



RACK MOUNT KIT

INSTALLATION MANUAL

FOR USE WITH
POWER METER DISPLAY, 442 I A

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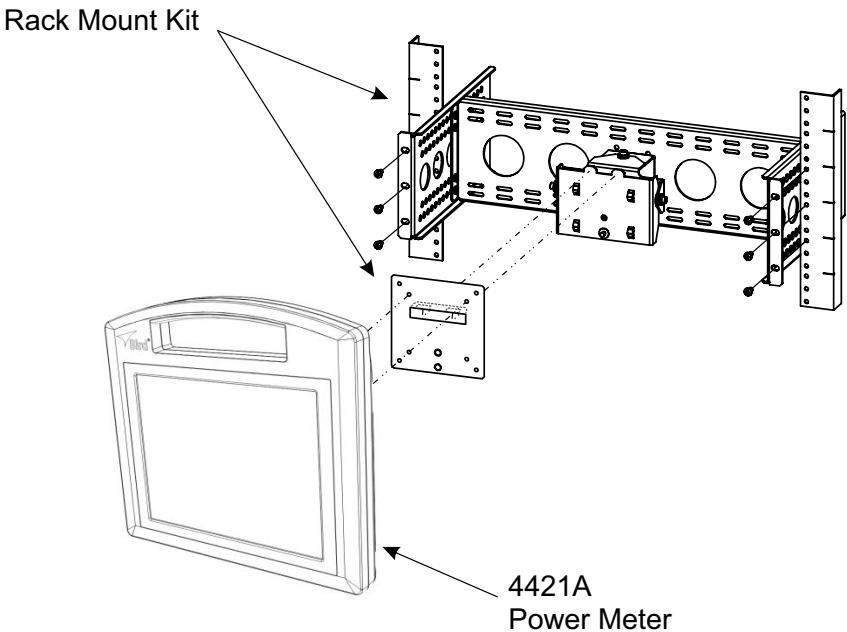
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The Bird 4421A Rack Mounting Kit lets you mount the 4421A into any EIA standard 19" rack. The pan/tilt feature allows four direction movement of the 4421A, making it easy to find the perfect viewing angle.

The 4421A can be mounted anywhere from 1/2" up to 9-1/2" depth in a rack in increments of 1/4".

All Rack Mount assembly hardware and rack mounting hardware is included.

Figure 1 *Rack Mount Kit*



After the Rack Mounting kit is installed in a rack, the 4421A can be removed and reinstalled without the use of any tools.

This chapter provides unpacking, inspection, and assembly instructions.

Unpacking and Inspection

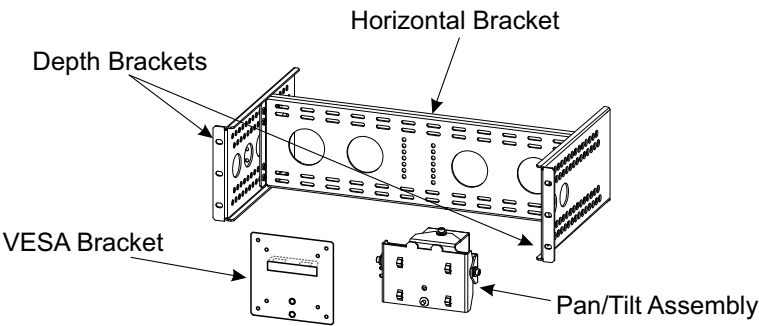
- 1. Carefully inspect shipping container for signs of damage.
- 2. Do one of the following:
 - If the shipping container is damaged, do not unpack the unit. Immediately notify the shipping carrier and Bird Electronic Corporation.
 - If the shipping container is not damaged, unpack the unit. Save shipping materials for repackaging.
- 3. Inspect unit for visual signs of damage.

Note: *If there is damage, immediately notify the shipping carrier and Bird.*

Rack Mount Kit Contents

The Rack mount kit includes the brackets and sub-assembly shown in [Figure 2](#) and attaching hardware listed below.

