

M14 manual

1x14"/1x3" Coaxial Floor Monitor
Operating Instructions



Thank you for purchasing the Quint Audio M14 loudspeaker.

This manual contains essential information on installing and operating the product correctly and safely. It is necessary to read this manual carefully in order to become familiar with these procedures.

Keep the manual for future use. This manual forms an integral part of the product. Reselling of the product is only possible if the user manual is available. Any changes made to the product must be documented in writing and passed on to the buyer in the event of resale.

As part of a continuous evolution of techniques and standards, Quint Audio BV reserves the right to change the specifications of the product and the content of this manual without prior notice. Please check the Quint Audio BV web site at www.quintaudio.com on a regular basis for any updates.

Should the product require repair or should information about the warranty be needed, please contact an approved Quint Audio BV distributor. The address of the nearest distributor is available on the Quint Audio BV web site.

Unpacking

Carefully open the shipping carton and check the product for any noticeable damage.

Each Quint Audio BV product is tested and inspected before leaving the factory and should arrive in perfect condition. If found to be damaged, notify the shipping company or the distributor immediately.

Only the consignee may initiate a claim with the carrier for damage incurred during shipping. Be sure to save the carton and packing materials for the carrier's inspection.



Safety Warnings in this manual

This refers to potentially dangerous situations or dangerous forces that may lead to personal injury.



This refers to a potentially dangerous situation which may lead to damage to the equipment.



This refers to a situation which may cause the equipment to malfunction.



Read this manual carefully before using the product.

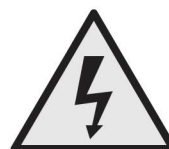
- Read all safety instructions, warnings and instructions concerning this product.
- Make sure you fully understand the safety issues mentioned.
- Read all cautions present on the product itself.
- Read all the related product information before using the system.
- Work with qualified personnel only.
- Rigging, hoisting and flying pro audio equipment is never free of potential hazards. You cannot rule out human error while gravity, wind and electrical forces do their regular job. Therefore: Always use your common sense!

**Personal safety**

Ensure health and safety during installation and setup. In order to prevent accidents when deploying loudspeakers on the ground or when flown, please take note of the following:



- The system may not be used for other purposes than it is meant for.
- All system components must be inspected before use, in order to detect any possible defects.
- Take into account the wind effects on dynamic load. If the wind force exceeds 6 Beaufort scale, lower down and/or secure the loudspeaker.
- Be cautious when flying a loudspeaker. Always verify that no one is standing underneath the loudspeaker array when it is being raised or lowered.
- Do not place the product on an unstable cart, stand, tripod, bracket, or table. The product may fall and be seriously damaged and may cause serious human injury.
- Never stand in the immediate vicinity of loudspeakers driven at a high SPL level. Professional loudspeaker systems are capable of causing a sound pressure level that is harmful to human hearing. Seemingly non-critical sound levels (from approx. 95 dB SPL) can cause hearing damage if people are exposed to it over a long period of time.
- Loudspeakers and amplifiers work with potentially harmful voltages. Avoid any direct contact with the human body. Respect electrical safety warnings at all times.
- Use certified connectors and cables. All cables must be electrically safe (according to NEN1010) and routed so that there is no direct walking on an/or driving over it nor objects are placed on top of them in any way it might damage the cable. Make sure that the cables and connectors are used stress free.



General mounting and rigging instructions

- Respect the Working Load Limit (WLL) of Quint Audio equipment at all times.
- Respect the WLL of third party equipment at all times.
- Quint Audio is not responsible for any rigging equipment and accessories provided by third party manufacturers.
- Installation should only be carried out by qualified personnel who are familiar with and have knowledge of the rigging techniques used and with the safety recommendations stated in this and other eventually related manuals.



Conditions which require immediate service

In all cases, when after an event risk of unsafe operation of the device, such as:

- After the damaged hitting any casing or cable.
- After a fall from the product resulting in visible or invisible damage.
- After mishaps and/or misuse and or possible visible or invisible deformation of any rigging system, rigging part or rigging accessory.
- After noticing a change in the operation of the device.
- After the product has been exposed to rain or moisture.
- After the product has been exposed to foreign objects or liquids.

