

## User's Manual



**Important Information,  
Please Read before Use!**

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**Chapter**

**Safety instructions for speakers and assembly equipment found in safety manual supplied with equipment!**

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**Symbols in user's manual**

The following symbols in this manual are used to assist the user with the installation and assembly instructions. They are also used to draw attention to the various safety warnings:



**This warning symbol indicates possible dangerous situations resulting from improper assembly or use.**



**Information about the application, assembly and operation of the described products and features.**



**This symbol indicates important technical specifications and safety instructions as well as handling and safety regulations.**

**Information about this user's manual**

User's Manual CA 106 Cluster Plate, Version 1.0 06/2001

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All specifications in this manual are based on information available at the time of publishing for the features and safety guidelines of the described products.

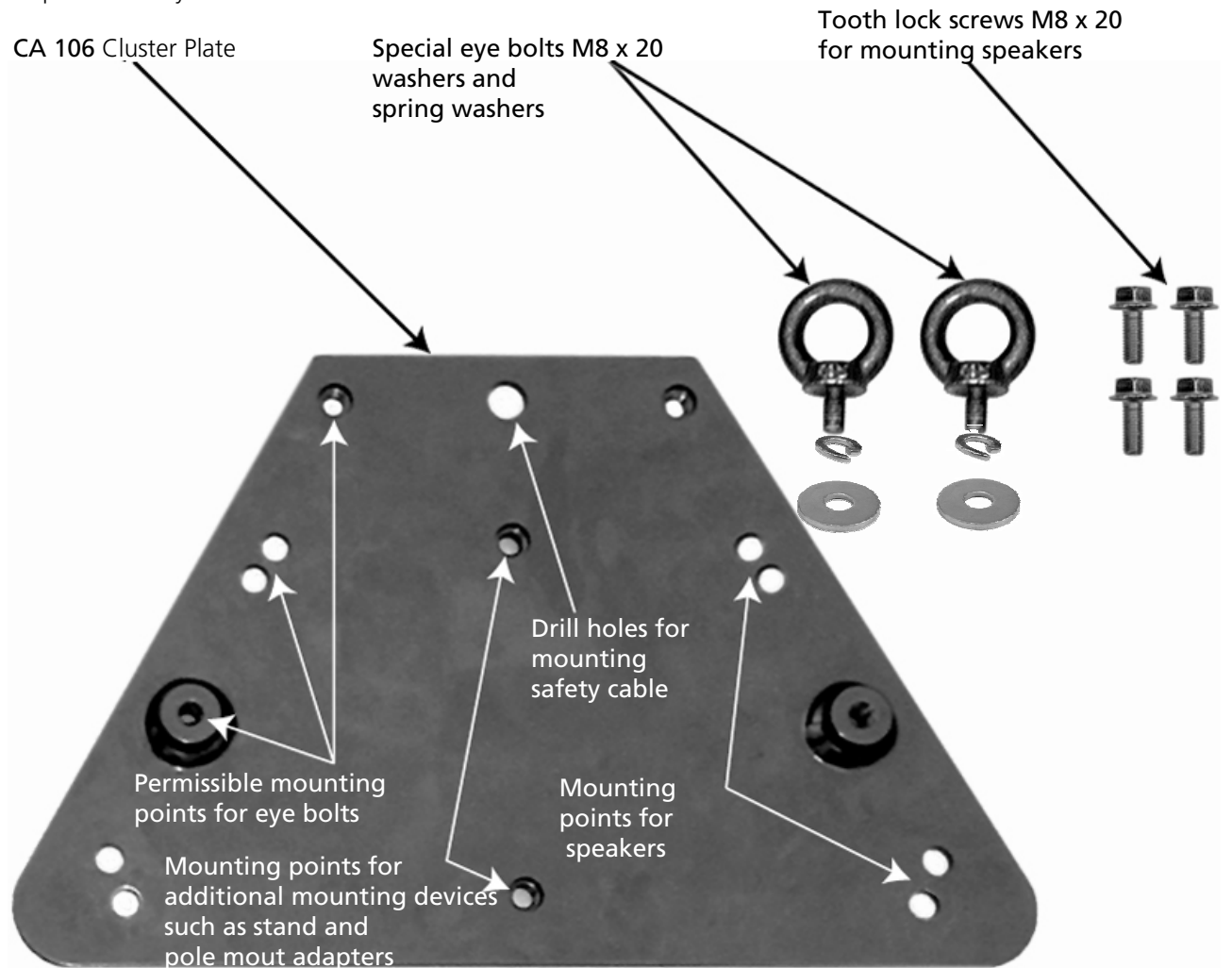
Technical specifications, measurements, weights and properties are not guaranteed.

