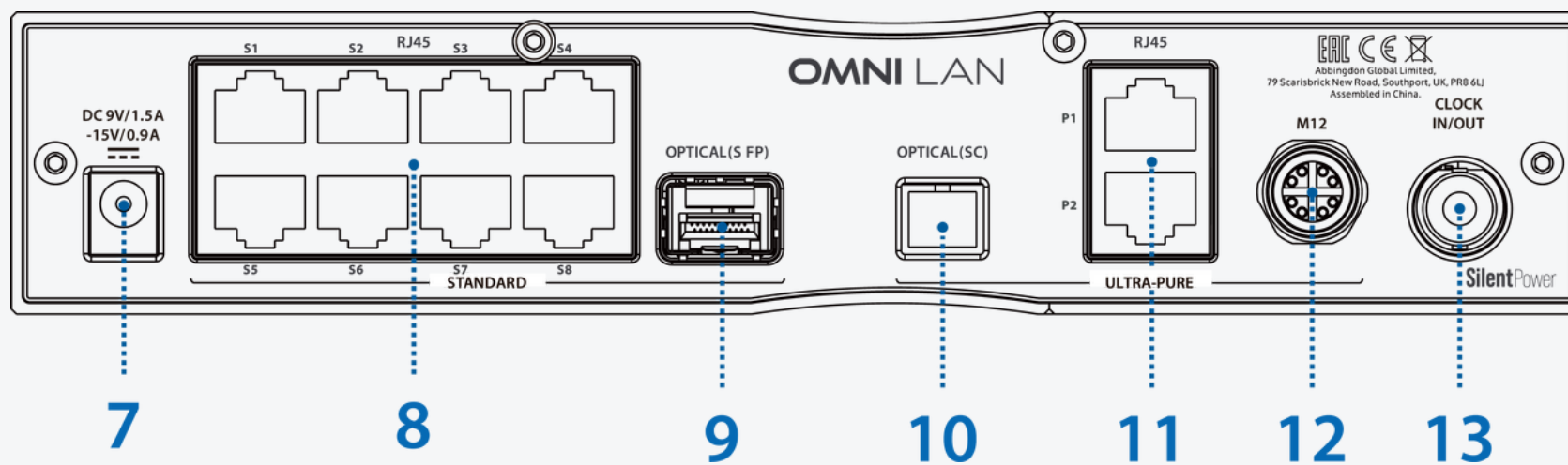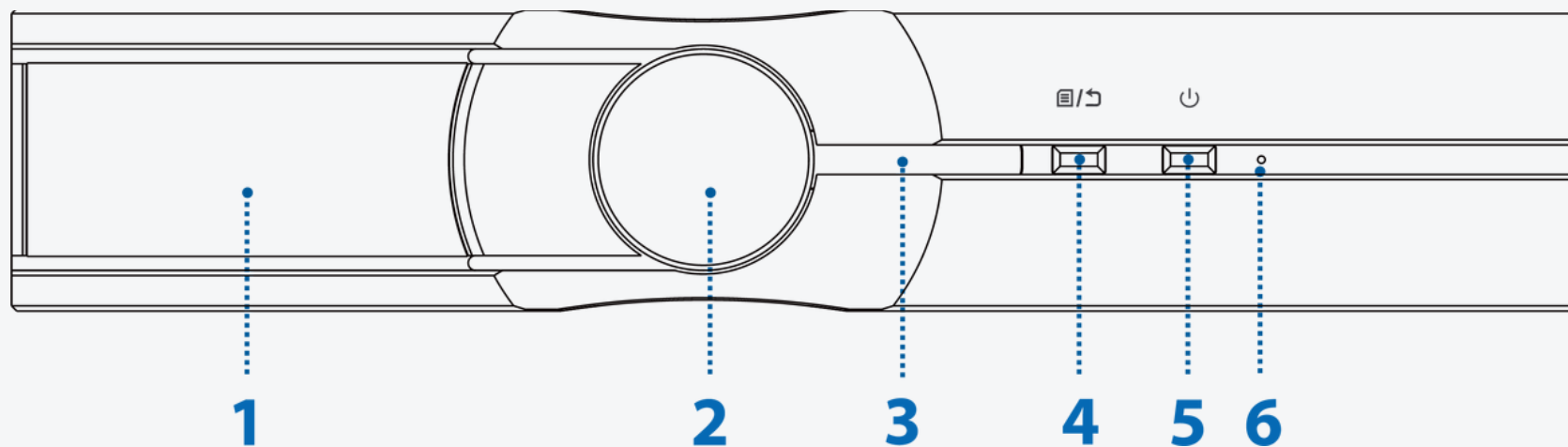# Silent Power

OMNI LAN

User Manual

Thank you for purchasing the LAN from the OMNI series. The **OMNI LAN** is an Optically Isolated Audiophile Network Switch.