Magnetic field

Loudspeakers produce a static magnetic field even if they are not connected or are not in use. Therefore make sure when managing and transporting loudspeakers, they are nowhere near equipment and objects which may be impaired or damaged by their external magnetic field. Generally speaking, a distance of 0.5 m (1.5 ft) from magnetic data carriers (floppy disks, audio and video tapes, bank cards, etc.) is sufficient; a distance of more than 1 m (3 ft) may be necessary with computer and video monitors.

Product monitoring, care and maintenance



- Regularly check all load bearing bolts and other metal parts in the mounting devices. Any parts showing any sign of (suspected) defect must immediately be put aside and withdrawn from use to be inspected by qualified service personnel.
- Regularly check the loudspeaker housings and accessories for visible signs of wear and tear, and replace them when necessary.
- Keep the loudspeakers away from heat producing sources such as heaters, stoves, fireworks etc. etc.
- Keep the loudspeakers away from water; prevent the possibility of water and moisture entering it.
- Even if the product is weather-resistant, it should not be exposed to moisture (rain, sea spray, shower, steam) for a long period of time, nor put in direct contact or immersed in water.
- Prevent objects and/or any liquid to enter the device.
- The loudspeaker housings can be cleaned with a damp cloth. Do not use aggressive cleaning agents or solvents as they can damage the protective layers.
- Small damages can be repaired with a water-based paint such as Warnex textured paint. The base layer however is an environmentally friendly polyurea. Damage to this layer can be repaired with polyurea, but this must be done by the manufacturer or a certified Quint Audio service point.
- The user should not carry out any work or maintenance on the system other than those mentioned in the manufacturers instructions. Technical service must be carried out by authorised technical personnel only.

Design

The Quint Audio M14 is a 14"/3" front loaded coaxial 2-way active/passive filtered full-range bass-reflex loudspeaker system.

The M14 is built of birch plywood and equipped with a wear-, tear- and impact-resistant hybrid coating. The M14 features several rigging points that facilitate both horizontal and vertical mounting. It also features ergonomic handles on the sides and front. Specially shaped bass reflex ports on the floor side of the front reduce port noise which results in a cleaner sound image.

The front is finished by a coated steel grille and covered with an acoustically transparent layer.

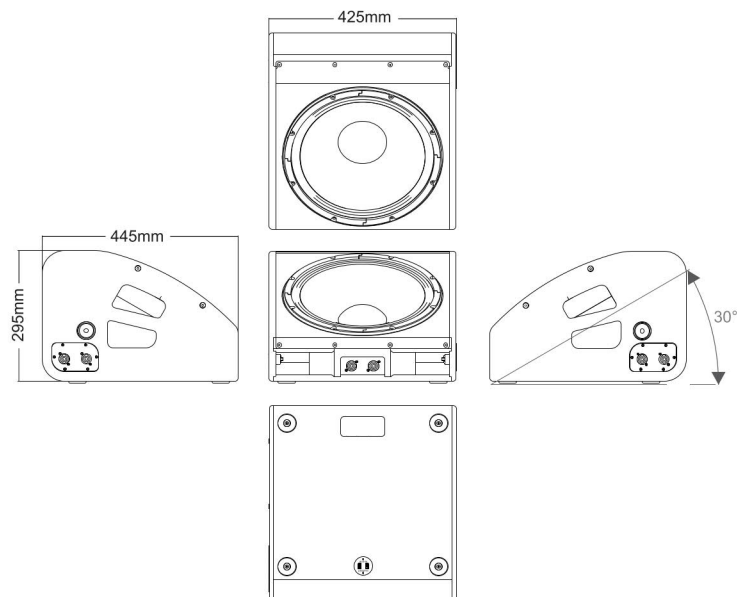
Application

The Quint Audio M14 brings together the best in what modern loudspeaker technology has to offer and what engineers and performers simply want: high gain before feedback, high output, high definition, high intelligibility and linear dispersion. Still for its relatively small size, this very phase coherent 14"/3" (1.4"exit) coaxial stage monitor has a bass foundation that supports the lower end of vocals and music very satisfying as well.