The manufacturer reserves the right to make product alterations within legal provisions as well as changes to improve product quality.

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**1. Scope of delivery and definition of the various threads and drill holes**

The CA 106 Cluster Plate is not assembled upon delivery. The following individual parts are included in the scope of delivery.



**2. Additional mounting devices for the CA 106 Cluster Plate**

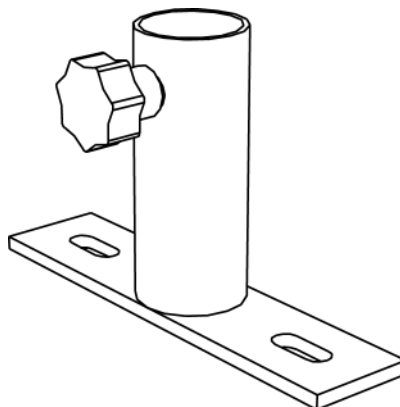


Compatible stand and pole mount adapters are available for the CA 106 Cluster Plate.

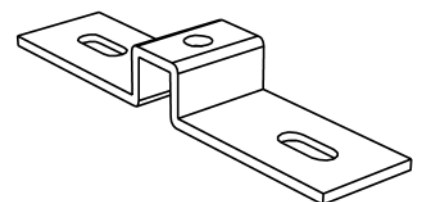
Furthermore, the K&F hand wheel M8 x 20 may also be used for mobile use. These hand wheels can, however, only be used in conjunction with the supplied Ø 8,4mm washer with large outer diameter and an M8 spring washer!



Hand wheel M8 x 20



K&F stand adapter



K&F pole mount adapter

#

### 3. Assembly

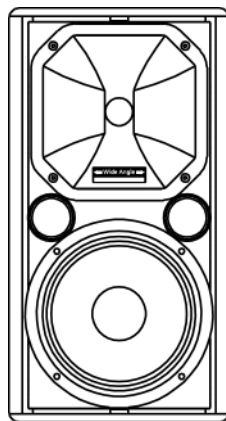
The CA 106 Cluster Plate enables the user to mount the CA 106 next to each other in an optimally determined angle based on measurements and acoustics. Because the CA 106 is equipped with a rotating horn which enables the speakers' coverage to be adjusted as necessary, the Cluster Plate offers two different horizontal array possibilities. The positions of the appropriate mounting drill holes are illustrated below.

The supplied self-locking screws should be screwed through the appropriate mounting drill holes on the Cluster Plate into both threads on the top or bottom of the CA 106. The bolts should be screwed in tightly. If the mounted speaker is to have a tilt angle of 15°, then the supplied special eye bolts M8 x 20 should be screwed into the back thread of the plate (see also following page).

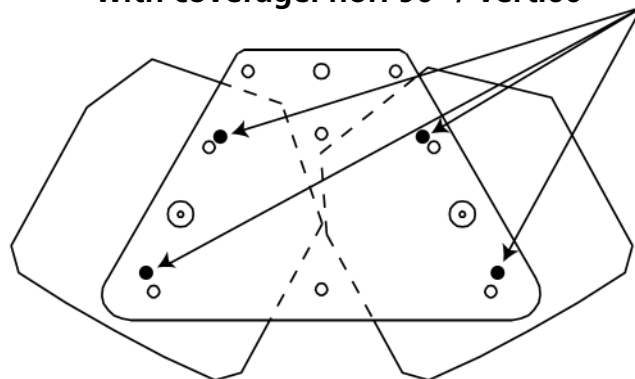


**Only use the supplied special eye bolts M8 x 20. When used in conjunction with the safety equipment (spring washers and washers), the thread on other commercial eye bolts is too short to ensure safe assembly!**

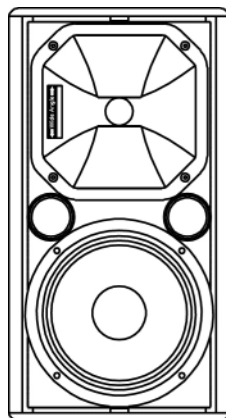
**The CA 106 Cluster Plate should always be flown by using at least two eye bolts. When securing the eye bolts, always use additional washers and spring washers to prevent the bolts from loosening.**