FEATURES

- Advanced internal optical isolation to block and eliminate noise

- Triple-stage galvanic isolation for maximum signal purity

- Internal 'GMT' femto-precision clock with input and output sync

- Ultra-low packet loss (<0.1%) and digital jitter (0.05ms)

- Isolated power supply featuring multi-stage LC filtering, and multiple grounding loops

- Diverse connectivity including 10 x 1Gbps RJ45, SFP, SC, and M12-X

- TFT display showing real-time data analytics, with RX/TX speeds per port

- Three grounding modes for optimised ground configuration and sound performance

- Up to 5kV RMS isolation ensures safety and consistent reliability

- NEXIS app compatible for wireless remote control and OTA firmware updates

- Includes audiophile-grade iPower power supply with Active Noise Cancellation

- Position horizontally or vertically – display rotates to suit orientation

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7 DC 9V/1.5A -15V/0.9A

8 S1 S2 S3 S4 RJ45 S5 S6 S7 S8 STANDARD

9 OPTICAL(S FP)

10 OPTICAL(SC)

11 RJ45 P1 P2 ULTRA-PURE

12 M12

13 CLOCK IN/OUT

OMNI LAN

EAC CE

Abbingdon Global Limited,
79 Scarisbrick New Road, Southport, UK, PR8 6LJ
Assembled in China.

SilentPower

# Contents

1. TFT Display

The TFT display shows network status, GND connection, Clock Sync connection, NEXIS application connection, link status, receive rate, and transmit rate for all ports.
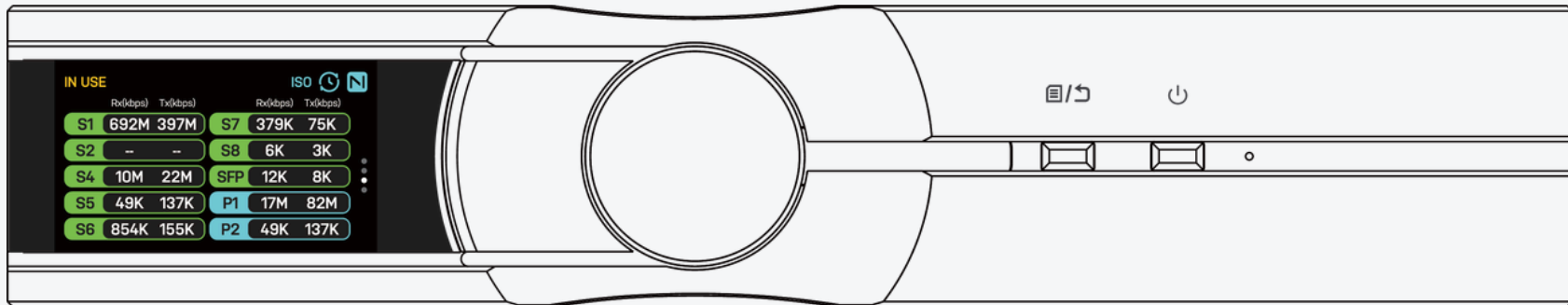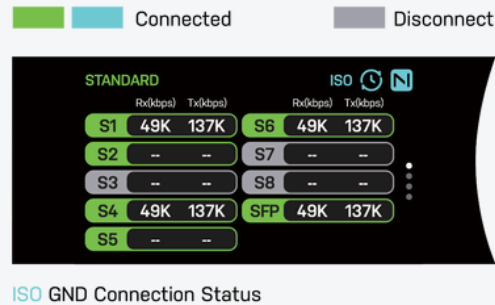

Tip: TFT screen should be on the left-hand side when OMNI LAN is positioned horizontally, and at the top when positioned vertically
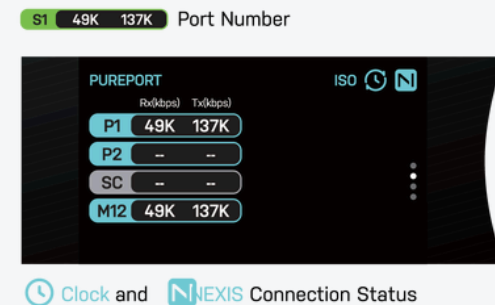
2. Multi-Function Dial