The M14 is easy to handle, light in weight with a moderate footprint and low lookover height. In addition to all this, the monitor is active/passive switchable and it features double SpeakOn4 connectors on both sides and the front.

Placed on the floor the M14 has a shallow angle of 30 degrees which is very suitable for positioning it close to the performer.

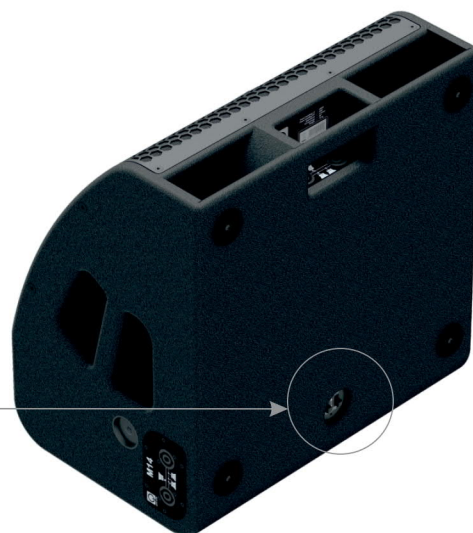
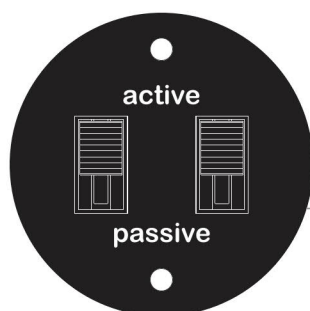
Although the M14 is designed as a compact high performance floor monitor, it is of course also very well useable as a side-fill, downfill or even a small PA-top, whether or not in combination with a subwoofer. As a side fill you can put M14 on it its back. It will then have an angle to the floor of 60 degrees.



MODEL	M14
type	14"/3" coaxial
filter	active/passive switchable
power handling	400W LF / 80W HF
program power	800W LF / 160W HF
impedance	8 Ohms
sensitivity	100dB LF / 105dB HF
program SPL	127dB LF / 134dB HF
frequency range	74-18000Hz
dispersion	80° nominal
weight	15 kg
size (wxhxd)	425x295x445mm

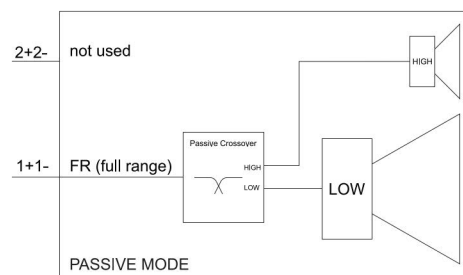
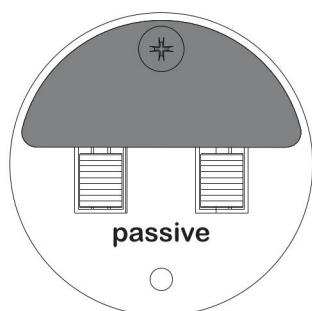
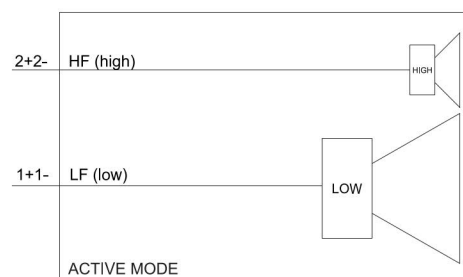
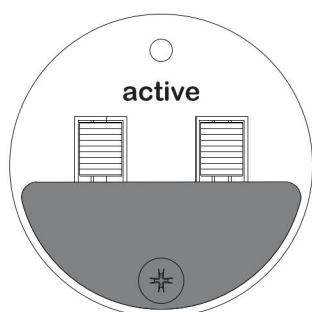
Active / passive mode

The M14 is an active passive switchable loudspeaker. On the bottom of the cabinet you'll find a pair of sliding switches with which you turn the speaker from a bi-amped mode (active) into a passive mode (internal x-over) and v.v. For practical reasons the switch over is done by two components which switch different parts of the circuitry.



