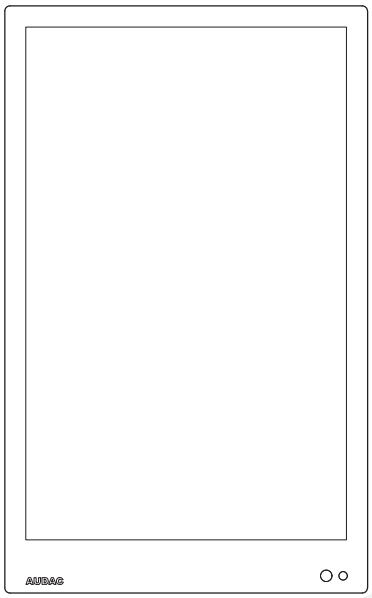
AUDAC

Hardware Manual

RIVEA-M & RIVEA-L



ADDITIONAL INFORMATION

This manual is put together with much care, and is as complete as could be on the publication date. However, updates on the specifications, functionality or software may have occurred since publication. To obtain the latest version of both manual and software, please visit the Audac website @ audac.eu.

REV-1.1

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Introduction

AUDAC Touch™ configurable touchscreen

The RIVEA series is the AUDAC Touch™ configurable touchscreen range featuring a sleek and intuitive user interface designed for professional AV environments. Available with HD 7” or 10” glass front displays, the touchscreens combine elegant aesthetics with powerful performance. The anti-glare and anti-fingerprint finishing, together with the ultra-slim bezel and floating effect, ensure a refined appearance that seamlessly blends into any architectural setting.

Built on a completely new Linux platform, the RIVEA series delivers exceptional reliability, speed, and flexibility. Full AUDAC Touch™ dashboard support enables intuitive configuration, system monitoring, and control, while third-party control compatibility ensures easy integration within a wide range of automation systems.

The RIVEA series forms an extension of the network-controlled product range, while offering compatibility beyond this ecosystem. It can also operate in combination with Atellio and Consenso family products, as well as any device controllable through the AUDAC Touch™ application, ensuring unified system operation across different product families.

Equipped with proximity and ambient light sensors, RIVEA panels automatically adapt the display brightness and standby behavior for optimal user experience and energy efficiency. Designed for long-term scalability and modern aesthetics, the RIVEA series represents a future-ready control interface where design and performance meet.

Precautions

READ FOLLOWING INSTRUCTIONS FOR YOUR OWN SAFETY

ALWAYS KEEP THESE INSTRUCTIONS. NEVER THROW THEM AWAY

ALWAYS HANDLE THIS UNIT WITH CARE

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

NEVER EXPOSE THIS EQUIPMENT TO RAIN, MOISTURE, ANY DRIPPING OR SPLASHING LIQUIDS. AND NEVER PLACE AN OBJECT FILLED WITH LIQUID ON TOP OF THIS DEVICE

NO NAKED FLAME SOURCES, SUCH AS LIGHTED CANDLES, SHOULD BE PLACED ON THE APPARATUS

DO NOT PLACE THIS UNIT IN AN ENCLOSED ENVIRONMENT SUCH AS A BOOKSHELF OR CLOSET. ENSURE THERE IS ADEQUATE VENTILATION TO COOL THE UNIT. DO NOT BLOCK THE VENTILATION OPENINGS.

DO NOT INSTALL THIS UNIT NEAR ANY HEAT SOURCES SUCH AS RADIATORS OR OTHER APPARATUS THAT PRODUCE HEAT

DO NOT PLACE THIS UNIT IN ENVIRONMENTS WHICH CONTAIN HIGH LEVELS OF DUST, HEAT, MOISTURE OR VIBRATION

THIS UNIT IS DEVELOPED FOR INDOOR USE ONLY. DO NOT USE IT OUTDOORS

ONLY USE ATTACHMENTS & ACCESSORIES SPECIFIED BY THE MANUFACTURER

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME

USE THE APPARATUS ONLY IN MODERATE CLIMATES

CAUTION - SERVICING

This product contains no user-serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to)

EC DECLARATION OF CONFORMITY

This product conforms to all the essential requirements and further relevant specifications described in following directives: 2014/30/EU (EMC), 2014/35/EU (LVD) & 2014/53/EU (RED).

