Wireless Presentation BOX
Z-1
Setup Guide

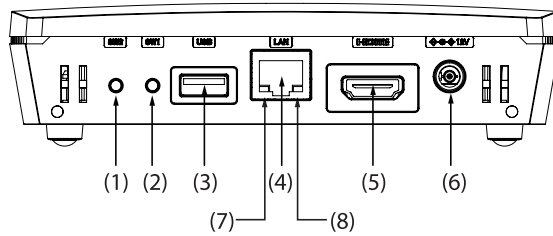silex technology   CE UK CA

WA106000XD

Thank you for purchasing the Wireless Presentation Box " Z-1 ".
Z-1 is a wireless video transfer device designed to use in a meeting room.
The screen of a PC, tablet or smartphone can be projected wirelessly on the display device connected to Z-1.
This document describes how to configure and use Z-1.

Package Contents

Z-1	x1	AC adaptor	x1
Power code	x1	Rubber feet	x4
Warranty booklet	x1	Setup guide (this document)	x1
GPL license notice	x1		

Parts and Functions

Front

(1) (2) (3) (4) (5) (6)
(7) (8)
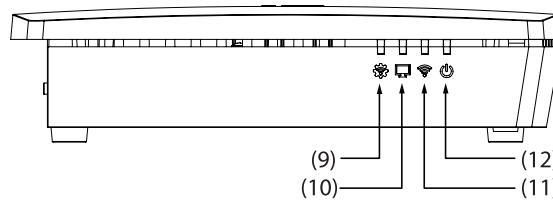
(1) Function switch (SW2)
(2) Reset switch (SW1)
(3) USB port
(4) LAN port
(5) HDMI output interface
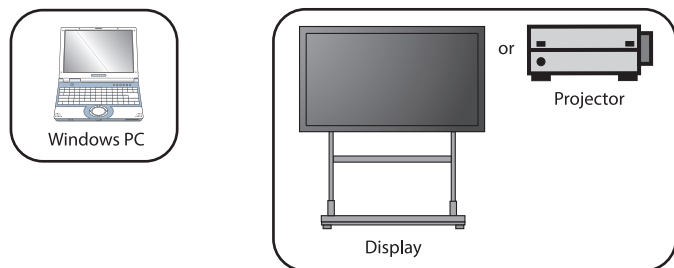(6) DC jack
(7) LINK LED
(8) STATUS LED

Side

(9) (12)
(10) (11)

(9) STATUS LED (blue/red)
(10) DISPLAY LED (blue/purple/red)
(11) WLAN LED (blue/purple/red)
(12) POWER LED (blue/red)

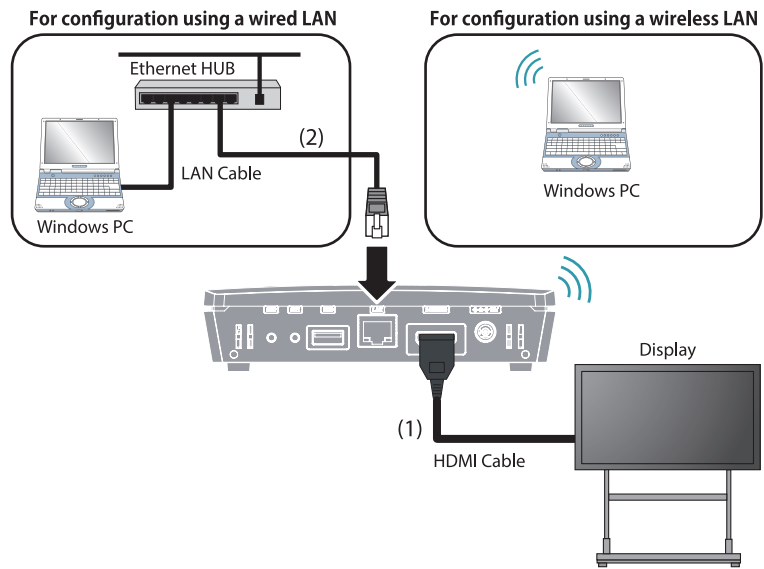* For 'Z-1 Rev.B', the LEDs (9)-(12) do not turn on.