In order to prevent faulty switch positions and also fix the switches firmly in place, you will need to screw/unscrew the half round shaped metal plate that holds the switches in the chosen position. Only when the switches are both in passive or both in active mode you can attach the plate again that will keep the switches in place. This way you are always sure that the monitor is well set and stays that way. The switched can not be moved unless the plate is removed again.

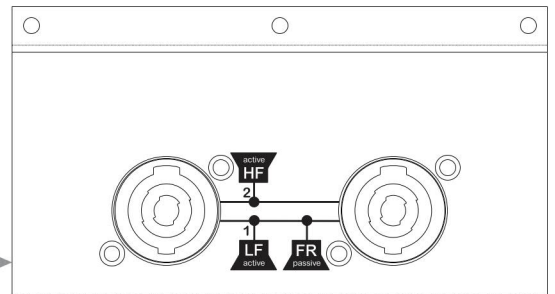
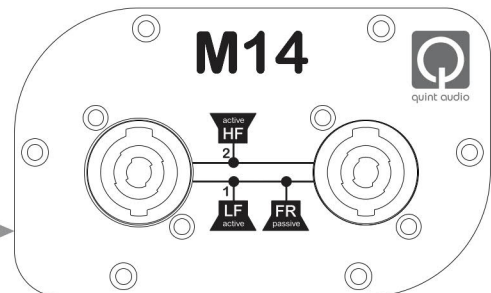
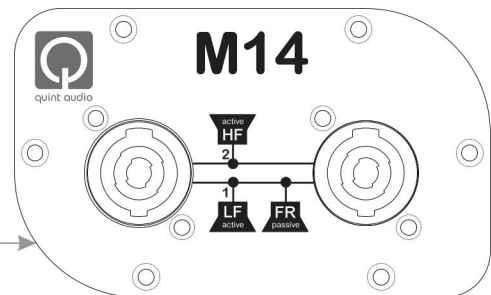
Below on the right there is a schematic representation for the accompanying switch positions (below).



Connectors and internal wiring of the loudspeaker

There is a total of three connectoin panels on the M14, one on each side and one recessed on the front. The panels are each fitted with a pair of Neutrik Speakon NL4 connectors. All pins of both connectors are wired in parallel internally.

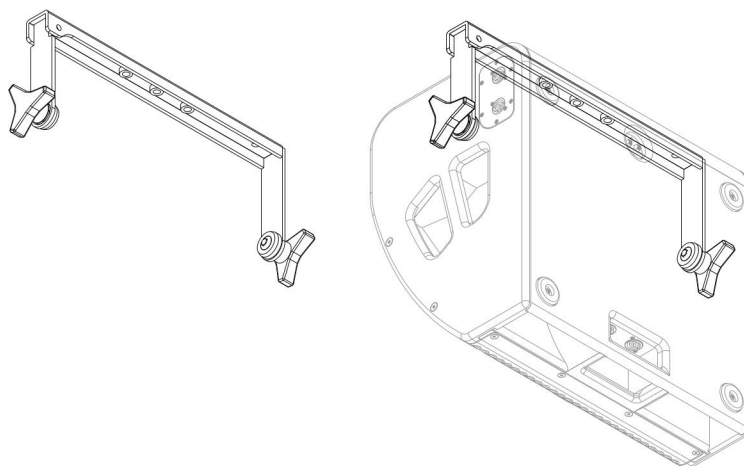
Pin assignments are stated on the each panel (layouts on the right). Pins 1+2+ are used for either full range (FR) passive mode or for low frequency (LF) active mode. In the active mode pins 2+2- are assigned to the high frequency (HF) driver.



