Safety and Precautions
VAIA-48V

Observe all safety information both on the equipment and in this leaflet.

For all other user documentation please scan the QR code or go to
https://www.zenitel.com/product/transportation-solutions/public-address-voice-alarm/asl-pava-systems

Search or browse to select the product.

WEIGHT

The VAIA-48V weights approximately 8.5 kg.

Move and handle with care to avoid strain or impact injuries.

Do not use the handles to lift or carry the unit. The handles are designed for sliding the unit into and out of the equipment rack, and not to support its weight.

Use the underside edges to lift and carry it.

INSTALLATION

The VAIA-48V is designed for professional use only and must be installed in a restricted access location and such that there is no operator access to the internals of the VAIA-48V or its wiring.

ENVIRONMENTAL

Always ensure that adequate ventilation is provided for the VAIA-48V by fitting 1U ventilation panels above and below the equipment and do not block ventilation holes or air flow.

The temperature and humidity ranges shown in the specifications for the must not be exceeded.

The VAIA-48V should not be installed at altitudes exceeding 2000 m.

The VAIA-48V should not be used in tropical environments.

The VAIA-48V must not be installed in an area that is subject to a corrosive atmosphere, excessive moisture or may allow water or other liquids to come into contact with the unit or its external connections.

Objects containing liquids should not be placed upon the VAIA-48V.

LED AND LASER COMPONENTS

The VAIA-48V is a Class 1 LED product.
The VAIA-48V with fibre optic modules is a Class 1 Laser product.

EMC

In the close proximity of some radio frequency transmitters, the signal to noise ratio of the VAIA-48V may be reduced. If this occurs, re-location of the VAIA-48V or the signal cables is recommended.

ESD

The VAIA-48V contains static-sensitive devices. Observe ESD precautions when handling this product with the cover removed.

Zenitel GB
Unit 17 Cliffe Industrial Estate
Lewes,
BN8 6JL
UK

www.zenitel.com

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OPTICAL FIBRE CONNECTOR AND MODULE HANDLING

Optical fibre connectors and modules are precision-made components and must be handled accordingly.

Do not expose optical fibre connectors and modules to impact as damage to the surface of optical connectors may cause higher attenuation impairing the transmission quality.

Always fit optical fibre connectors and modules with protective caps to guard them against mechanical damage and contamination. The protective caps should only be removed prior to installation.

Once the protective caps have been removed, check the surfaces of the optical fibre connectors to ensure that they are clean, and clean them if necessary.

Clean the optical fibre connectors using a special optical fibre cleaning tool or a clean lint-free cloth. Isopropyl alcohol (99%) can be used for cleaning.

BATTERY REPLACEMENT, HANDLING AND STORAGE

Caution! Risk of explosion if battery is replaced by an incorrect type.

The VAIA-48V contains a lithium battery.

The maximum temperature rating of the battery varies from manufacturer to manufacturer.

The temperature rating of the chosen battery must be greater than 80°C. Suitable replacements include Murata CR2032X, Maxell CR2032 or Panasonic BR2032 (Zenitel/ASL PN 211071).

Dispose of all batteries responsibly by using authorised Waste Contractors and by ensuring all relevant local waste regulations are followed.

Dispose of used batteries according to the instructions.

Never bury in the ground or incinerate at end-of-life.

POWER CONNECTIONS

Ensure that power supply cabling is adequately rated for the unit's operating current and temperature and is protected against short-circuit by a correctly rated circuit breaker.

Using too thin a cable can cause a safety hazard and will give excessive voltage drop and operational failure.

SERVICING AND INSTALLATION

Servicing and installation work should be carried out by qualified personnel only.

Service Access is permitted only to those with the necessary training and expertise and can take responsibility for their own safety when working on the VAIA-48V.

The VAIA-48V contains wiring that is energised to 48 V DC power and 100 V RMS audio signals at up to 20 kHz.

Terminals marked with the ⚡ symbol are hazardous, and the external wiring connected to these terminals requires installation by qualified personnel.

