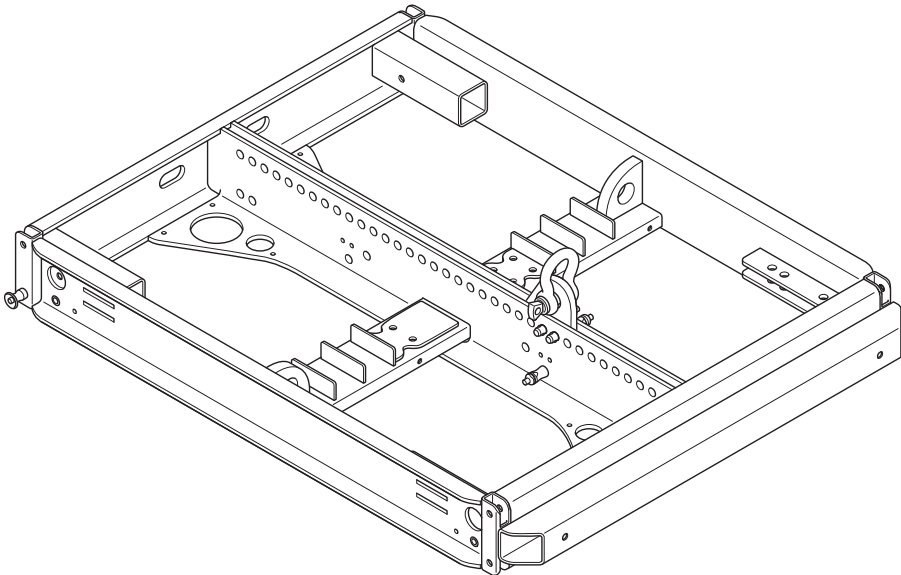


VERA RF900 | Assembly Manual



Introduction

Thank you for choosing a high quality product "MADE IN GERMANY" from TW AUDiO.

The rigging frame VERA RF900 is a mounting kit for VERA36 and VERA S33 loudspeakers.

The features of this accessory kit are its uncomplicated quick handling, its unobstrusive look and its ratio in size and weight.

If you lend your product to another party, inform that party of the safety-related operating procedures and hand over this operating manual. If you therefore require additional copies of this operating manual, they can be obtained free of charge from TW AUDiO or downloaded from: www.twaudio.de

Instructions in the assembly manual

Strictly adhere to the instructions contained in this assembly manual that are marked as follows:



This symbol in combination with the signal word "Warning" identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to serious injury or even death.



This symbol in combination with the signal word "Caution" identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to light or moderate injury.



This symbol in combination with the signal word "Note" identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to product damage.



This symbol in combination with the signal word "Tip" identifies additional information or notes that will simplify working with TW AUDiO products on the basis of practical experience.

Notes on the products

Read manual before use!

Before setting up the rigging frame, carefully read the assembly manual and keep this document in a safe place together with the VERA RF900 mounting kit.

General information

Assembly manual: AM-VERA RF900
Version 1.0 en, 07/2016
© by TW AUDiO 2016; all rights reserved.

All information contained in this operating manual was correct to the best of our knowledge at the time of printing.

Quality warranties or assurance of suitability for a certain type of use based on the technical specifications, dimensions and weights are not granted by TW AUDiO.

TW AUDiO also shall not assume liability for any secondary damage (property damage and/or personal injury) nor for the failure to comply with this operating manual.

TW AUDiO reserves the right to make changes that take into account the latest engineering advancements.

TW AUDiO is pleased to receive suggestions for improvement and recommendations on this operating manual. Please send us any feedback you may have to the following e-mail address.

info@twaudio.de

TW AUDiO GmbH
Osterholzallee 140-2
71636 Ludwigsburg, Germany

Telephone: +49 (0) 71 41 - 48 89 89 0

Telefax: +49 (0) 71 41 - 48 89 89 99

Content

Safety | Intended use 1

Overview 3

 Purchased parts package 3

 Arrangement of the accessories on the VERA RF900 for storage 3

Technical Data 4

 Data sheet 4

Setting up the rigging frame 5

 Setup 5

 Secondary safety mechanism 5

 Use of Load-adapter VERA LA900 6

 VERA RF900 rigging frame (FLOWN) 8

 VERA RF900 rigging frame (GROUNDSTACK) 9

Transport and storage 10

CE Conformity Declaration 11

Disposal 12

1. Safety | Intended use

Please adhere to the following safety instructions to avoid risks when operating the accessory parts.

The VERA RF900 rigging frame was developed for professional use in sound systems.

TW AUDIO GmbH shall not be held liable for any damage that ensues from unintended use.