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its life cycle. This regulation is created to prevent any possible harm to the environment or human health.

This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose this product at your local collection point or recycling centre for electrical and electronic waste. This will make sure that it will be recycled in an environmentally friendly manner, and will help to protect the environment in which we all live.

FCC WARNINGS

This device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.
This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Connections

CONNECTION STANDARDS

The in- and output connections for AUDAC audio equipment are performed according to international wiring standards for professional audio equipment.

RJ45 (Network, PoE)

Network connections

Pin 1	White-Orange
Pin 2	Orange
Pin 3	White-Green
Pin 4	Blue
Pin 5	White-Blue
Pin 6	Green
Pin 7	White-Brown
Pin 8	Brown

Ethernet (POE):

Used for connecting the RIVEA series in your Ethernet network with PoE (power over Ethernet). The RIVEA series complies with the IEEE 802.3af Type 1 Class 3, 15.4W standard, which allows IP-based terminals to receive power, in parallel to data, over the existing CAT5 Ethernet infrastructure without the need to make any modifications in it.

PoE integrates data and power on the same wires, it keeps the structured cabling safe and does not interfere with concurrent network operation. PoE delivers 48 V of DC power over unshielded twisted-pair wiring for terminals consuming less than 13 watts of power.

The maximum output power depends on the power delivered by the network infrastructure. In case the network infrastructure is not capable of delivering sufficient power, use a PoE injector with the RIVEA series.

While CAT5e network cable infrastructure is sufficient for handling the required bandwidth, it is recommended to upgrade the network cabling to CAT6A or better cabling to achieve the best possible thermal and power efficiency throughout the system when drawing higher powers over PoE.

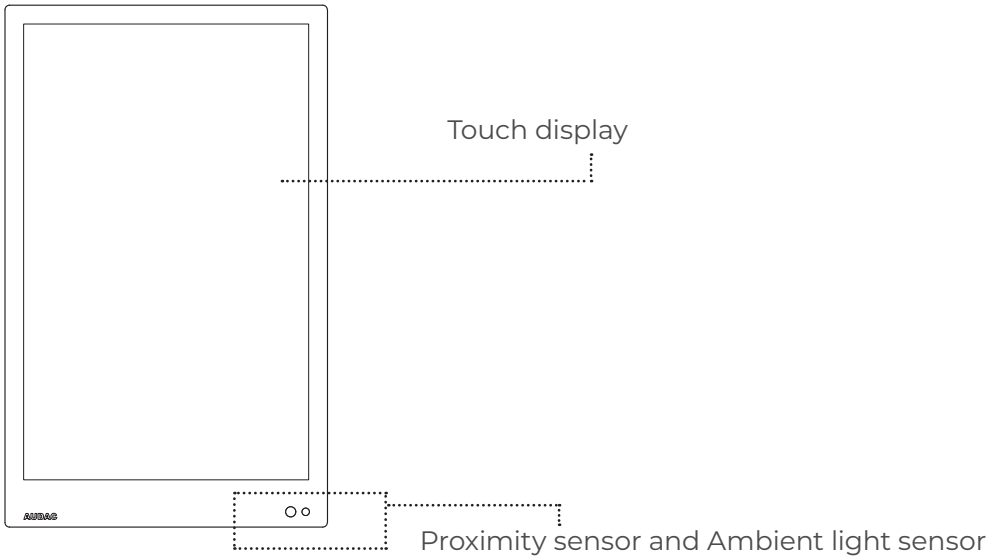
Network settings

STANDARD NETWORK SETTINGS
DHCP: **ON** IP Address: Depending on DHCP (Link local addressing is supported in absence of DHCP) Subnet Mask: Depending on DHCP Gateway: Depending on DHCP DNS 1: Depending on DHCP DNS 2: Depending on DHCP

Chapter 2

Overview front panel

The front panel of the RIVEA series features an anti-glare and anti-fingerprint finish. Combined with the ultra-slim bezel and floating effect, it ensures a refined appearance that seamlessly blends into any architectural setting. The front panel is also equipped with proximity and ambient light sensors, RIVEA panels automatically adapt the display brightness and standby behavior for optimal user experience and energy efficiency.