a) On the home page, turning the rotary dial lets you switch between details like network status, link status, receive rate, and transmit rate for the STANDARD and ULTRA-PURE ports."
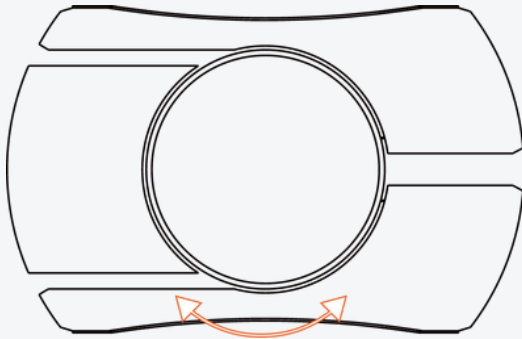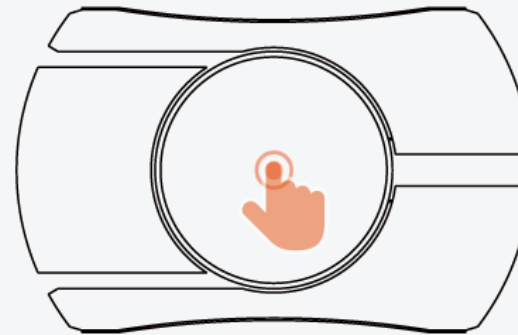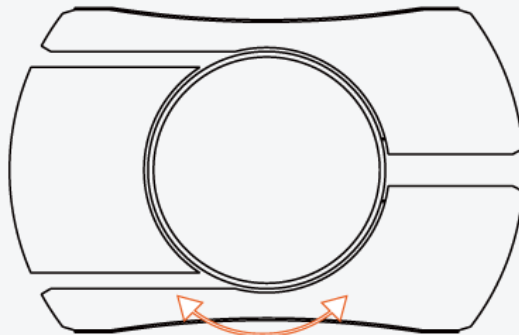

Turn **STANDARD** **PUREPORT**

b) After entering the menu, turning the rotary dial switches the menu functions, and pressing confirms or switches the selection, refer to section (4).
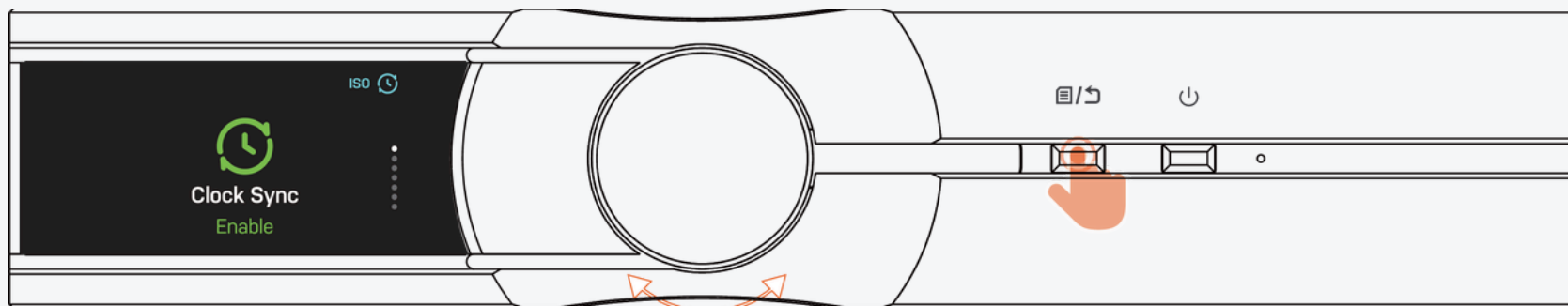
3. Network Status LED

The blue light stays on when data is being sent or received. It turns off when there's no network activity.

4. Enter/Exit Menu Settings

Short press to enter or exit menu settings and return to the homepage.

- Clock Sync	- Brightness	- GND	- Auto Power Restore
- LAN Signal LED	- Factory Reset	- About	

Turn	Short Press

*Note: Turn to select function, short press to confirm selection or toggle on/off mode. If there is no operation within 10 seconds, the display will return to the home screen.*

I) External Clock

This setting Enables or Disables 10MHz External Sync Clock input/output (13) functionality. The default setting is 'Disabled'.

To use an external clock input, set this to 'Enabled'. For more information on external clocking, refer to section (13).

