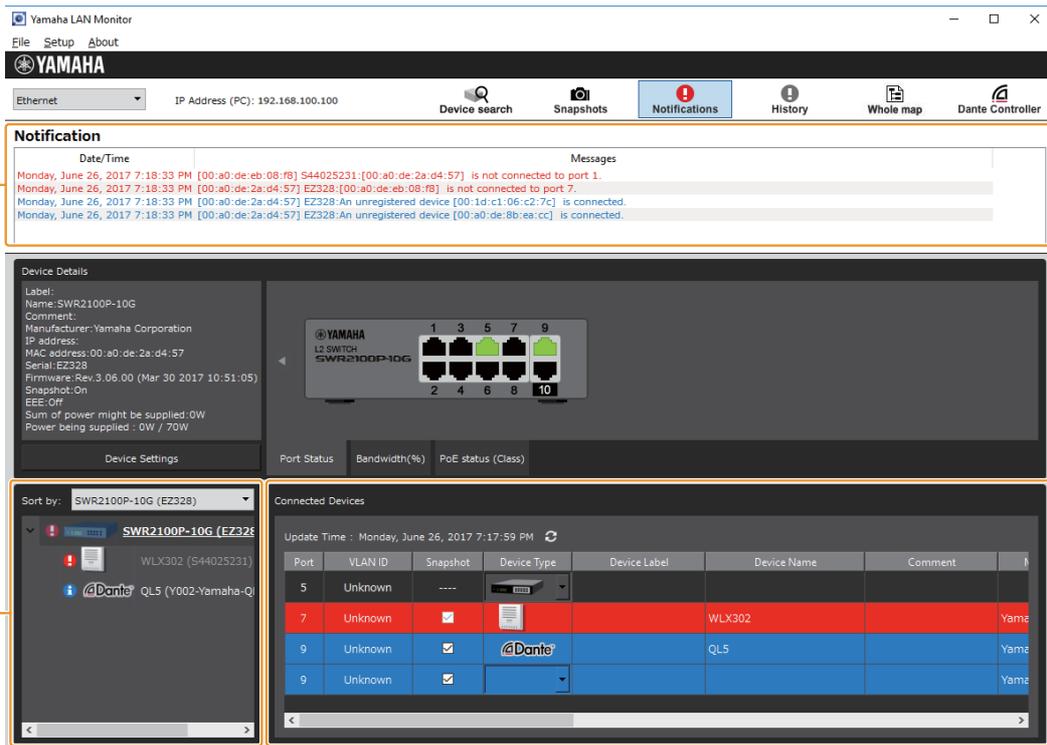
Date/Time	Messages
Monday, June 26, 2017 12:44:30 AM	[00:a0:de:2a:d4:00] EZ328:[00:a0:de:26:bb:00] is not connected to port 9.
Monday, June 26, 2017 12:44:30 AM	[00:a0:de:2a:d4:00] EZ328:[00:1d:c1:0b:74:00] is not connected to port 9.

NOTE

- The message history is added to the History area. Click the [ History] button to display the History area.
- For details on the types of messages displayed, refer to “Messages shown in both the Notification area and the History area” ([page 31](#)).

■ If a change is detected

A message ([page 31](#)) appears in the Notification area. If a device that was recorded in the snapshot is no longer found, or if the connection port is different, a red error icon () is shown for the slave that is above the corresponding device. If a device that was not recorded is newly found, a blue notification icon () appears on the slave that is above the corresponding device.



1 Notification area

Messages regarding the current network are shown here. When a new message is added, the Notification area appears automatically. The Notification area can also be displayed by clicking the [Notifications] button. When a message is displayed, you can close the Notification area by clicking the [Notifications] button.

Date/Time: Shows the date and time at which the message was output.

Messages: Shows the message that was output by the switch function or snapshot function.

2 “Tree” view

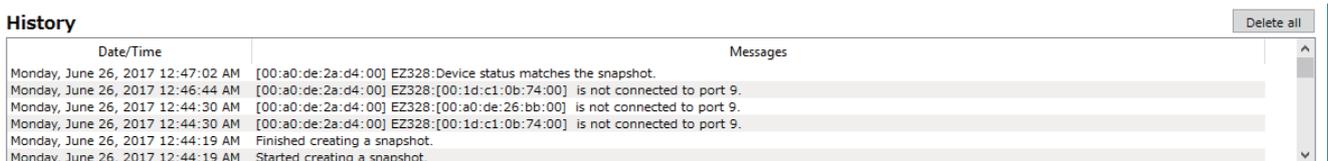
If a device that was recorded in the snapshot is no longer found, or if the connection port is different, a red error icon (⚠) is shown for the slave that is above the corresponding device. If a device that was not recorded is newly found, a blue notification icon (ℹ) appears on the slave that is above the corresponding device.

3 “Connected Devices” view

If a device recorded in the snapshot is no longer found, the corresponding device is shown in red. If a device that had not been recorded is newly found, the corresponding device is shown in blue.

[History] button / History area

The History area shows the history of various messages. Click the [Delete all] button to delete the entire message history.

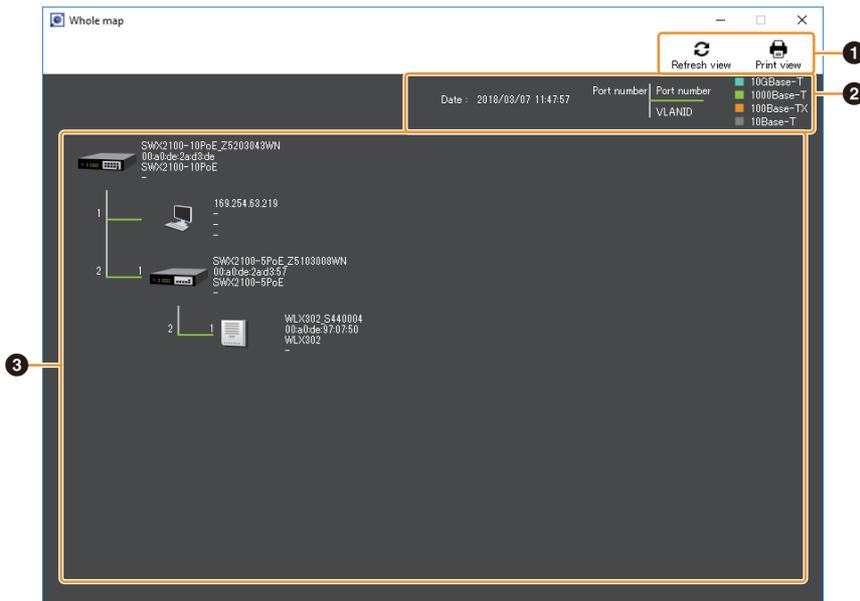


NOTE

For details on the types of messages displayed, refer to “Messages shown in both the Notification area and the History area” (page 31).