Figure 2 Rack Kit Contents



Attaching Hardware	Quantity	Description
VESA Bracket Hardware	3	#4 flat washers
	3	8mm Torx Screws
Assembly Hardware	2	10-32 Pan Head Screws
	4	10-32 Flat Head Screws

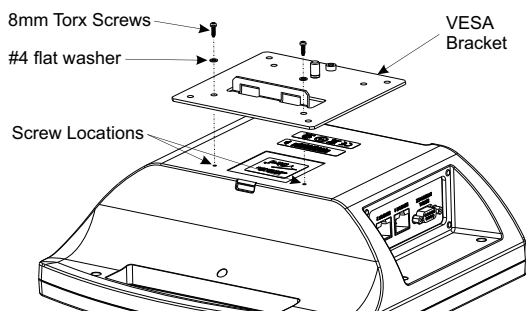
Rack Mount Hardware	8	12-24 Square Nuts
	8	12-24 Cage Nuts (Black)
	8	12-24 Pan Head Screws
	8	10-32 Pan Head Screws

Assembly Instructions

Attach VESA Bracket to the 4421A

1. Lay the 4421A face down on a flat work surface.
2. Position the VESA bracket on the rear panel of the 4421A enclosure. See [Figure 3](#).

Figure 3 Attach VESA Bracket



3. Insert the screws into the washers, then drive screws into the indented holes on the rear of the 4421A. The screw will break through a thin plastic barrier.

CAUTION

Do not over tighten the screws. Over tightening will strip the plastic and the screw will not hold the 4421A to the VESA bracket.

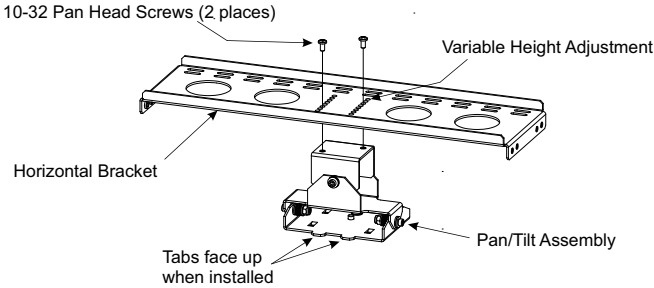
4. Lightly hand tighten until snug.

Rack Kit Assembly

Pan/Tilt Assembly Attachment

1. Lay the Pan/Tilt Assembly face down on a flat work surface, see [Figure 4](#).

Figure 4 Pan/Tilt Assembly Attachment



2. Position the Horizontal Bracket over the Pan/Tilt Assembly.

Note: Multiple holes in the Horizontal Bracket allow for the vertical adjustment of the 4421A position when installed in the rack.

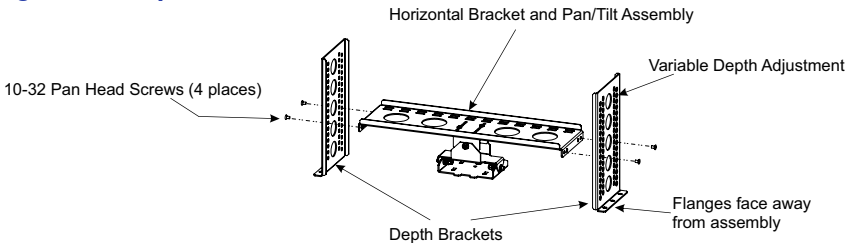
3. Align holes in the Horizontal Bracket, at the desired vertical height, with the threaded holes in the Pan/Tilt Assembly.
4. Install two 10-32 Pan Head Screws.

Depth Bracket Attachment

Note: The holes in the Depth Brackets determine how far into the rack the 4421A will be when mounted to the Rack Mount Assembly.