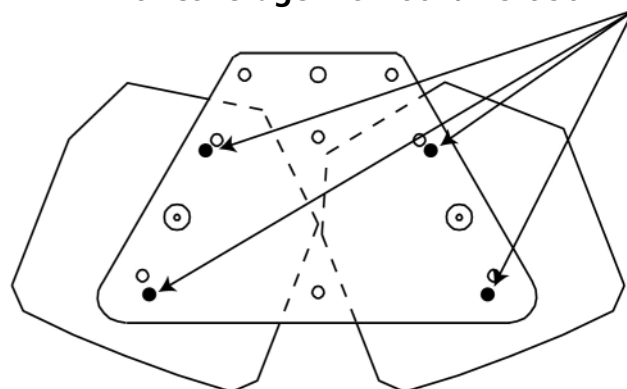
**Mounting drill holes for horn position with coverage: hor. 90° / vert.60°**



**Hor. total coverage: 150°**



**Mounting drill holes for horn position with coverage: hor. 60° / vert.90°**

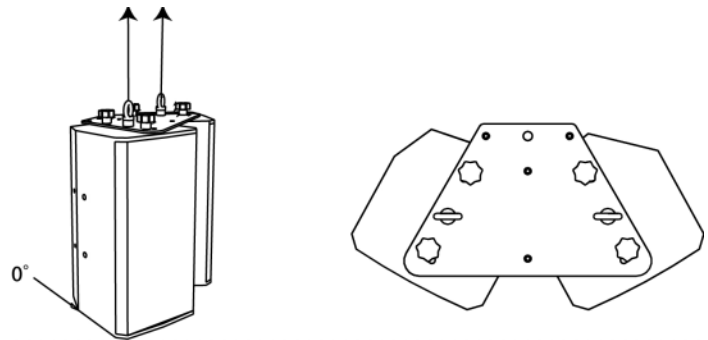


**Hor. total coverage: 100°**

## 4. Operation

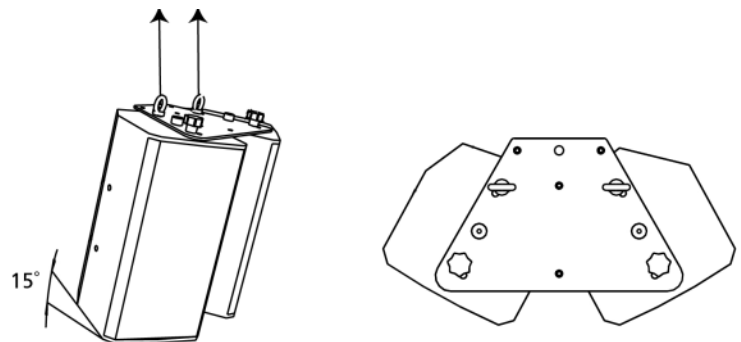
### 4.1 Mounting with various tilt angles

Hanging the assembled speakers without vertical tilt:

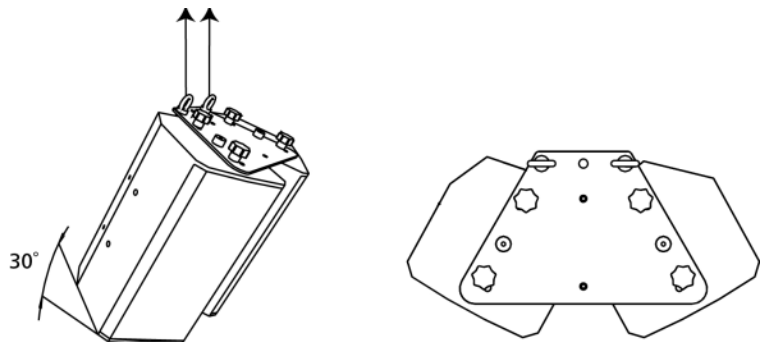


Hanging the assembled speakers with vertical tilt of 15°:

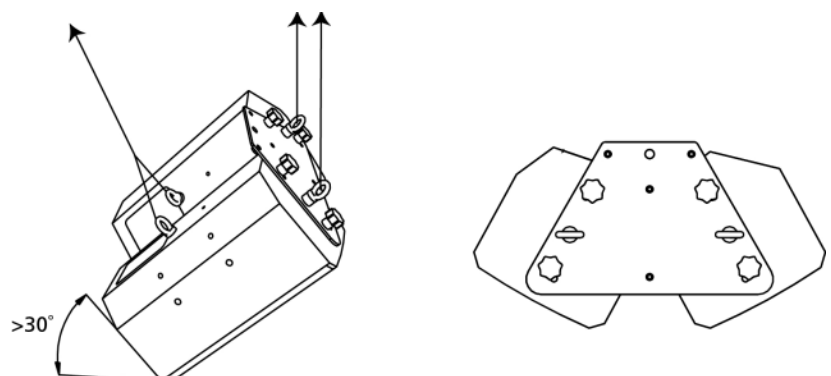
**Always use additional washers and spring washers when securing eye bolts.**



Hanging the assembled speakers with vertical tilt of 30°:



Hanging the assembled speakers with vertical tilt of >30°:



**4.2 Use of mounting devices**



The CA 106 Cluster Plate can be equipped with mounting devices such as a pole mount adapters to hang speakers from a pole mount or with a stand adapter for mounting on a stand. Pole mount adapter and stand adapter should be screwed onto the threads on the axis using self-locking screws or a hand wheel M8 x 20, respectively, with spring washer and washer.