[Whole map] button Whole map

Displays the whole map screen. This displays all of the devices connected to the network in a single view. A print function allows you to print the whole map that is being displayed.



1 Button area

- **[Refresh view] button:**
Refreshes the information in the network configuration display area. Click this button to refresh with the latest information.
- **[Print view] button:**
Displays the print preview screen. You can print the whole map.

2 Legend area

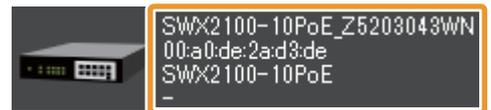
- **Date:**
Shows the date and time of when the whole map screen or the [Refresh view] button was operated.
- **Port number, VLAN ID:**
Shows the port number of the higher device (slave) ("2" in the right figure), the port number of the device connected to the higher device (slave) ("1" in the right figure), and the VLAN ID that joins the ports connecting the devices. For the VLAN mode of trunk or hybrid, the set VLAN IDs are listed vertically.
- **Link speed:**
Shows the link speeds. The link speed between devices (the link speed for the port of the higher device) is indicated by a colored connection line between the device icons (the lime line in the right figure). The link speed indicated by each color is described in the legend at the upper right of the screen.



3 Network configuration display area

Shows the information of slaves and equipment in the network. The following information is available depending on the type of the device.

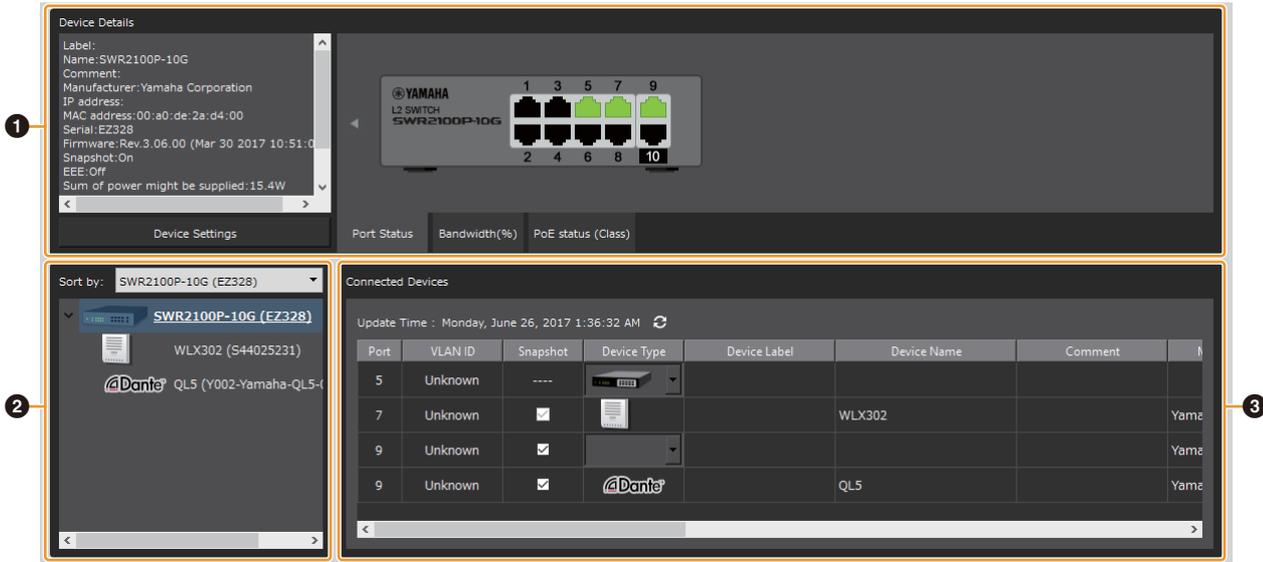
- **Slave:**
Shows the name, MAC address, device name, and IP address (as shown in the right figure). The IP address appears as a hyphen (-) when the address cannot be obtained.
- **Equipment:**
Shows the IP address, manufacturer, device name, and comment (as shown in the right figure). The manufacturer, device name, and comment appear as hyphens (-) when nothing is specified.
- **Dante device:**
Shows the IP address, manufacturer, device name, and comment. The comment appears as a hyphen (-) when no comment is specified. If Dante Controller has not been installed, Dante-enabled devices are identified as equipment, so the available information is the same as for "Equipment."



[Dante Controller] button Dante Controller

Starts the Dante Controller that is installed on the computer. Dante settings, such as patching, can be configured. To display this button, Dante Discovery/Dante Control and Monitoring must be installed ([page 5](#)). If Dante Controller is not installed ([page 5](#)), an error message appears. For details on using Dante Controller, refer to the Dante Controller User Guide.