1. Secure one of the Depth Brackets to the Horizontal Bracket using two 10-32 Flat Head Screws.
 2. Secure remaining Depth Bracket to the Horizontal Bracket using two 10-32 Flat Head Screws.
- Ensure same depth measurement is used for both Depth Brackets.

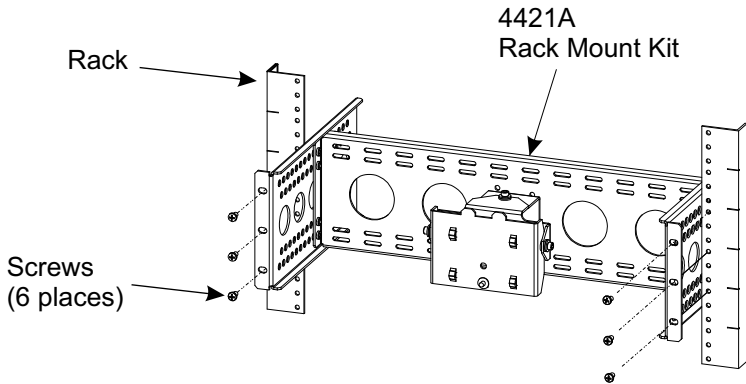
Figure 5 Depth Bracket Attachment



Rack Installation

Attach the Assembly to the Rack using six (6) of the appropriate Rack Mounting Hardware.

Figure 6 Rack Installation



The Rack Hardware Kit provides various screws and nuts for the four most common types of racks.

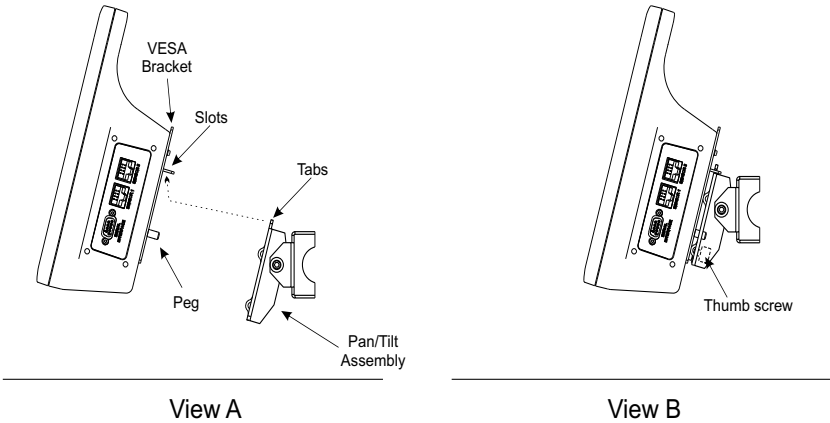
- Square Hole Racks: Install Cage Nuts in appropriate positions. Attach with the larger 12-24 Screws.
- Round Hole Racks (non-threaded): Attach with the larger 12-24 Screws and the square nuts.
- 12-24 Threaded Racks: Attach with the larger 12-24 Screws.
- 10-32 Threaded Racks: Attach with the smaller 10-32 Screws.

Attach 4421A to Rack Mount

The VESA bracket attached to the 4421A allows the unit to easily connect and disconnect with the rack mount.

1. Position the slots on the 4421A VESA Mount over the tabs on the top of the Pan/Tilt Assembly.

Figure 7 Attach 4421A to Rack Mount



2. Insert the peg on the VESA Mount into the hole on the Pan/Tilt Assembly.
3. Tighten the Thumb Screw on the back of the Pan/Tilt Assembly to secure the 4421A to the Rack Mount Assembly.

Customer Service

If the unit needs to be returned for any reason, request an Return Material Authorization (RMA) through the Bird Technologies website. All instruments returned must be shipped prepaid and to the attention of the RMA number.

Bird Service Center

30303 Aurora Road
Cleveland (Solon), Ohio 44139-2794
Fax: (440) 248-5426
E-mail: bsc@birdrf.com

For the location of the Sales Office nearest you, visit our Web site at:

<http://www.birdrf.com>