Necessary Items

Windows PC   or
                    Projector
Display

・Windows PC (Wireless PC)
・HDMI compatible display or projector
・HDMI cable
・To use a wired connection or the Access Point feature of Z-1, a LAN cable is required.
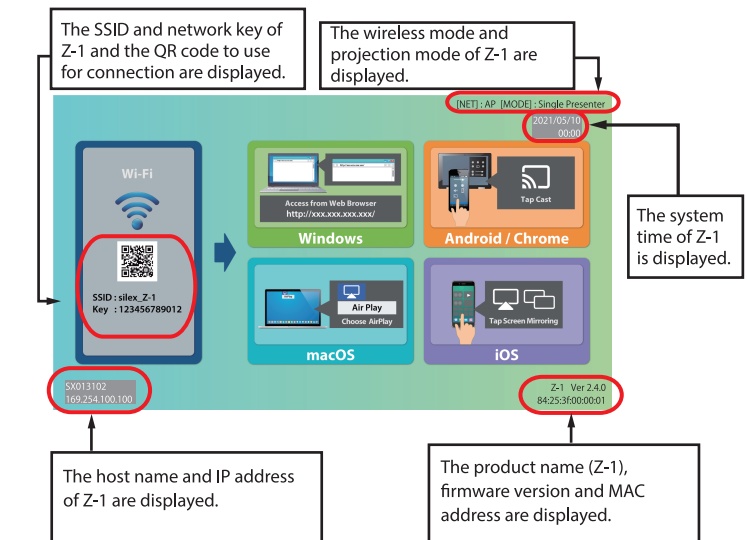
1-1. Connect Display to Z-1

1 Connect the display to Z-1 using an HDMI cable and turn on the display.

2 Connect Z-1 to the PC via a wired LAN or wireless LAN.

For configuration using a wired LAN
Ethernet HUB
(2)
LAN Cable
Windows PC

For configuration using a wireless LAN
Windows PC

Display
(1)
HDMI Cable

1-2. Turn on Z-1

1 Connect the AC adaptor and power code. Then, connect the AC adaptor to the DC jack of Z-1 and the power plug to the outlet.

TIP - Be sure to always use the AC adaptor that comes with Z-1.

2 The startup screen is shown on the display connected to Z-1.
When the animation stops in the middle of the screen, the power-on process is completed. Then, the instruction screen below appears.

The SSID and network key of Z-1 and the QR code to use for connection are displayed.

The wireless mode and projection mode of Z-1 are displayed.

[NET] : AP [MODE] : Single Presenter
2021/05/10 00:00

Wi-Fi

Access from Web Browser
http://xxx.xxx.xxx/
Windows   Android / Chrome
Tap Cast

Air Play
Choose AirPlay   Tap Screen Mirroring
macOS   iOS

SSID : silex_Z-1
Key : 123456789012

SX013102
169.254.100.100

Z-1 Ver 2.4.0
84:25:3f:00:00:01

The system time of Z-1 is displayed.

The host name and IP address of Z-1 are displayed.

The product name (Z-1), firmware version and MAC address are displayed.

Note - By default, Z-1 obtains an IP address using the DHCP client function. When there is no DHCP server in your environment, Z-1 will automatically use the IP address "**169.254.xxx.xxx**".
- By default, the NTP time sync setting is disabled. When there are no NTP servers, it shows the amount of time elapsed since Z-1 is powered on (start with "2001/01/01 00:00").

For configuration using a wired LAN

For configuration using a wireless LAN
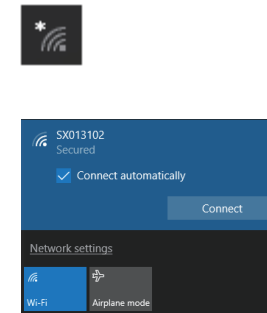
1-3. Connect Windows PC

This chapter explains how to connect a Windows PC to Z-1 as a wireless client.

TIP - When Z-1 is 'Z-1 Rev.B', you cannot check the operating status using the LEDs on the side. To see if Z-1 is 'Z-1 Rev.B', check the bottom label.
When Z-1 is 'Z-1 Rev.B', a black circle is printed on the right side of the barcode.

- Z-1
silex technology, Inc.

- Z-1 Rev.B
silex technology, Inc.

Note - In the following explanation, Windows 10 is used as an example. If you are using an operating system other than Windows 10, follow the appropriate procedure for that operating system.

1 Click the network icon on the notification area (system tray) to show the wireless connection screen.

2 Select the SSID of Z-1(SXxxxxxx) from a list and click **Connect**.

SX013102
Secured
☑ Connect automatically
Connect
Network settings
Wi-Fi   Airplane mode

Note - "xxxxxx" of the SSID(SXxxxxxx) is the lower 3 bytes of the Z-1's MAC Address.
- If **Connect automatically** is checked, the PC will automatically connect to Z-1 every time it is started.