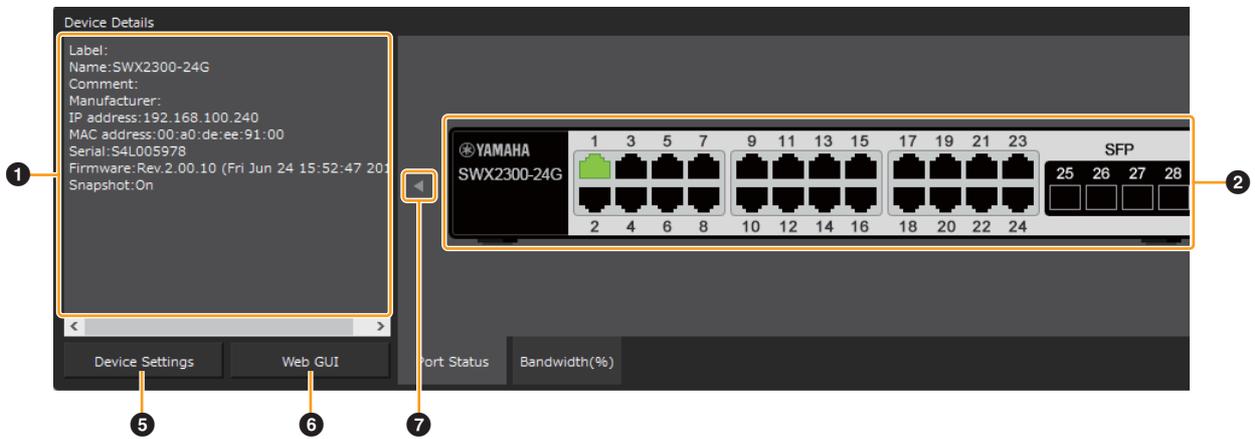
Main screen



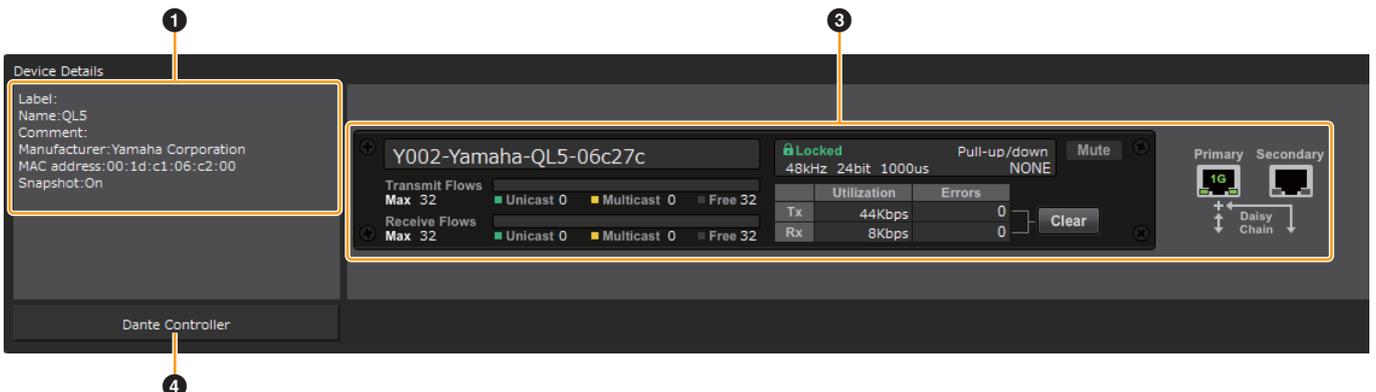
- ❶ “Device Details” view (page 20)
- ❷ “Tree” view (page 25)
- ❸ “Connected Devices” view (page 26)

“Device Details” view

This shows detailed information about the device that is selected in the “Tree” view. The left side shows detailed information about the device, and the right side shows port information and information on the Dante-enabled device. The displayed contents will vary depending on the device in use.



For a Dante-enabled device



1 Device Details

This area shows the following information. Depending on the device, some items will not be shown.

Label	Shows the device label that was entered in the “Device Settings” dialog box or the “Connected Devices” view.
Name	Shows the model name of the device.
Comment	Shows the comment that was entered in the “Connected Devices” view. You can freely enter information about the on-site cabling or the role of the device.
Manufacturer	Shows the manufacturer name of the device.
IP address	Shows the IP address of the device. The IP address of the device can be changed in the “Device Settings” dialog box. This field is left blank for devices without an IP address.
MAC address	Shows the MAC address of the device.
Serial	Shows the serial number of the device.
Firmware	Shows the firmware revision of the device.
Snapshot function	Shows whether the device is monitored by the Snapshot function (On) or not monitored (Off).
EEE	Shows whether the power-saving function is enabled or disabled. This shows either Economy Mode or Normal Mode for SWX2200 series devices.
Fan Status	For a switch with a built-in fan, shows whether the fan is operating normally or malfunctioning.
Fan RPM	Shows the fan RPM for a switch with a built-in fan.
Internal temperature	Shows the internal temperature of the switch.
Sum of power might be supplied	Shows the sum of the maximum power capacity supplied to the switch-connected device. Note that the power supply may be interrupted, depending on the condition, if this value exceeds the limitation of the maximum power supply capacity for the PoE switch.
Power being supplied	Shows the total power supplied from each port on the switch and from the entire device.
Link aggregation	Shows the link aggregation type.

2 Port status

This area shows a graphic representation of information concerning the Yamaha switch, Dante-enabled devices and Yamaha wireless LAN access points. Use the tabs located below the graphic to switch the information that is shown.

- **[Port Status] tab:** Shows the connection status and communication speed of each port.
- **[Bandwidth(%)] tab:** Shows the bandwidth usage of each port. (For switches only)
- **[PoE status (Class)] tab:** This area shows the power supply status for each port. (For PoE-enabled switches only)

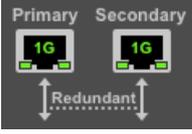
NOTE

For more details on the graphic display, refer to “Port icons in the “Device Details” view” ([page 29](#)).

3 Information for the Dante-enabled device

This area shows information for the Dante-enabled device. To display information for the Dante-enabled device, Dante Discovery/Dante Control and Monitoring must be installed ([page 5](#)).

Name	Shows the label of the Dante-enabled device
[Transmit Flows]	Shows the transmit flow status.
[Receive Flows]	Shows the receive flow status.
[Locked]/[Unlocked] indicator	Indicates whether the audio signal is locked or unlocked.

Sampling frequency/ bit-length/latency	Shows the sampling frequency, bit-length, and latency of the audio signal. The latency is shown in μ second units.
[Pull-up/down]	Shows the sampling rate pull-up/pull-down setting.
[Mute] indicator	Lit in red when the Dante-enabled device is muted.
[Tx]/[Rx]	Shows information about Dante transmission and reception. [Utilization]: Shows the current amount of transmission and reception in kbps units. [Errors]: Shows the number of errors that occurred during transmission and reception. The [Clear] button located at the right resets the indication of the [Errors] field to 0.
[Primary]/ [Secondary]	Shows the status of the Dante “Primary” port and “Secondary” port. The link speed is shown inside the graphic of the port. The setting of the Dante “Secondary” port is shown below the graphic of the ports. 

NOTE

For more about transmit flow and receive flow, and unicast and multicast, visit the following Yamaha Pro Audio site, navigate to [Training & Support] → [Self Training] → [Dante Network Design Guide], and refer to [Multicast Settings].

<http://www.yamaha.com/proaudio/>

4 [Dante Controller] button

You can click this to start Dante Controller and configure Dante settings, such as patching. If Dante Controller is not installed, an error message appears.

For details on using Dante Controller, refer to the Dante Controller User Guide.