Check that the accessory kit is complete and that all parts are in good condition before mounting them.

The accessory kit contains a specific Load-adapter with shackle. Use only these.



The VERA36 and/or VERA S33 are only to be used with assembly kit VERA RF900.

All parts described in the manual (VERA RF900, VERA LA900) are only to be used as described. Any other use is not permissible and may lead to injury and damage of the parts.

Any form of modifications of the elements is strictly prohibited. Danger to life!



The assembly kit VERA RF900 is suitable for indoor and outdoor applications.



The VERA RF900 should be handled by qualified and trained personnel only. Before every use the VERA RF900 has to be checked if it is ready for use.



Do not use the rigging frame VERA RF900 if any form of damage is visible.



Before mounting the rigging frame VERA RF900 check that ceilings, trusses are capable of carrying the payload of the VERA RF900.

The VERA RF900 has a payload of 24 pieces VERA36 or 12 pieces VERA S33. Do not exceed this payload



When working with heavy loads over 20 kg [44,09 lbs], use suitable aids (dollies, hoisting slings, etc.). Multiple people may be required depending on the situation.



When moving the VERA RF900 rigging frame (mounting, removal, maintenance) with the VERA36 and/or VERA S33 loudspeakers, ensure that there is enough clearance to avoid collisions with other objects.



When installing the VERA RF900 rigging frame, ensure that the power cable and other lines of the VERA36 and/or VERA S33 loudspeakers are not crushed or twisted. The applicable national electro-technical rules and regulations apply.



Check the screw connections every time you install the VERA RF900 rigging frame. Tighten if loose. If this is not possible, replace the fasteners.

2. Overview

2.1 Purchased parts package

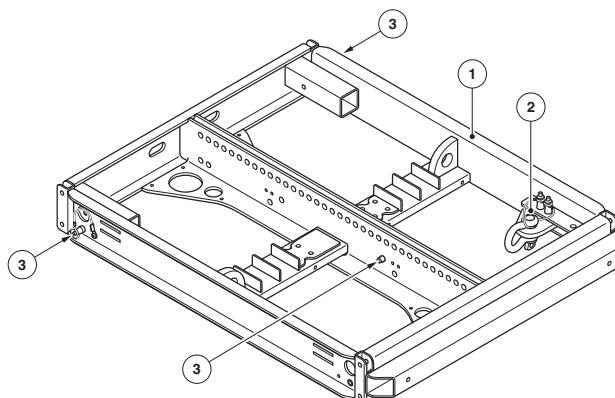


Figure 2.1 - Overview

1. Rigging frame VERA RF900 - surface finish Powder coated
2. Load-adapter with shackle VERA LA900
3. Captive locking pins



The VERA RF900 rigging frame is delivered with the VERA LA900 load adapter, shackle and locking pins in the "storage position".

2.2 Arrangement of the accessories on the VERA RF900 for storage

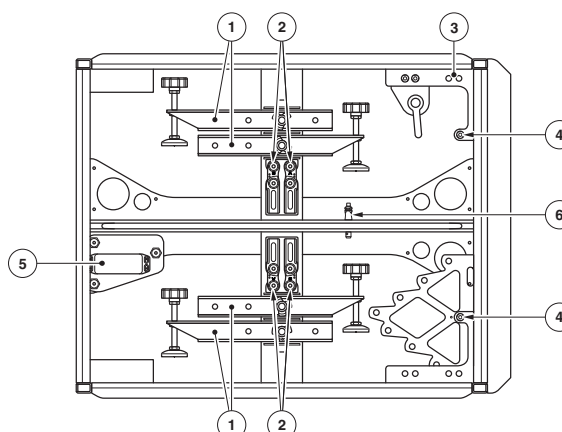


Figure 2.2 - Overview

1. Outrigger VERA ORF900 for use with VERA RF900 as Groundframe
2. Boxlink-Set BLS
3. Place for additional Load-adapter with shackle VERA LA900
4. Groundstack-Kit VERA GSK36
5. Clinometer-Set VERA LAS900
6. Connection Point

3. Technical Data

3.1 Data sheet

Carrying capacity max.	24 VERA36 or 12 VERA S33
Dimensions (h x w x d)	700 x 850 x 100 mm [27,56 x 33,46 x 3,94 in]
Weight	34,5 kg [76,1 lbs]
Finish	powder coated
Max. length of system structure	7,50 m [295,26 in]

4. Setting up the rigging frame

4.1 Setup

The rigging frame VERA RF900 is designed for hanging and standing operation. A variety of accessories is available from TW AUDiO to securely attach the rigging frame, e.g. on hanging from trusses and chain/motor hoists. Vertical operation is not intended.



