

UK Home Cinemas, heavy duty – Ultra low profile projector mount - for Sony or Epson home cinema projectors.

Introduction: This product has been created to enable large home cinema projectors with a lens shift feature to be installed horizontally as close as possible to a ceiling, whilst also providing the possibility to make fine adjustments to horizontal levelling.

The mount comprises two steel plates, one of them is designed to be fixed to the ceiling and the other to the projector. The two plates then fit nicely together and can be secured to each other using the supplied machine screws.

Two further screws are included, which can be used during installation to make slight adjustments to the horizontal tilt (in any direction). The purpose of this is to correct for ceilings which are not perfectly horizontal, (as many are not). The adjustments should be made to get the projector horizontal and the image therefore level in relation to the top edge of the screen.

Once the projector is horizontal, the projector's lens shift settings should be used to achieve the desired positioning of the projected image.

Installation: Figure 1 - Bottom of a Sony VPL-VW550



Figure 2 - Bottom of an Epson EH-LS10500



Figure 3 M5 X 16mm screws & spacers for Sony projectors.



Figure 4 M4 X 12mm Screws for Epson EH-LS projectors



Please note that the three threaded rods on the projector plate, do not require nuts, they simply function as pins which locate with the matching holes in the ceiling plate.

First invert the projector and position it on a soft, but supportive surface. For a Sony projector Place the 3 spacers (provided) directly over the projector's 3 threaded mounting points.

Figure 5



Figure 6



For Epson projectors no spacers are required.

In the case of the Epson projectors, you have the choice to orient the projector plate either as shown below in figure 7, or reversed as shown below in figure 8.

You should decide according to whether you would like the M5 Machine screws which secure the plates together, to be located at the front of the projector or at the rear. As a rule of thumb, if the projector is to be positioned with it's rear close to a wall, it is usually more convenient to position the projector plate as shown in figure 7.



Figure 7



Figure 8

When using with Sony projectors it is only possible to position the projector plate as shown in figure 9 below.



Figure 9

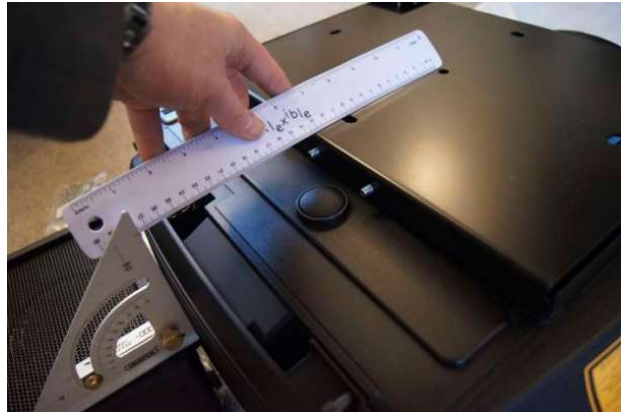


Figure 10

Fit the screws, three M5 X 16mm for Sony projectors, or four M4 X 12mm for Epson laser projectors. Be sure not to over or under tighten the screws. Next offer up the ceiling plate and note how it fits to the projector plate.

Please note that the three threaded rods on the projector plate, do not require nuts, they simply function as pins which locate with the matching holes in the ceiling plate.





With the ceiling plate temporarily in place, measure the distance from the fixing holes on the ceiling plate to the back or front of the projector.

Use these measurements to work out where the ceiling plate should be positioned on the ceiling, in order to place the projector correctly in relation to the screen etc. Please note that the mounting holes on the ceiling plate must all be fixed to surfaces which are capable of supporting the weight of the projector and bracket, such as ceiling joists, and never to plasterboard alone. If sufficient structural material is not in place where you need it, you should arrange for suitable material to be installed inside the ceiling. Use suitable fixings according to the construction of the ceiling and if in doubt consult an experienced professional for advice or assistance.



It is important to ensure that the front of the ceiling plate is parallel with the screen. It can be useful to initially fit one fixing to the central fixing hole, then use careful measurements to check that the front of the ceiling plate is parallel with the screen, make slight rotational adjustments as necessary before drilling any further holes in the ceiling and installing the remaining fixings to all of the other fixing holes on the ceiling plate.

Next fit the four M5 screws (provided) to the projector plate as shown in the photo to the right.

In particular the longer screws to the left and right edges should initially not be screwed in any further than shown, as doing so at this stage would make it impossible to slot the plates together.



Lifting the projector into place should be undertaken from a suitable platform with a second person to assist.

Lift up the projector and insert the three threaded rods on the projector plate into the matching 3 holes on the ceiling plate. Lift the other end of the projector until the shanks of the two machine screws pass through the slots in the ceiling plate as pictured below.



Continue to support the projector and rotate the central pair of machine screws clockwise until they are finger tight.

Carefully reduce your support of the projector whilst checking that it is securely supported by the mount.

Next push the projector fully upwards (the two main machine screws which are only finger tight should slide upwards by a few millimetres).

Now rotate clockwise the two longer machine screws (located to the left and right edges of the projector plate). These screws will interact with the ramps at the two edges of the ceiling plate, to provide tilt adjustment.



By adjustment of these screws it is possible to adjust the height of these two corners of the projector plate, thus achieving the desired left right tilt or forward backward tilt. The pivot point being the central one of the 3 threaded rods, (the other two rods are located in elongated holes and as such do not impede the tilting of the projector).

Once the desired tilt has been achieved the central two machine screws must be tightened fully to lock the position. Examples of left and right tilt can be seen in the two images below and forward backward tilt can also be achieved. (These images show a slightly smaller mount in white with a different model of projector, but the levelling adjustments are the same).



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