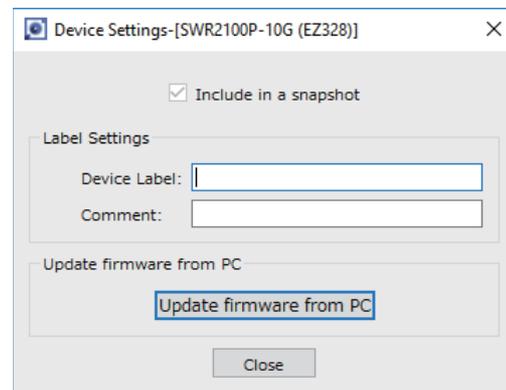
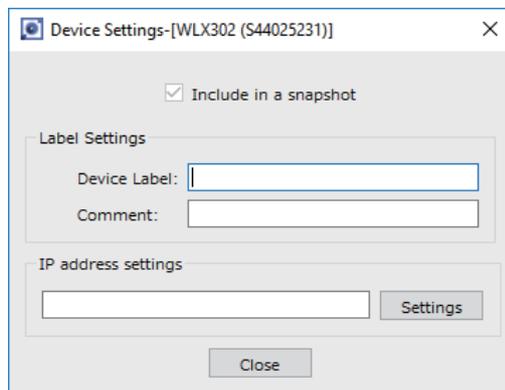
5 [Device Settings] button

This shows the “Device Settings” dialog box.

■ For non-SWX2200 series Yamaha switch and Yamaha wireless LAN access point

Use this to update label settings, IP address settings and Yamaha switch firmware.

Either “IP address settings” or “Update firmware from PC” will appear depending on the device in use.



[Include in a snapshot] check box	Turns the snapshot function on/off for each device. For a slave device, this is fixed on.
Label Settings	Allows you to freely enter a label and comment to distinguish the individual unit.
IP address settings	Click the [Settings] button to display the “IP address settings” dialog box.
Update firmware from PC	Click the [Update firmware from PC] button to display the “Update firmware from PC” dialog box.
[Close] button	When you click this, the “Device Settings” dialog box closes.

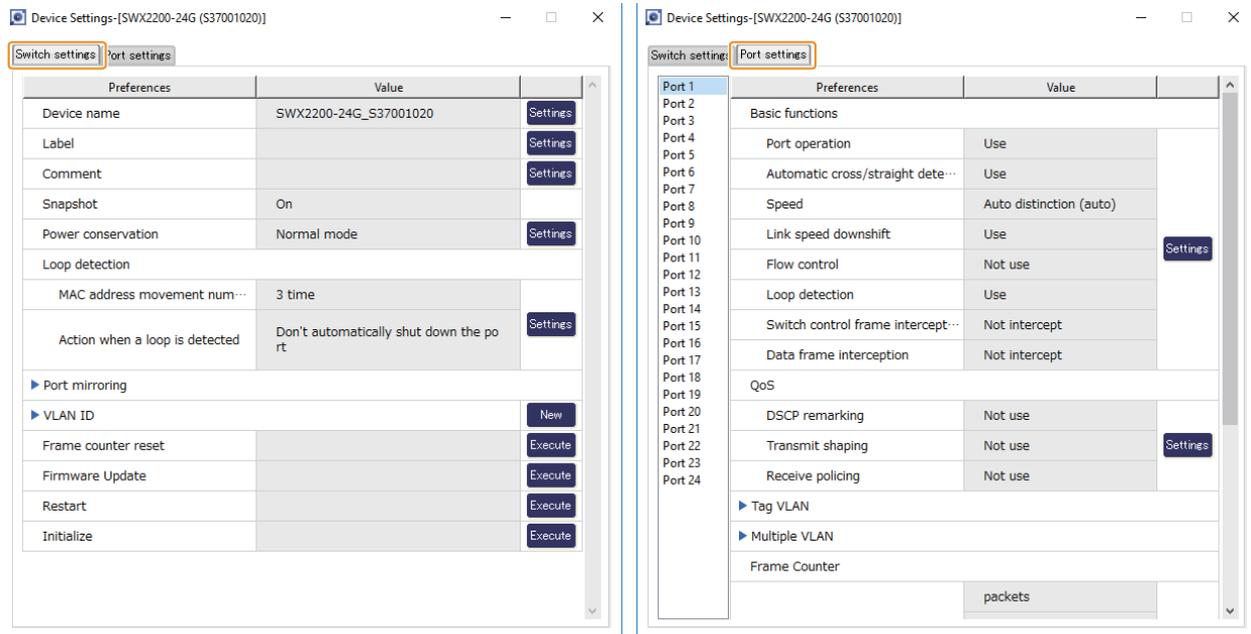
NOTE

“IP address settings” and “Update firmware from PC” may not appear depending on the device in use.

■ **For the SWX2200 series Yamaha switch**

Use this to view or change the settings of the SWX2200 series Yamaha switch. The tabs shown at the top of the image allow you to switch between information displays.

- **[Switch settings] tab:** View or configure the settings of the SWX2200 series Yamaha switch.
- **[Port settings] tab:** Configure basic functions, VLAN, and other settings for each port.



Switch settings

Device name	Changes the device name of the switch. Click the [Setting] button to display the “Device name” dialog box. • Default: [Device name]_[Serial number]
Label	Allows you to enter a label that distinguishes the individual device. Click the [Setting] button to display the “Label” dialog box.
Comment	Allows you to enter a comment. Click the [Setting] button to display the “Comment” dialog box.
Snapshot	Cannot be changed. This is fixed to “On.”
Power conservation	Configures the power conservation settings of the switch. Click the [Setting] button to display the “Power conservation” dialog box. • Default: Normal mode
Loop detection	Configures the action of the switch when a loop is detected. Click the [Setting] button to display the “Loop detection” dialog box. • Default MAC address movement number threshold: 3 times Action when a loop is detected: Don't automatically shut down the port Time to release the port automatically: 300 seconds
Port mirroring	Configures the port mirroring settings of the switch. Click the arrow (▶) to display the [Setting] button. Click the [Setting] button to display the “Port mirroring” dialog box. • Default Operation mode: Not use Sniffer port: Port 8 for a device with 8 ports, or port 24 for a device with 24 ports Monitor mode (combo box): Not mirrored

VLAN ID tag	Configures the VLAN ID used for the VLAN. Click the [New] button to display the “Create VLAN ID” dialog box. Click the arrow (▶) to display the [Setting] button. Click the [Setting] button to display the “VLAN ID” dialog box. <ul style="list-style-type: none"> Default VLAN ID: The minimum unused ID from 101 to 132 Name: VLAN[VLAN ID]
Frame counter reset	Resets the frame counter. Click the [Execute] button to display a “Frame counter reset” confirmation message.
Firmware Update	Updates the firmware of the switch. Click the [Execute] button to display the “Firmware Update” dialog box.
Restart	Restarts the switch. Click the [Execute] button to display a “Restart” confirmation message.
Initialize	Initializes the switch. Click the [Execute] button to display an “Initialize” confirmation message.