Front panel description

Touch display
The RIVEA touchscreen features a 7-inch or 10-inch multi-touch capacitive display, providing full control over AUDAC or third-party installations. A custom dashboard can be created within the AUDAC Touch™ application and deployed to the RIVEA series touchscreen, allowing users to operate and monitor system functions directly from the display.

Proximity sensor
The proximity sensor detects when a user approaches the touch panel. When movement is detected nearby, the display automatically turns on. If no presence is detected for a defined period, the display turns off completely to reduce power consumption.

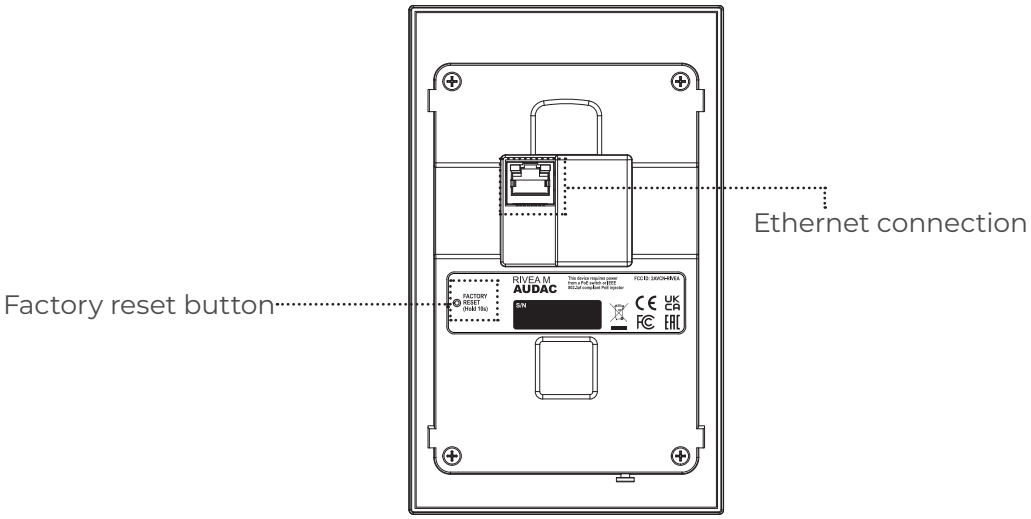
The proximity sensor can be configured or disabled in the device settings. When the sensor is disabled, the display remains continuously active.

Ambient light sensor
The ambient light sensor automatically adjusts the display brightness according to the surrounding light conditions. For example, the display will dim in darker environments and increase to maximum brightness when exposed to direct sunlight, ensuring optimal visibility and comfort.

The ambient light sensor can be enabled or disabled in the device settings. When the sensor is disabled, a fixed brightness level can be manually configured.

Overview rear panel

The rear of the RIVEA series includes an Ethernet connection port used to connect the wall panel to the network via an RJ45 connector, as well as a pin-hole style button providing access to the factory reset function.



Rear panel description

Ethernet connection
The Ethernet connection is the essential connection for the RIVEA series. Both configuration, as well as control and power (PoE), are over the Ethernet network. This input shall be connected to your network infrastructure. The LEDs accompanying this input indicate network activity.

Factory reset

A pin-hole style factory reset button allows users to clear all persistent settings and restore the device to its default configuration.