Short Press	Enabled	Disabled

| Detecting External Clock	Detected	Not Detected	Disabled
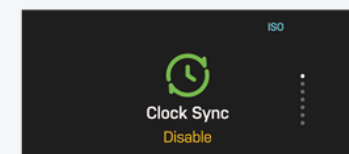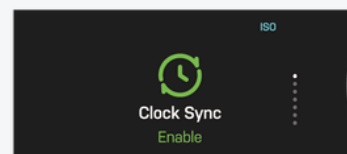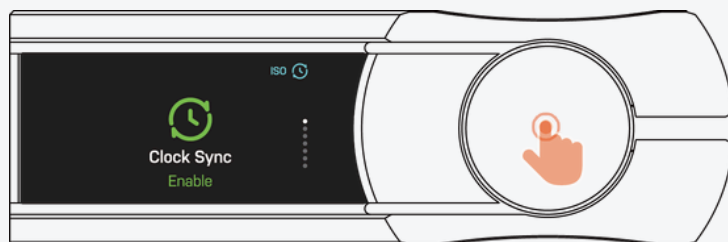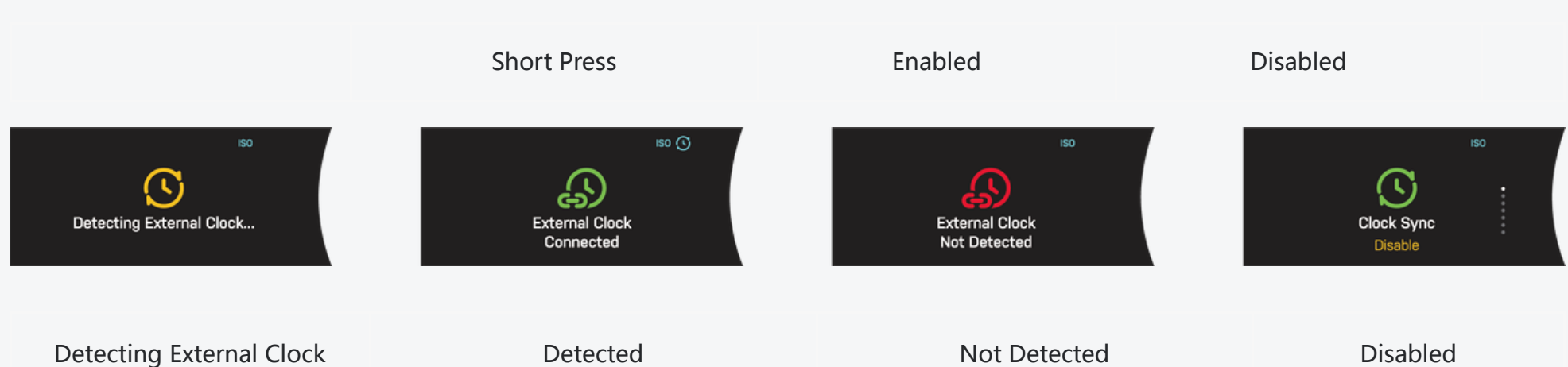
When set to "Enabled", the OMNI LAN will automatically detect the clock signal and a clock detection prompt message appears on the display. If no input or output 10MHz clock signal is detected, or the external clock signal is incorrect, the OMNI LAN will automatically switch back to the internal clock and the Sync clock mode cuts back to "Disabled".

II) Brightness

This setting controls the TFT display screen brightness. The default setting is 'Bright'.