Port settings

Click the [Port settings] tab, and then click a port number to display the following setting items.

Basic functions	Configures the basic functions of the port. Click the [Setting] button to display the “Basic functions” dialog box. <ul style="list-style-type: none"> Default Port operation: Use Automatic cross/straight detection: Use Speed: Auto distinction (auto) Link speed downshift: Use Flow control: Not use Loop detection: Use Switch control frame interception: Not intercept Data frame interception: Not intercept
QoS	Configures the QoS settings. Transmit shaping and receive policing are shown only for SWX2200-24G. They are not shown for SWX2200-8PoE or SWX2200-8G. Click the [Setting] button to display the “QoS” dialog box. <ul style="list-style-type: none"> Default DSCP remarking: Not use Transmit shaping: Not use Receive policing: Not use
Tag VLAN	Configures the tag VLAN settings. Click the arrow (▶) to display the [Setting] button. Click the [Setting] button to display the “Tag VLAN” dialog box. <ul style="list-style-type: none"> Default Operation mode: Access port Access VLAN ID: default[VID=1] Trunk VLAN ID: Not selected
Multiple VLAN	Configures the multiple VLAN settings. Click the arrow (▶) to display the [Setting] button. Click the [Setting] button to display the “Multiple VLAN” dialog box. <ul style="list-style-type: none"> Default Joined group: Not selected
Frame counter	Configures the frame counter settings. There are three items for SWX2200-8PoE and SWX2200-8G, or five items for SWX2200-24G. Click the [Setting] button to display the “Frame counter” dialog box. <ul style="list-style-type: none"> Default Transmitted frame: packets, total-good-packets, total-error-packets, fifo-drops, and collisions Received frame: packets, total-good-packets, total-error-packets, fifo-drops, and crc-align-errors

PoE supply class	<p>Configures the PoE supply class settings. This is shown only for SWX2200-8PoE. Click the [Setting] button to display the “PoE supply class” dialog box.</p> <ul style="list-style-type: none"> • Default <ul style="list-style-type: none"> Ports 1, 3, 5, and 7: class4 (30 W) Ports 2, 4, 6, and 8: class3 (15.4 W)
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6 [Web GUI] button (shown only for a slave device with a Web GUI)

When you click this, the Web GUI of the device currently selected in the tree appears in the default browser. In the Web GUI, you can configure basic settings for Yamaha switch and Yamaha wireless LAN access point and manage them. For details, refer to “Logging in to the Web GUI” (page 28).

7 Button to show/hide device details

Click the button to switch whether device details are shown or hidden. For Dante-enabled devices, the switch button is not shown.

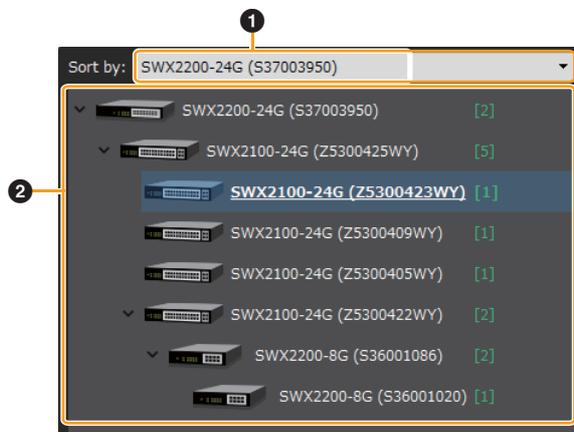


“Tree” view

This area shows the Yamaha switch, Dante-enabled devices and Yamaha wireless LAN access points detected by Yamaha LAN Monitor. The device name and the number of connected devices (slave devices only) are shown at the right of the icon; when you click the open/close button [>] located at the left of the icon, the devices connected below that slave device are shown.

NOTE

This will not function until a Yamaha switch is found.



1 Sorting order reference node selection pull-down menu

Selects the Yamaha switch that you want to appear at the top of the “Tree” view. These are shown in their connection order relative to the selected Yamaha switch.

NOTE

- Only the Yamaha switch for the current network will appear in the sorting order reference node selection pull-down menu.
- When starting Yamaha LAN Monitor, the Yamaha switch closest to the PC will serve as the starting point for the “Tree” view.

2 Tree view

This area shows the Yamaha switch, Dante-enabled devices and Yamaha wireless LAN access points detected by Yamaha LAN Monitor.

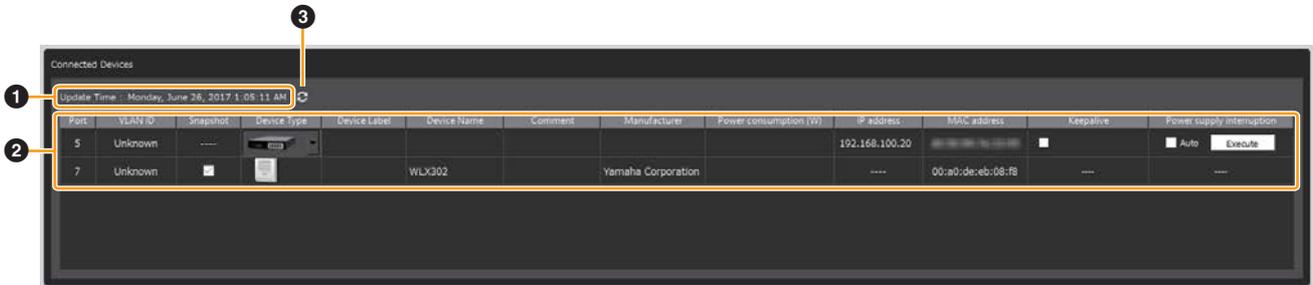
If a device that was recorded in the snapshot is no longer found, or if the connection port is different, a red error icon (!) is shown for the slave that is above the corresponding device. If a device that was not recorded previously is newly found, a blue notification icon (i) appears on the slave that is above the corresponding device.

“Connected Devices” view

When you click a Yamaha switch or Yamaha wireless LAN access point shown in the “Tree” view, a list of the connected devices is shown in the “Connected Devices” view.