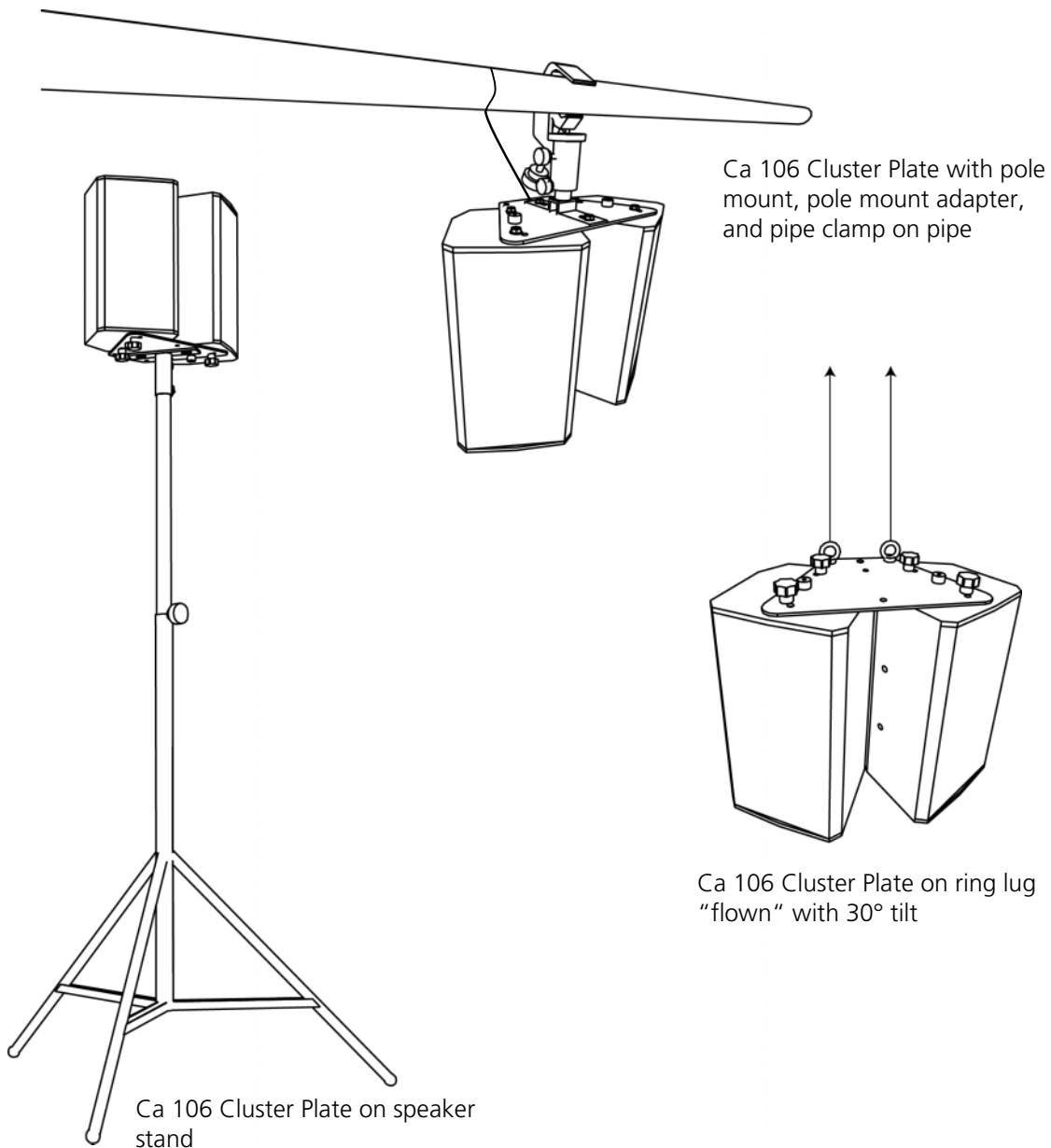
When using a pole mount, place the threaded bolt of the pole mount through the drill hole in the middle of the pole mount adapter. Screw the pole mount tightly using a self-locking screw nut M10.