NOTE

TW AUDiO recommends using only the accessories specified by TW AUDiO to secure the rigging frame.

4.2 Secondary safety mechanism

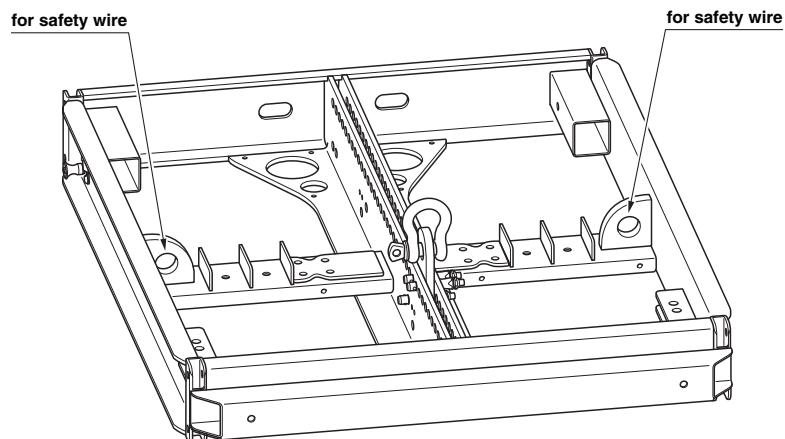


Figure 4.2 - Secondary safety mechanism

The applicable national standards and regulations apply to the secondary safety mechanism. Attach the second, independent safety mechanism to the "for safety wire" points (outlined in red on the VERA RF900). Safety chains can be used for this, for example.

4.3 Use of Load-adapter VERA LA900

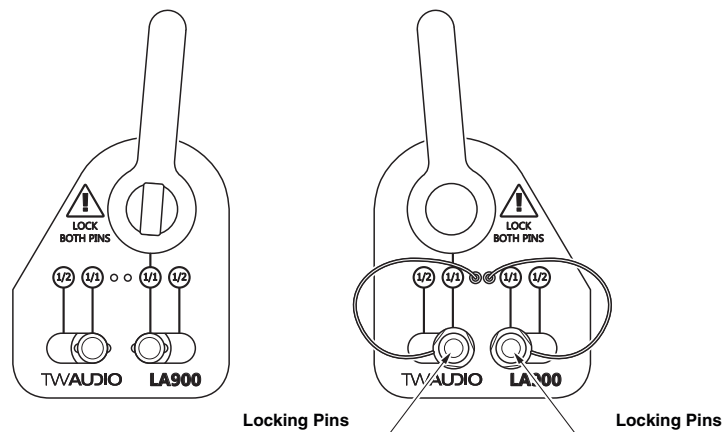


Figure 4.3.1 - Load-adapter VERA LA900



Two locking pins are attached to the VERA LA900 load adapter.

Attach the VERA LA900 load adapter to the VERA RF900 rigging frame with both locking pins.



The EaseFocus software can be used to find the appropriate pin points for your application.

The VERA LA900 load adapter is designed for use in four different ways.

The two integrated oblong holes enable settings in full steps and half steps. The marking on the shackle of the VERA LA900 load adapter indicates the current setting. This can be clearly seen in figures 4.3.2 to 4.3.5.

The following figures show various configurations in an example.

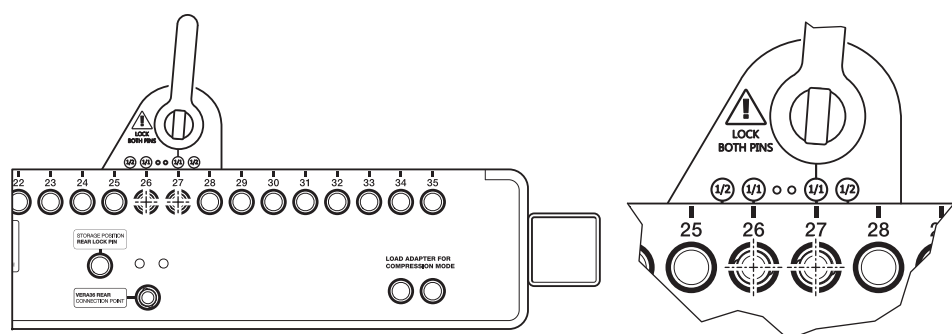


Figure 4.3.2 - VERA LA900 load adapter set to position 27 - facing forward

With the VERA LA900 load adapter facing forward, the plugged-in locking pins in 26 and 27 result in a pin point of 27.