The “Connected Devices” view is updated each time that the time specified in “Slave monitoring time interval” of “Basic Settings” has elapsed (page 12).

When you click the [Refresh] button of the “Connected Devices” view, information for the devices connected to the slave is refreshed.



1 Update Time

Shows the date and time at which information was last captured for the devices that are connected to the Yamaha switch or Yamaha wireless LAN access point that is selected in the “Tree” view.

2 List

Shows a list of information for the devices that are connected to the slave that is selected in the “Tree” view. Depending on the device, some items will not be shown. Click the title row to sort according to the item clicked.

Port	Shows the port number of the slave to which the device is connected. If a Dante device has multiple logical ports for a single physical port, they are all shown with the same port number. On Yamaha Dante-enabled devices, there is no need to pay particular attention to non-Dante ports.
VLAN ID	Shows the VLAN ID joined by the port to which the device is connected. When multiple VLAN IDs are set, each VLAN ID will be separated with a comma. Maximum of 9 (trunk=8, access=1). The access port (A), and trunk port (T) will appear after the VLAN ID. However, (A) will not appear when only the access port is in use.
Snapshot	Specifies whether each device is included as a target of the snapshot function. Users can switch settings only for the devices other than slaves. Slaves cannot be changed.
Device Type	Shows an icon that indicates the type of device. You can use the pull-down menu to switch the icon that is displayed.
Device Label	Allows you to freely enter a label to distinguish each individual device.
Device Name	Shows the model name of the device. Some devices allow you to input and edit the device name.
Comment	Allows you to freely assign a comment. You can enter information about the on-site cabling or the role of the device.
Manufacturer	Shows the manufacturer name of the device. Some devices allow you to input and edit the manufacturer name.
Power consumption (W)	Enter the maximum power consumption of the device over a range of 0.0 – 30.0. Enter the maximum power consumption of the connected device, when known, to obtain an accurate view of the sum of the maximum power that might be supplied to the connected device. If [Power consumption (W)] is not entered, the maximum power supply defined for the power supply class will be used to calculate the [Sum of power might be supplied].
IP address	Shows the IPv4 address of the device.
MAC address	Shows the MAC address of the device.

Keepalive	<p>Select this check box to perform keepalive checks on the device. If this check box is selected, Yamaha LAN Monitor pings the device to perform keepalive checks according to settings configured in the “Basic Settings” dialog box (page 12).</p> <p>Selecting this check box will display the following depending on the circumstances.</p> <ul style="list-style-type: none"> • Checking: Now checking. • UP: Successfully detected device. • DOWN: Failed to detect device.
Power supply interruption	<p>Restart devices directly connected to the PoE-enabled Yamaha switch by turning the power supply on and off.</p> <p>The duration of power supply interruption is set in the “Basic Settings” dialog box by configuring the “Power supply interruption time” (page 13).</p> <ul style="list-style-type: none"> • [Auto] check box: Select this check box to temporarily turn off the power supply to devices that could not be detected using [Keepalive]. This setting is only available when the [Keepalive] check box is selected. • [Execute] button: This manually interrupts the power supply. While off, a “Stopped” message will appear.

NOTE

- If multiple Dante-enabled devices are connected in a daisy-chain, the other devices are also shown together at the same port number as the device that is connected immediately below the switch.
- Of the settings in the above list, the settings of [Device Type], [Device Label], [Device Name], and [Manufacturer] can be moved to another computer by using the [Setup] menu commands [Export Label Settings] and [Import Label Settings].
- Note that a snapshot notification will not be provided even if the keepalive status changes from “UP” to “DOWN.”

List entry

To enter information in a list, or edit entered information, double click a cell.

Entries up to the following character counts and within the following ranges are permitted.

- **[Device Label], [Device Name], [Comment], [Manufacturer]:** Up to 128 characters
- **[Power consumption (W)]:** Up to the first decimal place within a range of 0.0 – 30.0

NOTE

Content entered into the [Device Label] and [Comment] fields are shared with “Device Settings” dialog box ([page 22](#)). Changing entries in one will change the corresponding entry for the other.

Show connection status

A snapshot saves the connected state of the devices at the time that you started monitoring.

Subsequently, if a device recorded in the snapshot is no longer found, the corresponding device is shown in red. If a device that had not been recorded previously is newly found, the corresponding device is shown in blue.

Port	VLAN ID	Snapshot	Device Type	Device Label	Device Name	Comment	Manufacturer	Power consu
5	Unknown	----						
7	Unknown	<input checked="" type="checkbox"/>			WLX302		Yamaha Corporation	
9	Unknown	<input checked="" type="checkbox"/>			QL5		Yamaha Corporation	

③ [Refresh] button

Refreshes the information for the other slaves or devices that are connected to the slave selected in the “Tree” view.

Web GUI

If the Yamaha switch or Yamaha wireless LAN access point provide a web page for configuring settings, you can display this web page in your browser to configure basic settings and perform device management. This web page is referred to as a Web GUI.

For more information on recommended browsers for viewing the Web GUI, check the URL below.

http://www.rpro.yamaha.co.jp/RT/FAQ/gui/browser_en.html

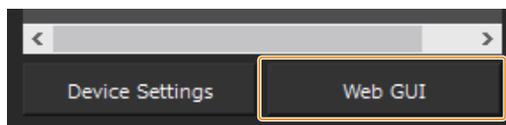
- In Yamaha LAN Monitor, wait for the IP address of the computer and the IP address of the applicable device to be displayed correctly before you access the Web GUI.
- Do not use the “Back” or “Forward” buttons of the web browser. In each page, there may occasionally be cases in which the layout is disordered. If this occurs, re-access the page.

Logging in to the Web GUI

To use the Web GUI, proceed as follows.

1. Click the [Web GUI] button on the “Device Details” view.

A password entry dialog box will appear.



2. Enter your [User name] and [Password].



For the factory-set user name and password, refer to the user manual of each model.

3. Click either the [OK] or [Login] button.

The Web GUI screen of the device currently selected in the tree appears in the default browser.

NOTE

If the Web GUI does not appear, it could be that the IP address or subnet settings of the Yamaha switch or Yamaha wireless LAN access point and the computer do not match. Check the IP address and subnet settings.

Web GUI help

Detailed explanations are provided for the settings in each screen of the Web GUI.

To access the help page, click the “Help” button on the Web GUI screen.

Resources

Port icons in the “Device Details” view

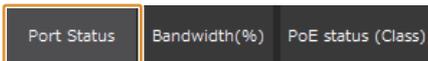
You can check the status of each port by checking the icon color and shape of each device port shown in the “Device Details” view.