Consult the safety instructions of the mounting equipment and material for indications for proper use and load capacity!

The structure must be additionally secured with a **safety cable connected to an external point to prevent falling down!**

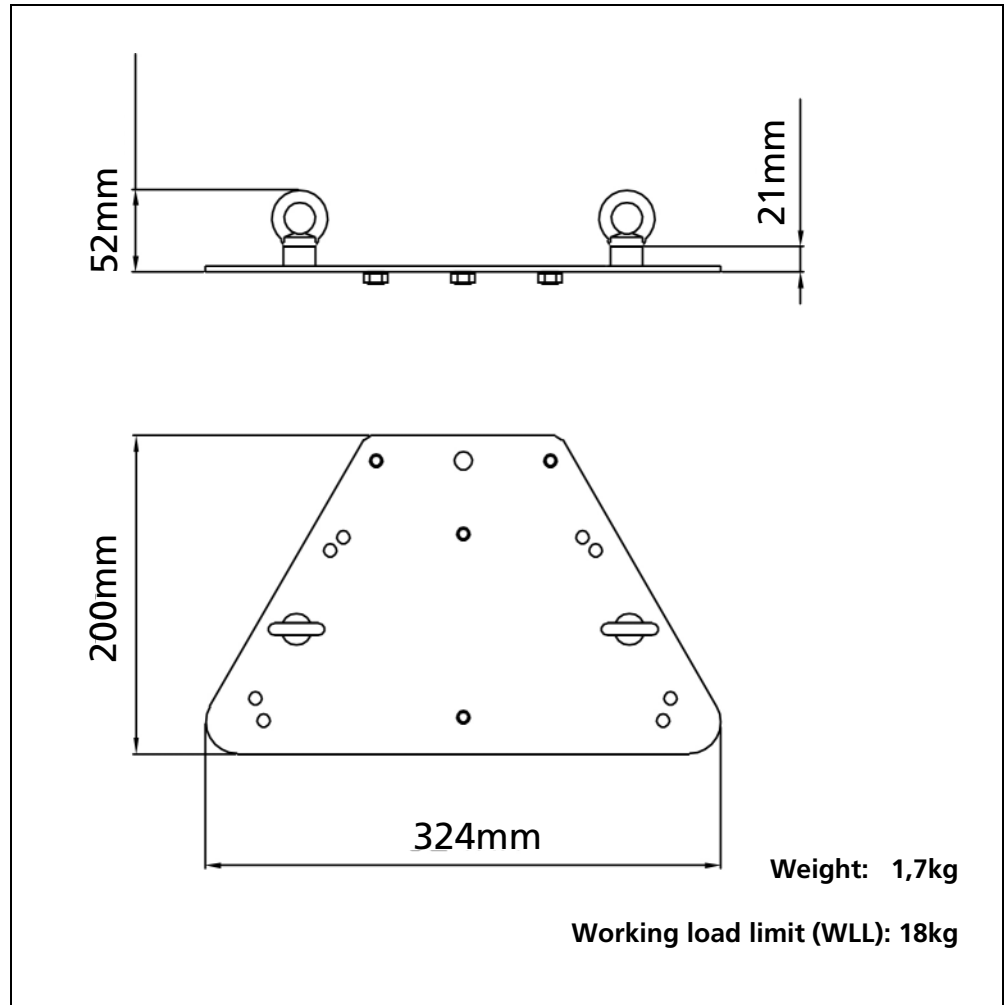
**Secure all screwed connections on the tilt brackets and ring lugs to prevent loosening by using, i.e., self-locking nuts, tooth lock washer, spring washer, etc.**

**5. Examples of use**



## 6. Basic measurements, weight and working load limit

CA 106 Cluster Plate



The CA 106 Cluster Plate is designed having sufficient size and strength to fulfill the requirements of use in the described applications. The CA 106 Cluster Plate may only be used for applications indicated and in the manner described in this manual. The non-observance of these specifications may cause the mechanical load capacity of the CA 106 Cluster Plate or of the speaker enclosure to be exceeded. Only the supplied equipment should be used for assembly. The use of other equipment – especially equipment from other manufacturers – is not authorized.

The CA 106 Cluster Plate is designed to mount two speakers! The admissible load capacity of the mounting devices should never be exceeded.

Only use official equipment from Kling&Freitag.

The CA 106 Cluster Plate should not, under any circumstances, be used to hang up any other objects or in conjunction with speaker systems other than those described here!