Short press the dial to enter brightness mode selection, turn the dial to choose a setting, then short press to confirm.
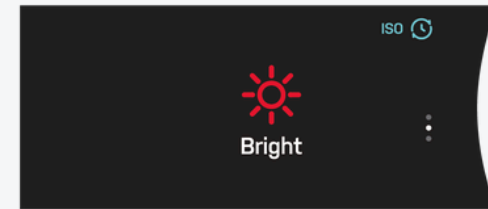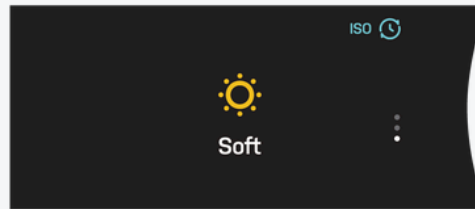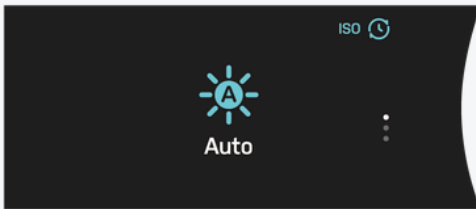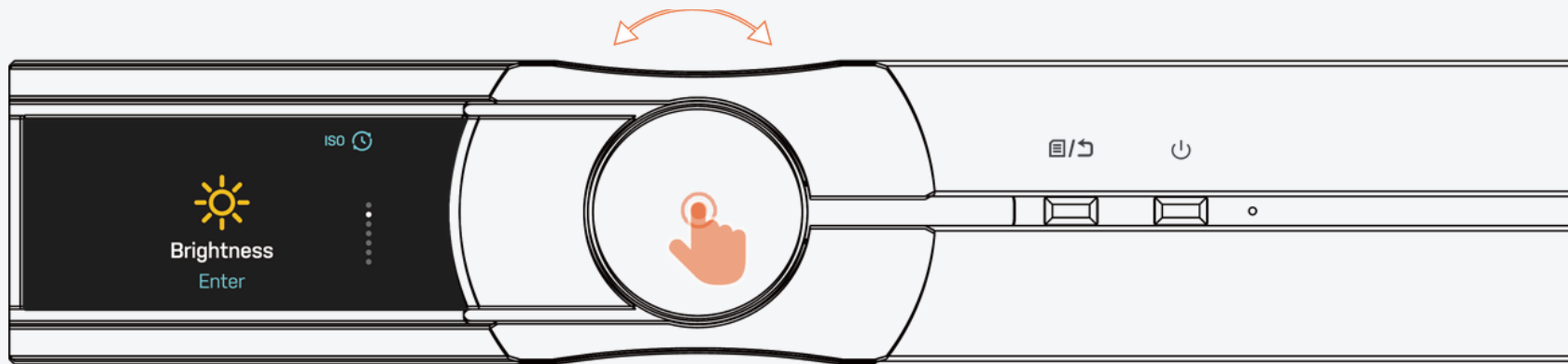
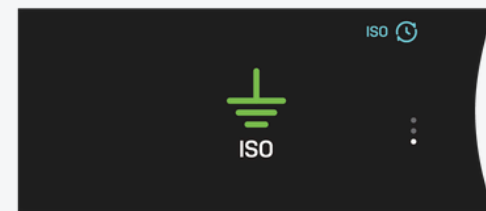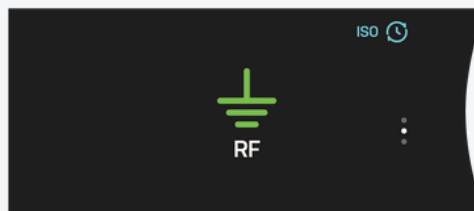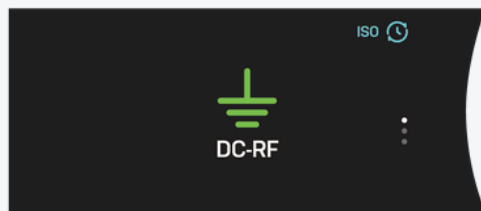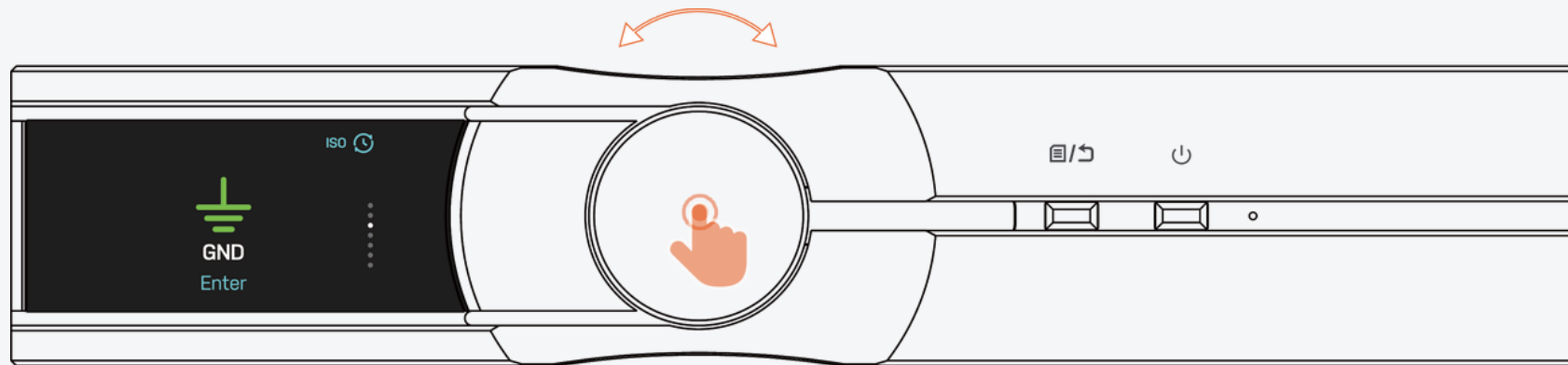| **Bright** | The display brightness always remains bright. |
| **Soft** | The display brightness always remains soft. |
| **Auto** | Auto sleep mode. If no operation is performed within 10s, the display will turn off. |

III) GND

This setting controls the three GND modes. The default setting is ‘DC-RF’.