In the “Device Details” view, switch between the [Port Status] tab, the [Bandwidth(%)] tab and the [PoE status (Class)] tabs to show the following icons.

NOTE

- The [Bandwidth(%)] tab will only show Yamaha switches.
- The [PoE status (Class)] tab will only show Yamaha PoE switches.

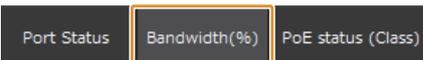
■ **[Port Status] tab icons**



This area shows the connection status and communication speed of each port.

Icon	Meaning
	Port normal (1000BASE-T)
	Port normal (100BASE-TX)
	Port normal (10BASE-T)
	Port abnormality occurred
	Link down
	SFP port normal (1000BASE-T)
	SFP port abnormality occurred
	SFP port alert state
	2.4 GHz, 5 GHz wireless enabled/disabled status

■ **[Bandwidth(%)] tab icons**

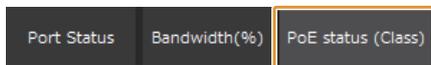


This area shows the bandwidth usage of each port (Yamaha switches only).

Icon	Meaning
	Bandwidth from 95% to 100%
	Bandwidth from 85% to less than 95%
	Bandwidth from 75% to less than 85%

Icon	Meaning
	Bandwidth from 65% to less than 75%
	Bandwidth from 55% to less than 65%
	Bandwidth from 45% to less than 55%
	Bandwidth from 35% to less than 45%
	Bandwidth from 25% to less than 35%
	Bandwidth from 15% to less than 25%
	Bandwidth from 7.5% to less than 15%
	Bandwidth from 0% to less than 7.5%
	Abnormality occurred
	Link down
	Alert state (SFP port)

■ [PoE status (Class)] tab icons



This area shows the power supply status for each port (PoE-enabled Yamaha switches only).

Icon	Meaning
	Class 0 power supply in progress
	Class 1 power supply in progress
	Class 2 power supply in progress
	Class 3 power supply in progress
	Class 4 power supply in progress
	Power not supplied
	Power supply interrupted because the power supply function has been disabled, or the set power consumption limit has been exceeded
	The power supply has been interrupted or a fatal error has occurred with power supply control due to excess current

Messages shown in both the Notification area and the History area

Messages shown in both the Notification area and the History area are as follows.

■ Switch function error messages

The following messages appear when an error occurs with the switch function. **mac** indicates the MAC address of the device that is the subject of the message, **label** indicates the label identifying the device (does not appear when left blank), **n** indicates the port number, **t** indicates the temperature, and **x** indicates the QoS transmit queue number.

Messages
[mac] label: The fan of the Yamaha switch malfunctioned.
[mac] label: A loop occurred at ports (n1, n2...) of the Yamaha switch.
[mac] label: Port (n) of the Yamaha switch stopped supplying power.
[mac] label: Port (n) of the Yamaha switch started supplying power to a Class0 device.
[mac] label: Port (n) of the Yamaha switch started supplying power to a Class1 device.
[mac] label: Port (n) of the Yamaha switch started supplying power to a Class2 device.
[mac] label: Port (n) of the Yamaha switch started supplying power to a Class3 device.
[mac] label: Port (n) of the Yamaha switch started supplying power to a Class4 device.
[mac] label: Port (n) of the Yamaha switch stopped supplying power because a class of device which exceeded the power supply class setting was detected.
[mac] label: Class3 (15.4W) power from port (n) has stopped because paired port began supplying Class4 (30W) power.
[mac] label: Port (n) of the Yamaha switch stopped supplying power because the maximum power has been exceeded.
[mac] label: Port (n) of the Yamaha switch stopped supplying power because the maximum power has been exceeded.
[mac] label: Port (n) of the Yamaha switch stopped supplying power because the internal temperature exceeded t degrees Celsius.
[mac] label: Port (n) of the Yamaha switch stopped supplying power because the fan malfunctioned.
[mac] label: Port (n) of the Yamaha switch stopped supplying power because the power supply malfunctioned.
[mac] label: The Yamaha switch has stopped supplying power.
[mac] label: An error occurred in the power supply of the Yamaha switch.
[mac] label: The power being supplied from the Yamaha switch has exceeded the maximum power supply capacity.
[mac] label: Connected via the backup route. (Master route: port (n))
[mac] label: Connected via the master route.
[mac] label: The loop at the Yamaha switch was resolved.
[mac] label: The power supply interruption of the Yamaha switch was resolved.
[mac] label: The power supply abnormality of the Yamaha switch was resolved.
[mac] label: The power supply overload of the Yamaha switch was resolved.
[mac] label: The fan malfunction of the Yamaha switch was resolved.
[mac] label: The level of light received at port (n) of the Yamaha switch is insufficient.
[mac] label: The level of light received at port (n) of the Yamaha switch is insufficient.
[mac] label: The level of light received at port (n) of the Yamaha switch has returned to normal.
[mac] label: The transmission load is high at port (n) of the Yamaha switch. (QoS transmission queue: x)

Messages
[mac] label: The transmission load has reached the upper limit at port (n) of the Yamaha switch. (QoS transmission queue: x)
[mac] label: The transmission load of the Yamaha switch (n) has returned to normal. (QoS transmission queue: x)

■ Dante-related notifications

The following messages appear if there is a change in a Dante-enabled device.

Messages
The word clock of <device name> has been unlocked.
The word clock of <device name> has been locked.
The link is down for the primary port of <device name>. Dante is only working for the secondary port.
The link is down for the secondary port of <device name>. Dante is only working for the primary port.
The link is up for the primary port of <device name>.
The link is up for the secondary port of <device name>.
The Dante module of <device name> is operating in safe mode.

■ Messages generated by the snapshot function

The following messages appear when the snapshot function detects a network error, or when snapshot creation is started. **mac** indicates the MAC address of the device that is the subject of the message, **label** indicates the label identifying the device (does not appear when left blank), **n** indicates the port number. Messages are not shown for devices that are not the subject of monitoring by the snapshot function.

Messages
[mac] label: Device status matches the snapshot.
[mac] label: An unregistered device [mac] label is connected.
[mac] label: [mac] label is not connected to port n.
[mac] label: There is a device with an incorrect connection port. Connect [mac] label to port n.
Create a snapshot.
Started creating a snapshot.
Finished creating a snapshot.
Snapshot creation canceled.
Failed to create a snapshot.
[mac] label: There is a port with an incorrect device connected. Connect [mac] label to port n.