Caution! Electrical shock hazard. Disconnect all power supplies.

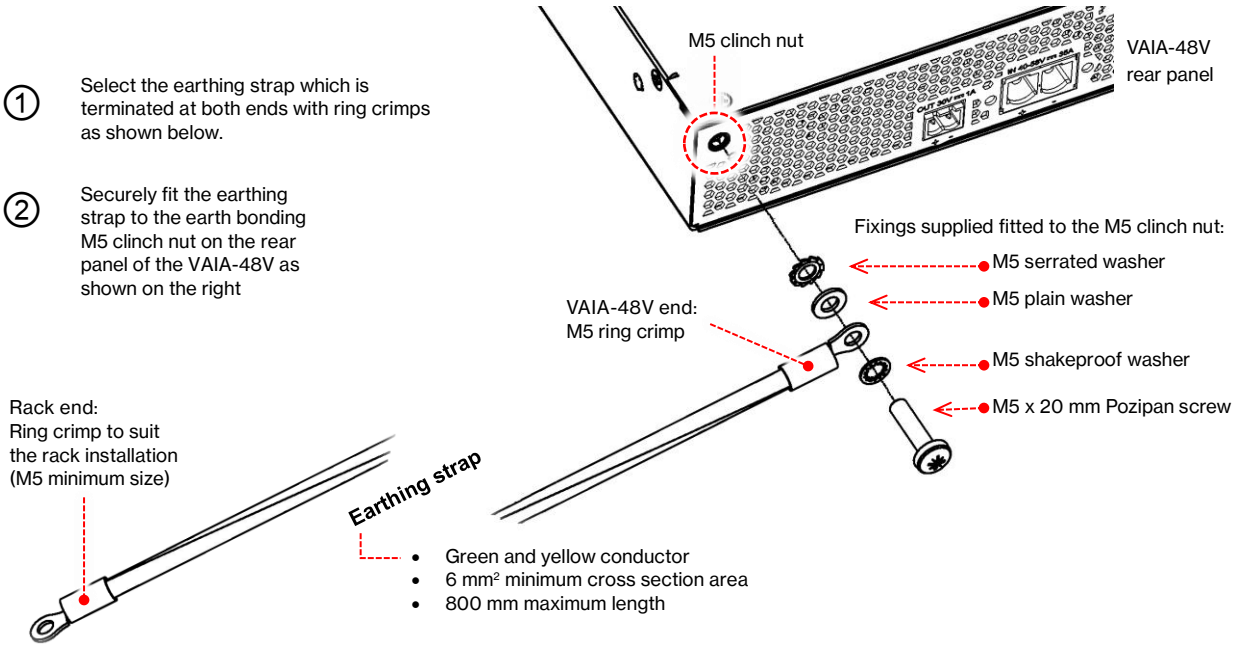
Always isolate the supply by switching off the VAIA-48V at the power supply source before installation, servicing or maintenance.

Use caution when working with the VAIA-48V. The equipment case may get hot.

Always ensure that the VAIA-48V is correctly connected to a protective earthing connection using an earthing strap as described in the diagram below.

① Select the earthing strap which is terminated at both ends with ring crimps as shown below.

② Securely fit the earthing strap to the earth bonding M5 clinch nut on the rear panel of the VAIA-48V as shown on the right



③ Securely connect the earthing strap to the rack at a suitable location using appropriate fixings.

Recommended rack fixings:

- 1 x ring crimp with M5 minimum size.
- 1 x bolt matching the ring crimp size.
- 1 x toothed earthing cage nut matching the ring crimp size.
- 1 x shakeproof washer matching the ring crimp size (to be fitted between the ring crimp and the bolt head)
- 1 x toothed earthing washer matching the ring crimp size (to be fitted between the ring crimp and the rack, with the teeth facing the rack)

The earthing strap connection to the rack must be verified by qualified personnel.

because communication is critical

Zenitel GB
Unit 17 Cliffe Industrial Estate
Lewes,
BN8 6JL
UK