BT893
HEAVY DUTY PROJECTOR CEILING MOUNT
WITH MICRO-ADJUSTMENT

INSTALLATION GUIDE

SPECIFICATIONS

• Ceiling mount designed for heavy duty projectors up to 70kg (154lbs)
• Can be mounted to the ceiling directly or to any B-Tech Ø50mm (2") pole
• Full range of adjustments:
  Tilt (pitch): +20°/-10° incremented adjustment
  (additional +/-5° with micro-adjustment)
  Roll: +/-5° micro-adjustment
  Yaw: 25° (ceiling mounted) / 45° (pole mounted)
• Maximum distance (between fixings): 873mm (34.37")
• Ceiling drop: 153mm* (6.02") (+/-10mm with micro-adjustment)
  *173mm (6.81") if extension legs are used
• Micro-adjustment thumbwheels at 4-points for a controlled and precise adjustment of the projector

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INSTALLATION SAFETY INSTRUCTIONS

CAUTION: This mount is intended for use only with the maximum weights indicated. Use with equipment heavier than the maximum indicated may result in instability causing possible injury.

Do not attempt to install this product until all instructions and warnings have been read and properly understood. Please keep these instructions for future reference.

Please check carefully to make sure there are no missing or defective parts - defective parts must never be used.

B-Tech AV Mounts, its distributors and dealers are not liable or responsible for damage or injury caused by improper installation, improper use or failure to observe these safety instructions. In such cases, all guarantees will expire.

General

B-Tech AV Mounts recommends that a professional AV installer or other suitably qualified person install this product. Great care must always be taken during installation as most AV equipment is of a fragile nature, possibly heavy and easily damaged if dropped.

If you do not fully understand the instructions or are not sure how to install this product safely, then please consult a professional for advice and/or to install this product for you. Failure to mount this product correctly may cause serious injury or death, both during installation and at any time thereafter.

Do not mount any AV equipment that exceeds the specific weight limit of the product you are installing. This weight limit will be clearly stated on each product and its packaging and will vary from product to product.

Product location

Please pay careful attention to where this product is located. Check load capacity of the ceiling prior to installation as some surfaces are not suitable for installation. Designed for indoor use, this mount is suitable for public or home installation.

If located in a public or frequently populated area ensure that the product is out of the immediate reach of people.

If any AV equipment is to be suspended over the likely path or location of people then great care should be taken to secure all parts of the installation from falling.

When drilling holes it is essential to avoid contact with electrical cables and water or gas pipes contained within.

Use of a good quality live wire detector and hidden object locator is therefore recommended.

Only drill into structures when you are sure it is safe to do so.

Fixing hardware

It is highly recommended that all fixing screws be used where supplied and that the purpose of all other fixing hardware is fully understood. In some cases more AV equipment fixing hardware will be supplied to accommodate different models of equipment and set up configurations. The installer must be satisfied that any supplied fixing hardware is suitable for each specific installation. The fixing kit supplied with the product may not be suitable for all ceilings.

If any fixing screws or included hardware are deemed not sufficient for a safe installation then please consult a professional or your local hardware store.

Hazard limitation

When routing cables take advantage of any built in cable management features that the product might provide and ensure that all cables are tidy and secure. Check to see that any moving aspect of the product can do so unhindered by any cabling. Some products have moving parts and the potential to cause injury through the crushing or trapping of fingers or other body parts. Particular attention to the nature of moving parts is required especially when assembling installing and adjusting during set up. Immediately after installation double-check that the work done is safe and secure. Double-check all necessary fixings are present and are of ample tightness.

It is recommended that periodic inspections of the product and its fixing points are made as frequently as possible (no more than 6 months apart) to ensure that safety is maintained.

If in doubt consult a professional AV installer or other suitably qualified person.
B-Tech AV Mounts recommends that a installer of audio and video systems or any other product be qualified for the installation of this product. B-Tech AV Mounts, its distributors and dealers are responsible for the installation and use of this product and must follow the guidelines provided in this manual. Failure to do so may result in damage to the product or injury to the installer or user. B-Tech AV Mounts is not responsible for any damage or injury that may occur as a result of improper installation or use of this product.
**ITEM** | **PART NAME** | **QTY**
--- | --- | ---
1 | PROJECTOR MOUNT | 1
2 | CEILING MOUNT | 1
3 | POLE MOUNT | 1
4 | LONG LEG | 4
5 | SHORT LEG | 4
6 | M8 x 12mm SCREW | 16
7 | M8 WASHER | 4
8 | M8 x 60mm SCREW | 1
9 | SQUARE NUT | 12
10 | 4mm HEX KEY | 1
11 | 5mm HEX KEY | 1
12 | 6mm HEX KEY | 1
13 | 8mm HEX KEY | 1

**INTERFACE KIT**

A | M6 x 16mm SCREW | 6
B | M6 x 30mm SCREW | 6
C | M8 x 16mm SCREW | 6
D | M8 x 30mm SCREW | 6
E | M10 x 16mm SCREW | 6
F | M10 x 30mm SCREW | 6
G | M12 x 16mm SCREW | 6
H | M12 x 30mm SCREW | 6
I | M6 WASHER | 6
J | M8 WASHER | 6
K | M10 WASHER | 6
L | M12 WASHER | 6
M | M12 x 5mm SPACER | 6
N | M12 x 10mm SPACER | 6
O | M12 x 20mm SPACER | 6

**INSTALLATION TOOLS REQUIRED**

Drill  | Pencil

Note: Ceiling fixings not supplied

Suitable for loads up to 70kg (154lbs)
1. **FIX CEILING MOUNT IN PLACE**  
   A. **DIRECTLY TO CEILING**  
      Fix item 2 directly to the ceiling using suitable fixings (*not supplied*).  