IV) Auto Power Restore
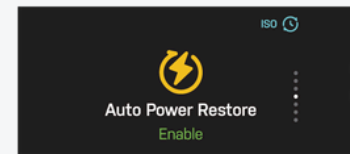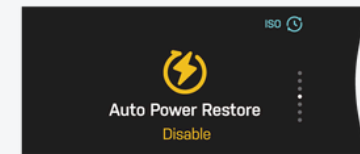
This setting Enableds or Disables Auto Power Restore functionality. The default setting is 'Disabled'.

Short Press   Enabled   Disabled

Tip: When set to 'Enabled', the OMNI LAN will automatically turn on and resume its previous state when reconnected to DC power (9) after the battery has drained or following a power interruption.

V) LAN Signal LED

This setting Enables (Enabled) or Disables (Disabled) the LAN signal LED. The default setting is 'Enabled'.
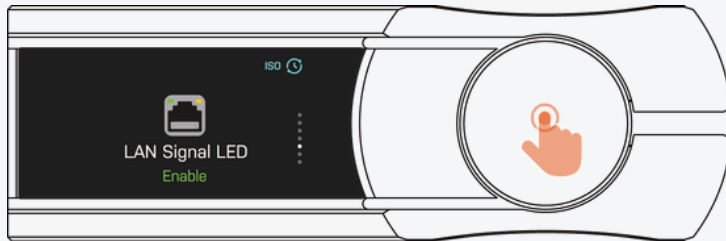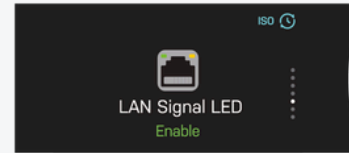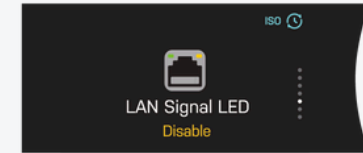

| Short Press | Enabled | Disabled |

VI) Factory Reset

Short press to confirm your selection. A prompt will appear on the screen to RESET, and the device will restart once the operation is complete.
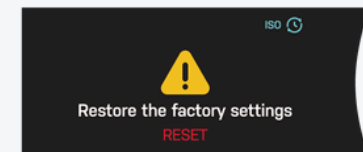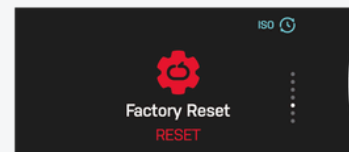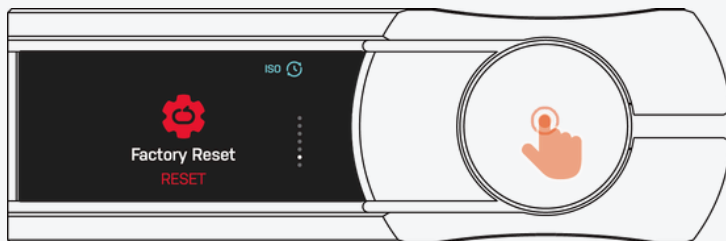
	Short Press	Enter	RESET

WARNING: A factory reset will restore the menu setup options to default mode.

VII) About

View the device name and the current firmware version number (pictures are for illustration only, subject to the actual version of the device).
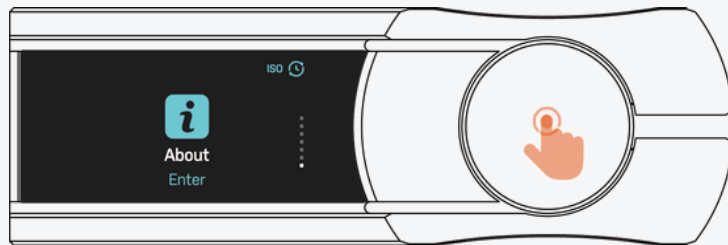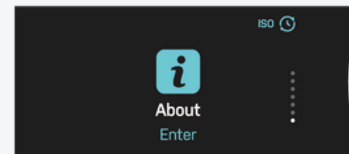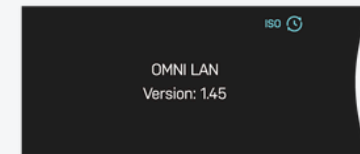
	Short Press	Enter	Version