3 Press and hold the function switch of Z-1. When the STATUS LED blinks blue at 2 sec interval, release the switch.

Note - When Z-1 is 'Z-1 Rev.B', release the switch when the LINK LED and STATUS LED of the LAN port blink alternately at every 2 sec.

4 Z-1 starts to communicate with the Windows PC, and configures the same setting to the PC. When the STATUS LED of Z-1 turns blue, the configuration is completed.
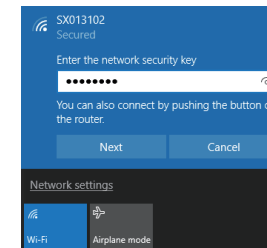
Note - When Z-1 is 'Z-1 Rev.B', the configuration is completed when the LINK LED and STATUS LED of the LAN port turn on.

5 When a message "**Do you want to allow your PC to be discoverable by other PCs and devices on this network?**" appears, click **Yes**.
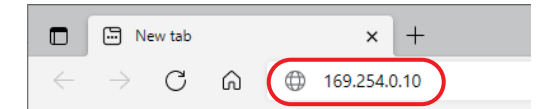
Now, the PC has connected to Z-1.

Note - The PC can also be connected wirelessly by entering the pre-shared key.

Enter the pre-shared key of Z-1 in the **Enter the network security key** box and click **Next**.

SX013102
Secured
Enter the network security key
••••••••
You can also connect by pushing the button on the router.
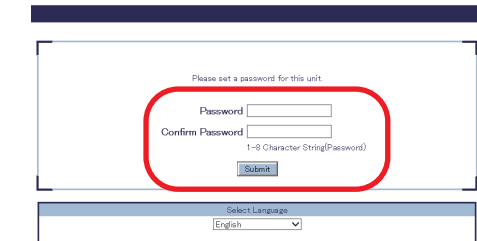Next   Cancel
Network settings
Wi-Fi   Airplane mode

1-4. Access Z-1's Web Page for Initial Configuration

1 Start a Web browser on a PC. To the address bar of the Web browser, enter the IP address of Z-1 (the one shown on the bottom left of the standby screen) and press the Enter key.
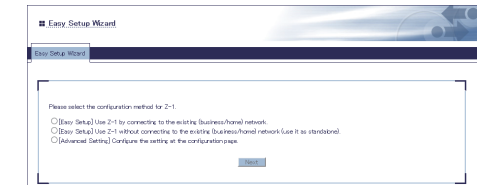Example) When the IP address of Z-1 is "169.254.0.10", enter it to the address bar as below.

New tab
169.254.0.10

2 The login password configuration page is displayed. Enter the login password to configure for Z-1 and click **Submit**.

Please set a password for this unit
Password
Confirm Password
1-8 Character String(Password)
Submit
Select Language
English

TIP - The login password configuration window is displayed only when Z-1 is configured for the first time.

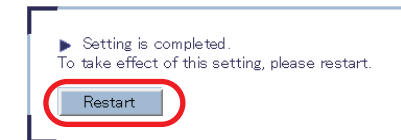**3** The easy setup wizard appears. Configure the appropriate settings according to the wizard.

■ Easy Setup Wizard

TIP - When a screen is projected from Android or when the EAP-TLS certificate needs to be authenticated, the NTP server setting is required. Configure the NTP server in your environment.

Note - If [**Advanced Setting**] **Configure the setting at the configuration page** is selected and **Next** is clicked, the easy setup wizard is finished and the Z-1's Web page (system status page) is displayed.
For detailed configuration method, see **2** of **1-5. Detailed Configuration Using Z-1's Web Page** in the back page.
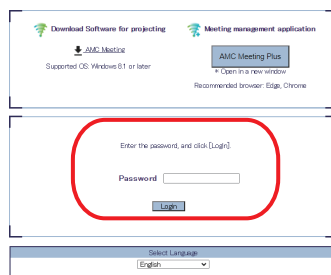
4 When the confirmation message is displayed, click **Restart** to restart Z-1. The new settings will take effect after Z-1 is restarted.