Accessories

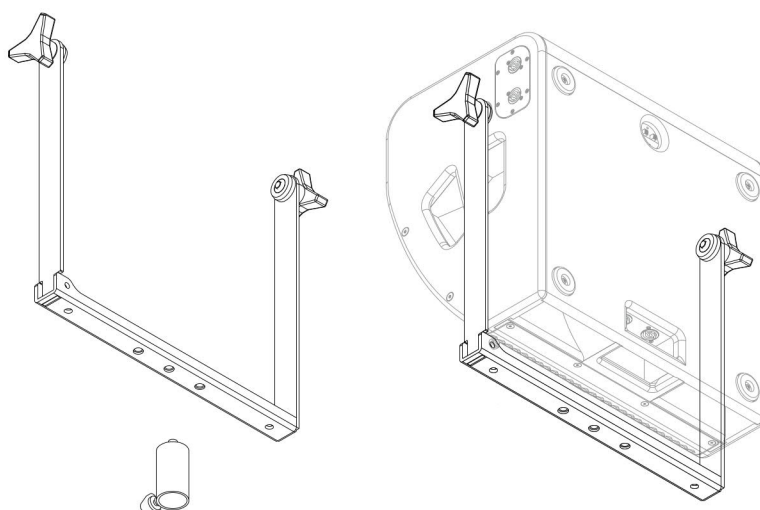
M14-H1

M14 bracket short arm



M14-H2

M14 bracket long arm



SM-1

Universal stand mount 38mm



Warranty

Quint Audio BV warrants the original purchaser and any subsequent owner of each new Quint Audio BV product, for a period of 5 years limited from the date of the original purchase by the original purchaser that the new Quint Audio BV product is free of defects in materials and workmanship. Quint Audio BV warrants the new product regardless of the reason for failure, except as excluded in this warranty. In order to obtain warranty, you must keep the original sales receipt to establish the exact date of purchase.

Warranty does not cover any product which has been damaged because of any misuse, accident, or negligence. Warranty also does not extend to a new Quint Audio BV product if the serial number has been defaced, altered or removed.

Quint Audio BV will replace defective parts and repair malfunctioning products, regardless of the reason for failure (except as excluded). Warranty work can only be performed at our authorized service centres, or at our factory.

Disclaimer

Quint Audio BV is not liable for any damage to loudspeakers, amplifiers, or any other equipment that is caused by negligence, misuse or improper installation.

Quint Audio BV is not liable for any incidental damages resulting from any defect in the new Quint Audio BV product. This includes any damage to another product or products resulting from such a defect.

The information contained in this manual has been carefully checked for accuracy, at the time of going to press, however no guarantee is given with respect to the correctness.

Quint Audio BV bv accepts no responsibility for any errors or inaccuracies that may appear in this manual or the products and software described in it.

Technical specifications, dimensions, weights and properties do not represent guaranteed qualities.

Quint Audio BV reserves the right to change specifications without notice.



years limited warranty

EC declaration of conformity

This declaration applies to the product Quint Audio model M14. All product variants are included, provided they correspond to the original technical version and have not been subject to any later design or electro-mechanical modifications.



We, Quint Audio BV herewith declare that said products are in conformity with the provisions of the following EC directives including all applicable amendments.

States that the following products:

The M14 system is in conformity with the provisions of the following EC directives and applicable amendments:

Machinery 2006/42/EC and the national laws to enforce this directive, National standards and technical specifications applied: DIN EN ISO 12 100, DIN EN 1050, BGV C1 provided the mounting components are unaltered/modified and in "factory-original" condition.

Established at Wintelre, the Netherlands Aug 1th, 2018 A detailed declaration is available on request and can be ordered from Quint Audio BV.

WEEE Declaration (Disposal)

Electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime.

Please dispose of this product according to the respective national regulations or contractual agreements. If there are any further questions concerning the disposal of this product please contact Quint Audio BV.



INDEX

2	Unpacking
3 - 5	Safety instructions
6	Design
6	Applications
7	Active / passive mode
8	Connectors / Internal wiring
9	Rigging accessories
10	Warranty
11	CE
11	Disposal
12	Index

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