**TOP VIEW**  
Holes should be drilled into the ceiling at these positions to allow for 25° yaw adjustment.

**BOTTOM VIEW**  
Ceiling mount slots allow for adjustment as shown.

Optional depending on type of ceiling  

Ceiling fixings *not supplied*  

25° Yaw Adjustment
B. USING A POLE MOUNT.

i. Fix item 2 to item 3 using items 6 & 7.

To use yaw adjustment on the pole mount, loosen 4 x item 6 by 1 turn. Ensure screws are tightened fully after adjustment has been made.

WARNING!
Do not completely unscrew item 6. Mounting hardware is to be loosened only enough to allow for necessary movement.

45° Yaw Adjustment

ii. Insert a BT7850 Ø50mm pole (sold separately) into item 3 and secure in place with item 8.

iii. Tighten grub screws using item 10.

WARNING!
Ensure item 8 is in place before any AV equipment is fitted.

NOTE: Item 8 can be replaced with item 6 to prevent cables being obstructed.

BT7850 POLE (sold separately)

WARNING!
Ensure item 6 is in place before any AV equipment is fitted.
2. **FIX CEILING MOUNT IN PLACE**

A. WITHOUT LEGS (up to 200 x 200mm fixing centres).
   i. Attach item 1 directly to the projector using items A - D & I - J with items 10 - 13.
   ii. Fix mount by using suitable holes and / or slots on the bottom of the projector mount.

**Note:** The tilt adjustment feature can be used to help access fixing holes. Remove the M8 x 12mm screw as shown and pull the plunger to change tilt adjustment.
B. USING LEGS

i. Attach items 4 & 5 to item 1 using items 6 & 9.
ii. Fix items 4 & 5 to the projector using items A - O.

**Note:** Where possible, use all fixing holes on projector (4 minimum).

**Note:** Where possible, use 2 x item 6 and 2 x item 9 for each leg.

Arrow indicates front of mount

Spacers (items M, N, O) are to be used where fixing holes on the projector are uneven.

Projector Mount attached to projector using 4 long legs and 2 short legs.

**INTERFACE SCREWS**

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K
- L
3. **HOOK PROJECTOR MOUNT ONTO CEILING MOUNT**
   i. Use the 4x M8 x 12mm screws to hook *item 1* onto *item 2*.
   ii. Once hooked on, fully tighten all 4 screws.

   ![Diagram of hooking projector mount onto ceiling mount]

   **M8 x 12mm SCREW**
   *(Important: Do not remove these screws).*

   **IMPORTANT**
   All 4 M8 x 12mm screws must be fully tightened once hooked on.

4. **SET ADJUSTMENTS**
   A. **Set main tilt angle adjustment** (-10° / +20°).
      i. Remove the M8 screw on the side of *item 1*.
      ii. Hold the projector steady, pull the plunger out to disengage and change the tilt angle.
      iii. When desired tilt is reached, ensure plunger is fully engaged and re-insert the M8 screw.

      **Note:** An +/-5° additional tilt is available when the micro-adjustment is used.

   ![Diagram of adjusting tilt angle]

   **M8 SCREW**
   **PLUNGER**

   **WARNING!**
   Plunger must be re-engaged and the M8 screw must be inserted after tilt is set.

   **Note:** Main tilt angle guidelines are located on the side of the projector mount.
B. Micro-adjust the projector tilt / roll angle (+/-5° tilt / +/-5° roll).

Turn handwheels clockwise to raise, or anti-clockwise to lower projector.

Arrow indicates front of mount

HANDWHEEL

PROJECTOR

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i. Micro-adjust the tilt using either the front 2, or back 2 handwheels simultaneously (+/-5° tilt).

Note:
Micro-adjustment tilt / roll guidelines are located on the sides of the projector mount.

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ii. Micro-adjust the roll using either the left 2, or right 2 handwheels simultaneously (+/-5° roll).

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WARNING!

B-Tech recommends that you do not use yaw adjustment when the projector is mounted. This should be done before the projector is attached.
1. FIX CEILING MOUNT IN PLACE

A. Directly to wall
   Fix item 2 directly to the wall* using the same process as ceiling mounting.
   *Wall fixings not supplied.

B. To a BT7850 Ø50mm pole
   i. Fix 2 x BT7052 collars (sold separately) to item 2 using the fixings included with the collars.
   ii. Insert a BT7850 Ø50mm pole (sold separately) into the collars and secure in place using fixings included with the collars.
   iii. Attach coverplates to the collars.
2. ATTACH PROJECTOR MOUNT TO PROJECTOR
Attach projector mount to projector using the same process as standard orientation.

3. HOOK PROJECTOR MOUNT ONTO CEILING MOUNT
i. Hook the 4x M8 × 12mm screws (attached to the projector mount) into the 4 hook-in slots on item 2.
ii. Fully tighten all 4 screws once hooked in.

   ![M8 x 12mm SCREW](image)

WARNING!
All 4 M8 x 12mm screws must not be removed.

IMPORTANT
All 4 M8 x 12mm screws must be fully tightened once hooked on.

Note: Projector can be mounted vertically as shown.

4. SET ADJUSTMENTS
Set adjustments using the same process as standard orientation.