► Setting is completed.
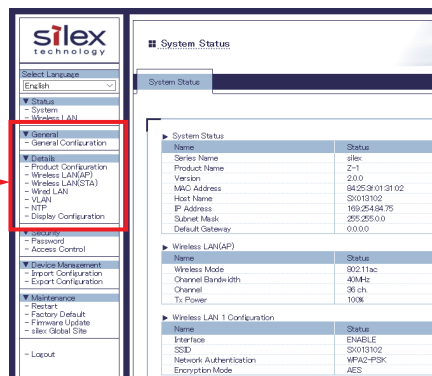To take effect of this setting, please restart.
Restart

The initial configuration has been completed.
For the VLAN setting or the detailed wireless LAN setting, refer to **1-5. Detailed Configuration Using Z-1's Web Page**.

1-5. Detailed Configuration Using Z-1's Web Page

1 When the IP address of Z-1 is entered to the address bar of the Web browser and the Enter key is pressed, the Z-1's login page appears if the initial configuration is finished.
Enter the password for **Password** and click **Login**.

2 The Z-1's Web page (**System Status** page) is displayed. Select the configuration item from the menu.

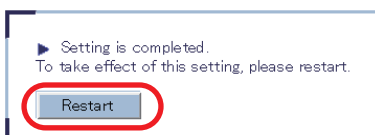| Menu		Description
Category	Item	
General	General Configuration	General settings to use Z-1 (TCP/IP setting, Wireless setting, etc.)
Details	Product Configuration	TCP/IP setting
	Wireless LAN (AP)	Wireless setting to use Z-1 as Access Point
	Wireless LAN (STA)	Wireless setting to use Z-1 as Station
	Wired LAN	Wired LAN interface setting
	VLAN	VLAN ID setting for an SSID of wireless LAN
	NTP	Time setting
	Display Configuration	Video functional setting

3 Configure the necessary settings.

Note - The explanation of each configuration item can be found in the Help window that is displayed by clicking the **Help** icon on top right of the Web page.

4 Click **Submit** when finished entering the setting.

TIP - If the other configuration item is clicked on the menu before **Submit** is clicked, the entered values are cleared. Be sure to click **Submit** to save the settings before you click other configuration item.

5 When the confirmation message is displayed, click **Restart** to restart Z-1. The new settings will take effect after Z-1 is restarted. When you want to continue to configure the settings on other pages, go back to **2** . Restart Z-1 when you have finished configuring all settings.
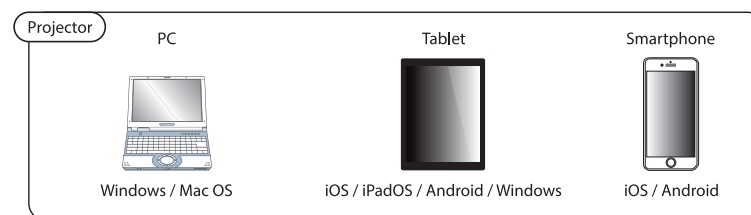
6 The Z-1 setting has been configured. Close the Web page.

2. Start Projection to Connected Display

2-1. Devices to Project from

Prepare the device, screen of which is projected to the display connected to Z-1.

Projector

PC	Tablet	Smartphone
Windows / Mac OS	iOS / iPadOS / Android / Windows	iOS / Android

2-2. Applications Used for Projection

For Windows

AMC Meeting™
This is a utility to project the Windows PC's screen onto the display connected to Z-1. This utility can be used without installation.

AMC Meeting™ plus
This is an Web application for Z-1 to use for meeting facilitation. From this utility, a request of projection can be sent to AMC Meeting™ that is running on the PCs of the attendees. Once the request is sent, AMC Meeting™ starts projection by showing the PC screen of the attendee on the display connected to Z-1. This application runs on the Web page.

AMC Meeting™ Display Extension
This is a display driver to extend the displayed screen on AMC Meeting™. Download this from the Silex Technology's homepage and install it to the PC on which AMC Meeting™ is used (refer to **How to Download User's Manual and Display Driver** for details).

For Android

Google Cast
Screen mirroring and audio transmission features of Android OS can be used. This function can be used only when the projection mode of Z-1 is set to Single Presenter Mode.