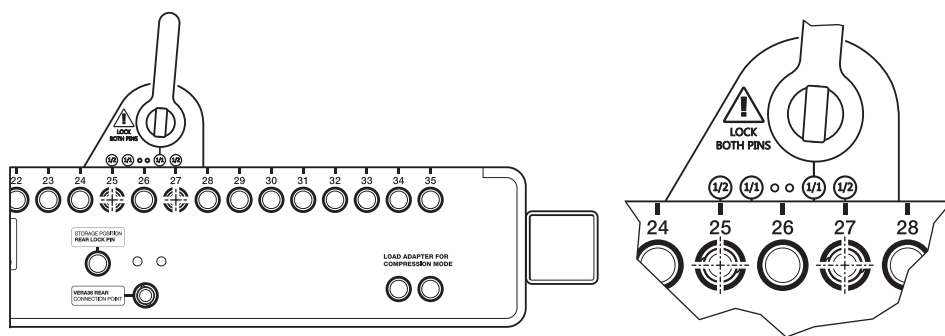


Figure 4.3.3 - VERA LA900 load adapter set to position 26.5 - facing forward

If the locking pin of the VERA LA900 load adapter is moved from 26 to 25, this results in a pin point of 26.5.

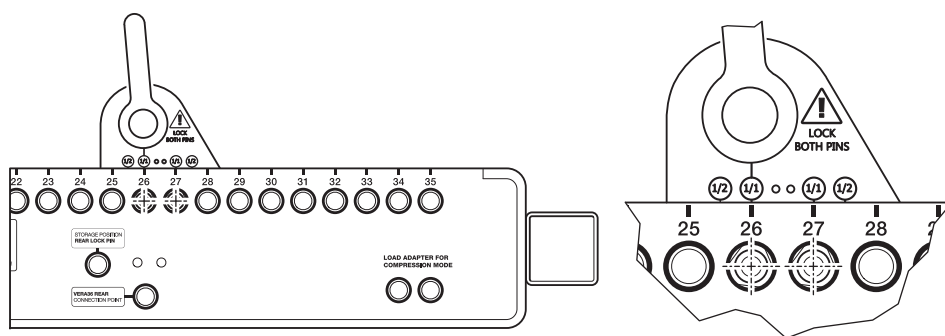


Figure 4.3.4 - VERA LA900 load adapter set to position 26 - facing rearward

With the VERA LA900 load adapter facing rearward, the plugged-in locking pins in 26 and 27 result in a pin point of 26.

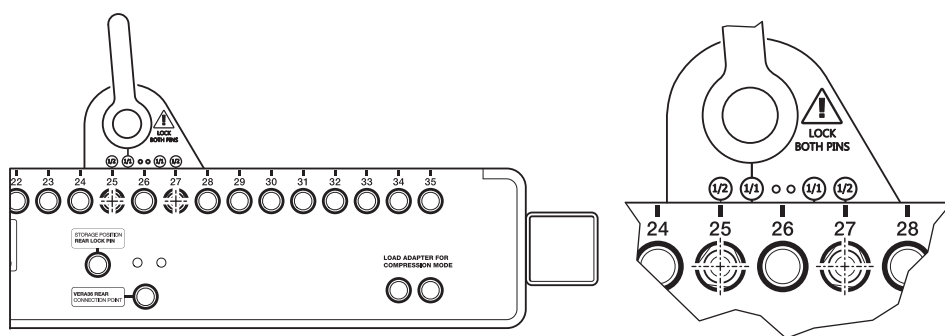


Figure 4.3.5 - VERA LA900 load adapter set to position 25.5 - facing rearward

If the locking pin of the VERA LA900 load adapter is moved from 26 to 25, this results in a pin point of 25.5.

4.4 VERA RF900 rigging frame (FLOWN)



Note that two people are always required to set up the VERA RF900 rigging frame as a flown system.



Attach the VERA36 loudspeaker to the VERA RF900 rigging frame with all three locking pins (see pos. 3, "Figure 2.1 - Overview" on page 3).

One captive locking pin is located at the front left and one at the front right of the VERA RF900 rigging frame. Using these two locking pins, attach the splay links of the VERA36 loudspeaker to the VERA RF900 rigging frame.

Attach the rear rigging of the VERA36 loudspeaker with the third locking pin. Use the "connection point" for this ("Figure 2.2 - Overview" on page 3 (pos. 6)).



Attach the VERA S33 loudspeaker at the front and rear to the VERA RF900 rigging frame using a BLS box link set (accessory, see pos. 2, "Figure 2.2 - Overview" on page 3). Connect all VERA S33 loudspeakers (front and rear) with each other via box link sets. Use all locking pins of the BLS box link set.