Installation

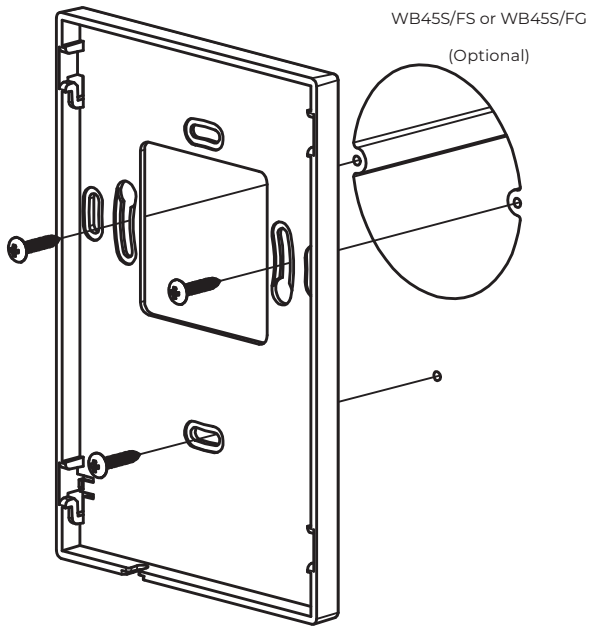
This chapter guides you through the setup process for a basic setup where a RIVEA series touchscreen should be connected to a system with a wired network. The touchscreens are compatible with standard EU-style in-wall boxes, making the wall panel the ideal solution for solid and hollow walls. Provide a twisted pair cable (CAT5e or better) from the network switch to the wall panel. The maximum safe distance between the PoE switch and the touchscreen is 100 meters.

The following steps show the portrait mode installation of a RIVEA series touchscreen. The same steps also apply to landscape mode installation.

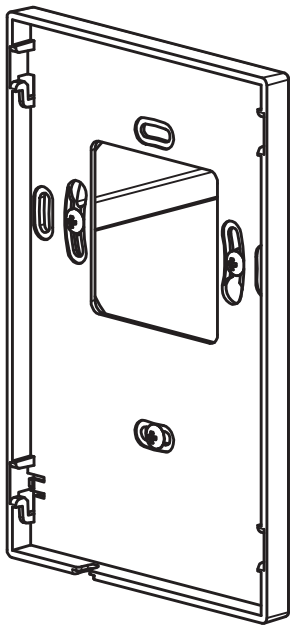
Steps 1 and 2 indicate that at least one additional screw is required for secure wall mounting, depending on whether you are installing the RIVEA-M or RIVEA-L model.

Steps 5 and 6 show how to apply the anti-theft locking mechanism.

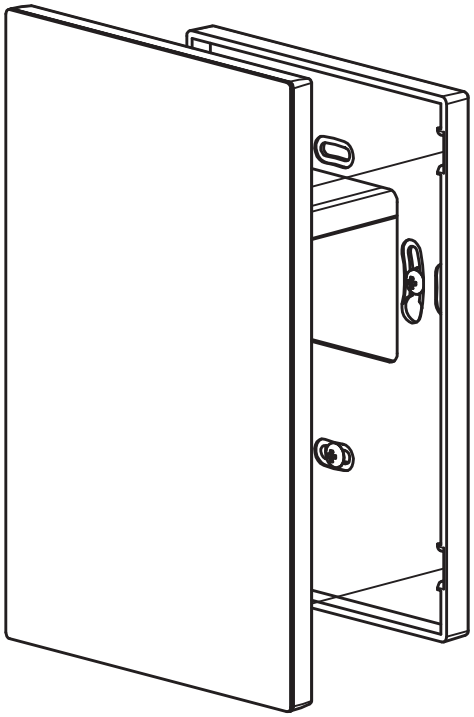
Step 1:



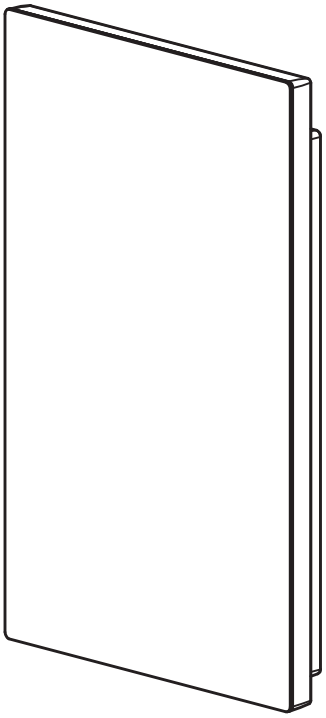
Step 2:



Step 3:



Step 4:



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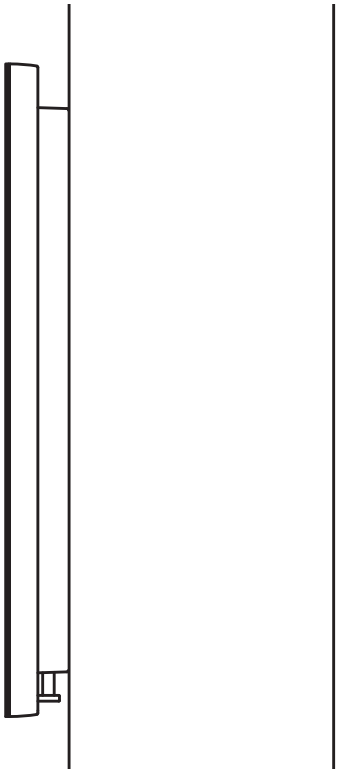
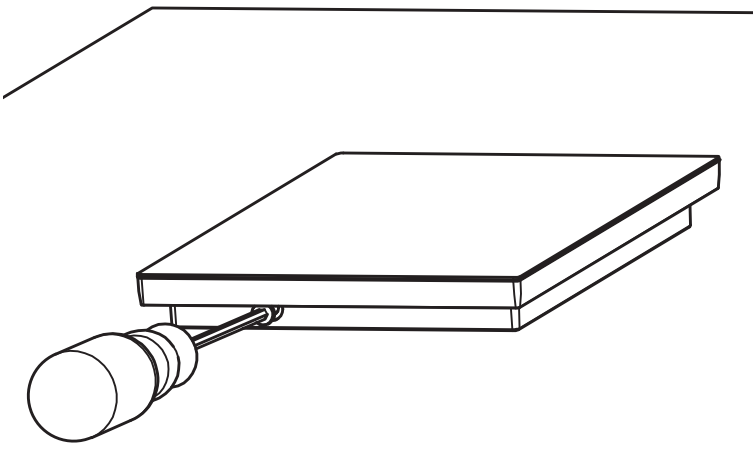


Step 6:



Chapter 3

Quick start guide

This chapter guides you through the setup process for a RIVEA series AUDAC Touch™ configurable touchscreen. The configuration of the touchscreen is done through Audac Touch™.

Connecting the RIVEA series

Connect your RIVEA series AUDAC Touch™ configurable touchscreen to a PoE-powered Ethernet network with a CAT5e (or better) networking cable. In case the available Ethernet network is not PoE compatible, an additional PoE injector shall be applied in between. The operation of the RIVEA series touchscreen can be monitored through the display on the front panel of the unit, which shows system settings of the touchpanel when it is not configured.

Configuring the RIVEA series

Once the RIVEA series AUDAC Touch™ configurable touchscreen is powered on, dashboard and other settings of the touchscreen can be configured using the Audac Touch™ platform, which can be freely downloaded and operated from various platforms. This platform is very intuitive to operate and automatically discovers all available compatible products on your network.

Factory reset

Press and hold the factory reset button for 10 seconds. There will be no visual indication during this time. After 10 seconds, the device will reboot. Release the button once the reboot starts. When the device has fully restarted, the factory reset is complete.

Technical specifications

	RIVEA-M	RIVEA-L
Display size	7 inch	10 inch
Display type	IPS LCD display	
Touch type	Multi Touch Capacitive Touch Panel (CTP)	
Touch interface material	Glass	
Resolution	1280 x 800 pixels	
Brightness	420 nits (cd/m²) ± 20	410 nits (cd/m²) ± 20
Color depth	24-bit	
Minimum viewing angle	80°/80°/80°/80° view angle (each direction)	
Panel orientation	Landscape and portrait	
Sensors	Proximity Sensor Ambient Light Sensor	
Buttons	Pin-hole	
Connectors	Ethernet (RJ45)	
Power	PoE IEEE 802.3af Type 1 Class 3, 15.4W	
Operation temperature range	0°C - +40 °C	
Operating humidity	25% to 80% RH non-condensing	
Colour	White (RAL9003)	
	Black (RAL9004)	
Product dimensions (W x H x D)	106.6 x 172.5 x 21.7 mm	153 x 243.1 x 22.2 mm
In-wall Depth	5 mm	5 mm
On-wall Depth	16.7 mm	17.2 mm
Weight	0.34 kg	0.60 kg
Optional accessories	RIVEA-AMK10/B WB45S/FS WB45S/FG	

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