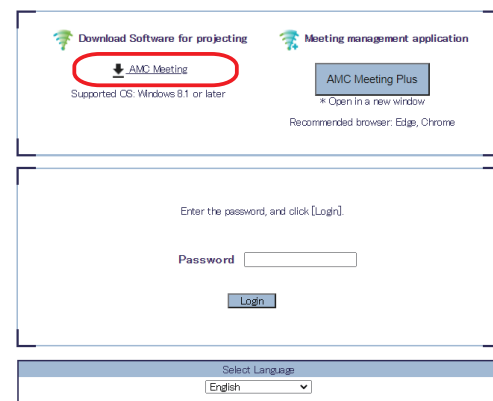*TIP* - The exact time needs to be set to Z-1. Enable the NTP client and synchronize the time setting.
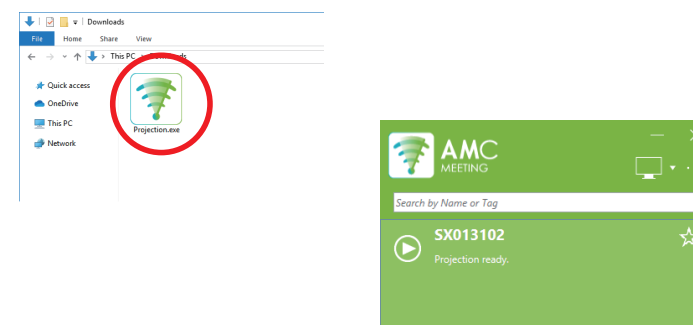
For iOS/iPadOS/macOS

AirPlay
Screen mirroring and audio transmission features of iOS/iPadOS/macOS can be used. This function can be used only when the projection mode of Z-1 is set to Single Presenter Mode.

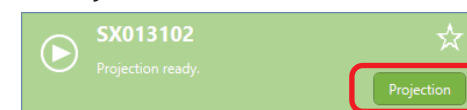### 2-3. Start Projection Using AMC Meeting™ on Windows PC

1 When the IP address of Z-1 is entered to the address bar of the Web browser and the Enter key is pressed, the Z-1's login page appears if the initial configuration is finished. Click **AMC Meeting** to download AMC Meeting™.
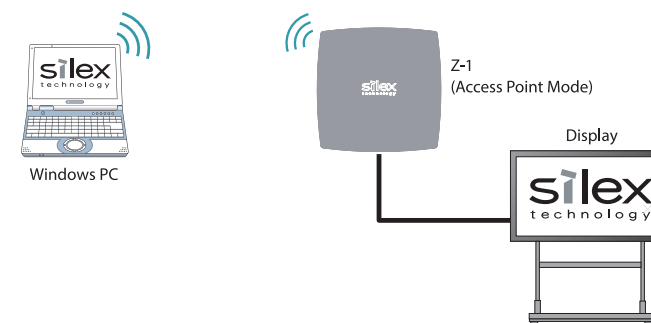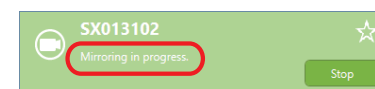
2 Open the folder of the downloaded AMC Meeting™. Execute **Projection.exe** to start AMC Meeting™.

3 From a list in the main window, click Z-1 to start projection to, and click **Projection**.

4 The status changes to "**Mirroring in progress**" and projection starts on the display connected to Z-1.

Windows PC — Z-1 (Access Point Mode) — Display

2-4. Types of Projection Mode

Z-1 applies one projection mode from the compatible five projection modes to output video and audio.
When Z-1 is started for the first time, it will run in a single presenter mode.
For details, refer to the User's Manual.

Single Presenter Mode
Displays a video sent from one presenter in a full screen.

Multi Presenter Mode (Windows PC only)
Video of 2-4 presenters will be displayed on a split screen.
When there is only one presenter, it will be displayed in a full screen as in the single presenter mode. When there are 2 presenters, it will be displayed in 2-split screen. When there are 3 or more presenters, it will be displayed in 4-split screen.

TIP - A video can be displayed to only one screen of the split screen. It is possible to switch the screen to play the video.

Distribution Master Mode / Distribution Slave Mode (Windows PC only)
Distribution Master Mode has the same function as Single Presenter Mode.
It shows the PC screen to the main display as well as re-transmits the received video to devices of Slave Mode (up to 16 devices) in multicast. Distribution Slave Mode is used in combination with devices of Master Mode. It receives video from a device of Master Mode and shows it on the connected displays.

Pair Display Mode (Windows PC only)
By using two Z-1 units of this mode in the network, the presenter's PC screens can be displayed to the connected displays in 2-split screen.

How to Download User's Manual and Display Driver

For more information, go to: **https://www.silextechnology.com/** and select **Resources** from the **Resources** drop-down under the main navigation menu on the Silex Technology's homepage.
Select Z-1 from the list of product choices in the drop-down field and download the associated documents and drivers.

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