5. Power On/Off

Short press to switch on, long press ≥ 3s to switch off.
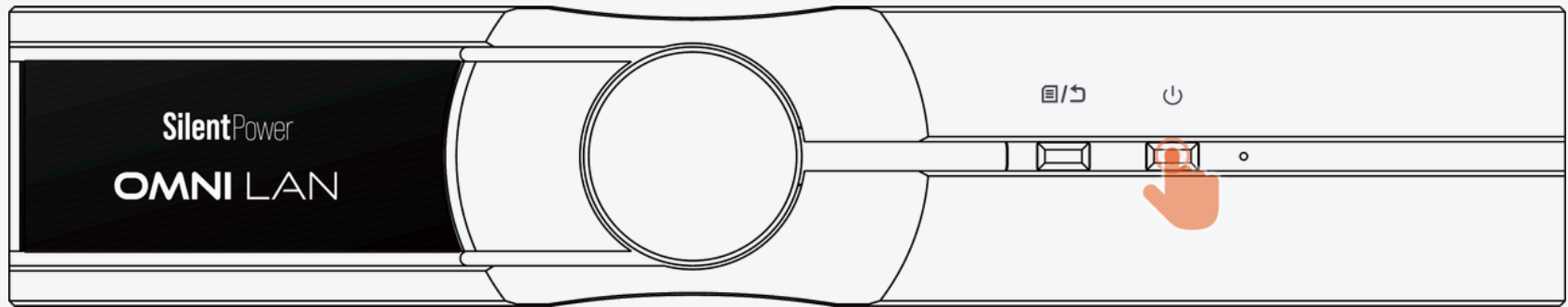
Short press ON
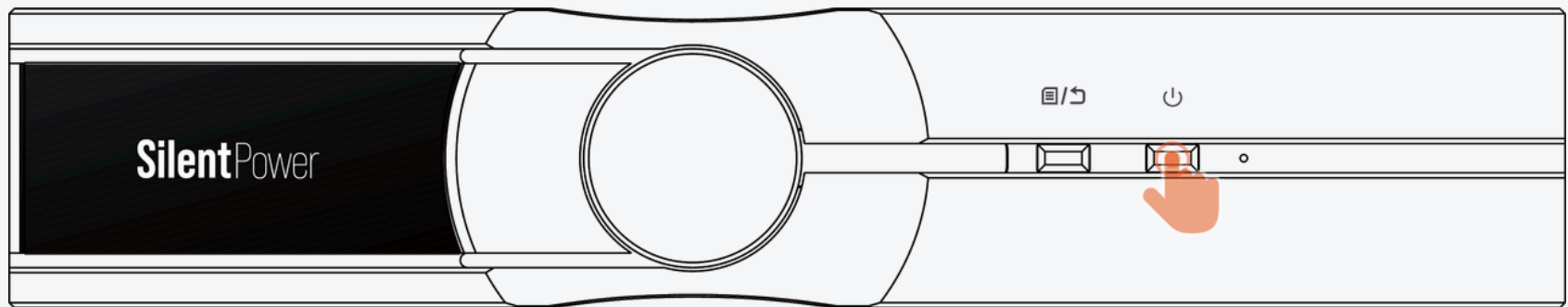
Long press OFF