When using VERA S33 loudspeakers with VERA36 loudspeakers ("Figure 4.4 - System suggestion for flown loudspeakers" on page 8), mount a second VERA RF900 rigging frame between the VERA S33 and VERA36 loudspeakers. Attach this rigging frame to the lowest VERA S33 loudspeaker at the front and rear using a BLS box link set. Use all locking pins of the BLS box link set.

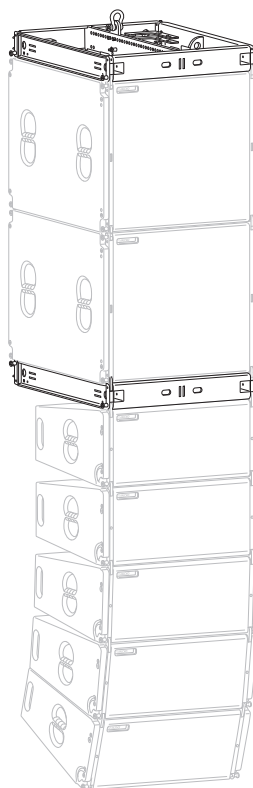


Figure 4.4 - System suggestion for flown loudspeakers

4.5 VERA RF900 rigging frame (GROUNDSTACK)



When using the VERA RF900 rigging frame as a groundstack, structural stability must always be ensured. This must be the case even when the entire system is tilted by 10°.



Note that two people are always required to set up the VERA RF900 rigging frame as a groundstack.



When installing the VERA RF900 rigging frame with VERA36 loudspeakers, mount a VERA GSK36 groundstack kit between the rigging frame and the lowest loudspeaker. Use all locking pins.



Attach the VERA S33 loudspeaker at the front and rear to the VERA RF900 rigging frame using a BLS box link set (accessory, see pos. 2, “Figure 2.2 - Overview” on page 3). Connect all VERA S33 loudspeakers (front and rear) with each other via box link sets. Use all locking pins of the BLS box link set.



When using VERA S33 loudspeakers with VERA36 loudspeakers (see “Figure 4.5 - System suggestion for a groundstack” on page 9), mount a second VERA RF900 rigging frame between the VERA S33 and VERA36 loudspeakers. Attach this rigging frame to the highest VERA S33 loudspeaker at the front and rear using a BLS box link set. Use all locking pins of the BLS box link set.



Figure 4.5 - System suggestion for a groundstack

5. Transport and storage



Because the rigging frame VERA RF900 weighs over 20 kg [44,09 lbs], two people are needed to move and transport the unit.

When transporting and storing the unit, it is important to ensure that the finish of the rigging frame is not damaged. Moisture can penetrate into uncoated steel surfaces (scratches) and cause the metal to corrode.

For this reason, the rigging frame should be transported and stored in a safe, careful, dry and largely dust-free manner.

The following accessory parts for transport and storage are available from TW AUDiO:

- CaseRF900 (Flightcase for two VERA RF900)

The following accessory parts for the rigging frame VERA RF900 are available from TW AUDiO:

- VERA LA900 (Load-adapter with shackle)
- VERA ORF900 (Outrigger)
- VERA GSK36 (Groundstack-Kit)
- BLS (Boxlink-Set)
- VERA LAS900 (Clinometer-Set)

The original packaging is unsuitable as permanent storage and transport packaging.

6. CE Conformity Declaration

Copy and translation of the original CE Conformity Declaration:



We hereby declare that the below-referenced components by virtue of their design and construction, and in the configuration placed on the market by us, satisfy the safety and health requirements of the applicable EC directives. This declaration becomes invalid in case of modifications that have not been approved by us.

This declaration applies to the following components:

- VERA RF900

as well as all model variants based on these, provided that they correspond to the original factory models and have not been technically modified in any way.

Applicable directives:

- 2001/95/EC

Applicable national standards and technical specifications:

- DIN 18800
- DIN 4113
- DIN EN ISO 14121-1
- BGV C1/BGI 810-3

Ludwigsburg, Germany, 01 April 2014

A handwritten signature in black ink, appearing to read 'T. Wüstner', is written over a horizontal line.

Tobias Wüstner

7. Disposal

It is prohibited to dispose of used electrical equipment with household refuse.

If you have any question regarding the disposal of used devices, please contact us under the following telephone number:

+49 (0) 71 41 - 48 89 89 0

In countries outside of the European Union, follow the local regulations.

TWAUDIÖ GmbH
Osterholzallee 140-2
71636 Ludwigsburg

P: + 49 (0) 71 41-48 89 89 0
F: + 49 (0) 71 41-48 89 89 99
E: info@twaudio.de
W: www.twaudio.de