■ Messages generated by the PoE function

The following messages appear when the PoE function detects abnormality in a power supply. **mac** indicates the MAC address of the device that is the subject of the message, **label** indicates the label identifying the device (does not appear when left blank), **q** indicates a number that represents the power, **n** indicates the port number, **portIp** indicates the IP address of the device connected to the port, and **portMac** indicates the MAC address of the device connected to the port. Messages are not shown for devices that do not support power supply.

Messages
[mac] label: The power being supplied from Yamaha switch has exceeded the guard-band (q W).

Messages
[mac] label: The power that might be supplied exceeds q W. The power being supplied from Yamaha switch might be interrupted according to the condition.
[mac] label: Yamaha switch has detected down of portIp (portMac).
[mac] label: Yamaha switch has detected portIp (portMac).
[mac] label: Yamaha switch has stopped supplying power to portIp (portMac).
[mac] label: Yamaha switch has started supplying power to portIp (portMac).
[mac] label: Sum of power might be supplied has exceeded the maximum power supply capacity.
[mac] label: Port (n) of the Yamaha switch stopped supplying power because the maximum power has been exceeded.
[mac] label: Power being supplied from Yamaha switch has fallen below the guard-band (q W).
[mac] label: The power supply interruption on port (n) of the Yamaha switch was resolved.
[mac] label: Sum of power might be supplied has fallen below the maximum power supply capacity.

■ Other notifications

Messages
The snapshot file is invalid. Stopped loading snapshot file.
An invalid value was included in the information of the snapshot file. Only the valid information has been applied.
There are conflicting MAC addresses. The MAC address information that was listed first has been applied.
The label settings file is invalid. Stopped loading label settings file.
An invalid value was included in the information of the label settings file. Only the valid information has been applied.
Conflicting MAC addresses exist in the label settings file. The MAC address information that was listed first has been applied.
The History file is invalid. Discarded History file.

Dialog box messages

The following messages are shown in dialog boxes.

■ Warning messages

Messages
This PC has no network interface.
There is no snapshot. Click the snapshot button to create a snapshot.
Dante Controller was not found. Please install Dante Controller.
The snapshot file could not be opened.
The snapshot file could not be saved.
The label setting file could not be opened.
Label setting file could not be saved.
Failed to update the firmware.
Failed to set the IP address.
Invalid IP address — the web settings screen could not be opened.

Messages

The snapshot file could not be deleted.

■ Error messages

Messages

There is no OUI file. Backup the necessary information, and re-install.

The OUI file could not be loaded. Backup the necessary information, and re-install.

The data folder could not be created.

Failed to start the specified snapshot file.

Messages shown in the Result of searching area for Device search

A device search using one or more IP addresses can return the following messages in the Result of searching area. X.X.X.X indicates the IP address of a target device that was pinged or searched for.

Message	Description
X.X.X.X : Reply received.	A ping reply was returned from the target device.
X.X.X.X : Request timed out.	A ping reply was not returned from the target device. * This message is not shown for [IP address range] and [Auto search in local network].
X.X.X.X : Destination unreachable.	The search target does not exist. * This message is not shown for [IP address range] and [Auto search in local network].
X.X.X.X : An internal error occurred.	An internal error has occurred.

Shortcut keys

Shortcut keys used in Yamaha LAN Monitor are as follows.

Result	Key operation
Edit a cell in a list	F2
Update the connection status of the currently selected slave	F5

Check box operations

You can turn the following check box operations on and off.

- Mouse click
- Pressing the space key while selected
- Pressing the Enter key while selected

Troubleshooting

Symptom	Cause	Action
Main screen is not displayed correctly	Network adapter selection is incorrect.	Select the network adapter that is connected to the network that you want to monitor.
	A wireless LAN network adapter is selected.	This software does not support a wireless LAN. Select a wired network adapter.
	Because numerous devices are connected, it is taking a long time to search for devices.	This may take several minutes; please wait. Information is shown consecutively, starting with devices for which information gathering has completed. If a device is still not displayed, check the settings in the "Basic Settings" dialog box.
	Switches or wireless LAN access points made by another manufacturer are connected.	Since this software is optimized for Yamaha switches, it cannot display switches or wireless LAN access points made by other manufacturers.
Dante-enabled device is detected as a conventional terminal	Dante Controller is not installed.	Install Dante Controller, and make network adapter settings in Dante Controller.
	The appropriate adapter is not specified in Dante Controller.	Check the network adapter settings in Dante Controller.
	The computer is not connected to the same subnet as the Dante network.	Check the computer's connections and the switch's VLAN settings, and connect the computer to the same subnet as the Dante network. If you are using VLAN PRESET C on the SWP series unit, information cannot be obtained correctly if the computer is connected to VLAN 2. Connect it to VLAN 1.
	In this software, a computer on which Dante Virtual Soundcard is installed is detected as a device.	—
A single Dante-enabled device is detected as two terminals	This is because most Dante-enabled devices, even if they have only one physical port, have two communication ports internally: a communication port for Dante and a communication port for device control.	This is how the device is designed. Management will be easier if you assign the label and comment to these two ports.
Multiple devices are shown with the same port number	By design, if multiple Dante-enabled devices are connected as a daisy-chain, they are shown together at the same port number as the device that is connected immediately below the Yamaha switch.	—
	By design, devices that are connected below a switch made by another manufacturer are shown together immediately below the Yamaha switch that is located upstream of the switch made by the other manufacturer.	—
Some information of a Dante-enabled device cannot be obtained correctly	In some cases, it might not be possible to obtain certain information for a Dante-enabled device not made by Yamaha.	—

Symptom	Cause	Action
Snapshot function does not work	A snapshot has not been saved.	Click the [Snapshots] button to save the current connection status.
	A device cannot be the object of snapshot monitoring.	<ul style="list-style-type: none"> • In the “Basic Settings” dialog box, select the “Treat equipment as comparison for snapshots” check box. • In the “Connected Devices” view, select Snapshot for each device.
Can't display the Web GUI	The computer's network settings are not appropriate.	<ul style="list-style-type: none"> • In Yamaha LAN Monitor, obtain the IP address of the computer and the IP address of the applicable device before you access the Web GUI. • It could be that the subnet settings of the switch and computer do not match. Check the network settings of each unit. Check the network settings of each unit. • If the Web GUI does not appear even though the network settings are correct, try accessing the Web GUI once again.