6. Power Indicator

The white light is always on when the device is turned on; it is off when the device is turned off.
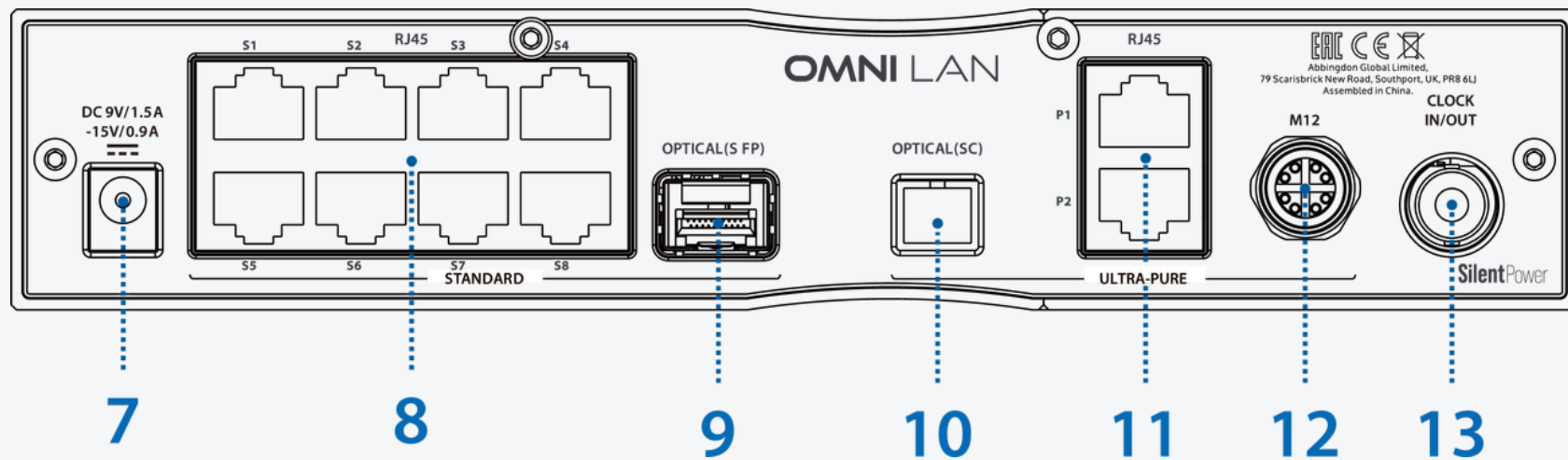
7. DC Power Supply Connection

The OMNI LAN requires a DC 9V/1.5A - 15V/0.9A* power input. Please connect the OMNI LAN to the enclosed power supply.

A power supply unit must be able to deliver minimum rated repetitive current.

STANDARD NETWORK PORT SECTION

Each network port on the OMNI LAN is bi-directional; we recommend to use a 'Standard' network ports as input ports.

8. RJ45 Ethernet Port

Connect a wired network cable with an RJ45 connector.

9. SFP (Small Form Pluggable) Optical Ethernet Port

First, access the SFP (Small Form Pluggable) optical module, then connect it to the fibre optic network cable.

ULTRA-PURE NETWORK PORT SECTION

Each network port on the OMNI LAN is bi-directional; we recommend to use the 'Ultra-Pure' network ports as output ports.

10. SC (Subscriber Connector) Optical Ethernet Port

Connect with an SC single mode optical network cable.

11. RJ45 Ethernet Port

Connect a wired network cable with an RJ45 connector.

12. M12 Ethernet Port

Connect a network cable with an M12 X-code 8-pin connector.

13. Clock Sync Input/Output

Connect to a 10Mhz external clock source (Optional)

To use this feature, set External Sync Clock in the menu to "Enabled".

If no input or output 10MHz clock signal is detected, or the external clock signal is incorrect, the OMNI LAN will automatically switch back to the internal clock, and the clock mode will return to "Disabled".

A sine or square wave signal may be used, 1Vpp nominal, 75Ω.

Set up your OMNI LAN using our iFi Nexis App

Download the Nexis app for added features and future updates

Please search for "OMNI LAN" within the iFi Nexis app.

The iFi Nexis app lets you manage all OMNI LAN features and settings, including OTA upgrades, viewing network status*, and more.**

*OTA, or Over the Air download technology, downloads firmware upgrade packages and upgrades automatically over the network.

Scan the QR code to view the official iFi audio OMNI LAN video on YouTube.

Cautions

1. Avoid extreme heat, cold and humidity.

2. Avoid dropping or crushing the OMNI LAN.

Prolonged Heat Exposure

Your OMNI LAN may become very warm during normal use. It is important to keep it on a hard, stable, and well-ventilated work surface when in use.

Specifications

Performances	
STANDARD Ethernet Port	8 x RJ45
	1 x Optical SFP
ULTRA-PURE Ethernet Port	2 x RJ45
	1 x Optical SC
	1 x M12 X-code 8-pin
Transfer	120 Mbps
Bandwidth	1000 Mbps
Data Jitter	0.052 ms
Lost/Total Datagrams	≤0.1%

General

Isolation Voltage:	5KV RMS
Power supply requirement	DC 9V/1.5A - 15V/0.9A (centre +ve)
Power consumption	No signal ~7W; Max signal ~10W
Dimensions	214 x 158 x 41 mm (8.4"x6.2"x1.6")
Net weight	1.06 kg (2.34 Ibs)
Limited warranty	12 months*

*A power supply unit must be able to deliver minimum rated repetitive current

12 months typical or as permitted/required by local reseller laws.

See FAQ at silentpower tech for more information.

Specifications are subject to change without notice.