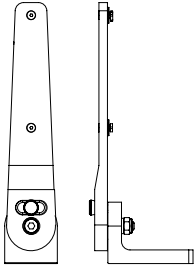
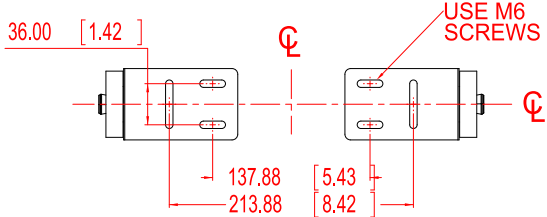
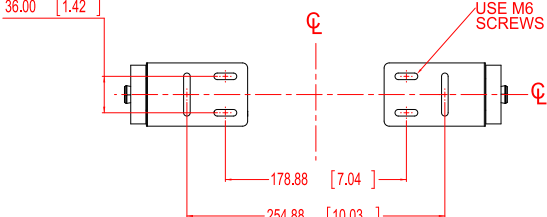
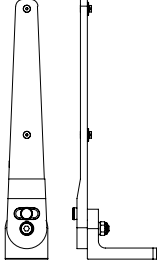
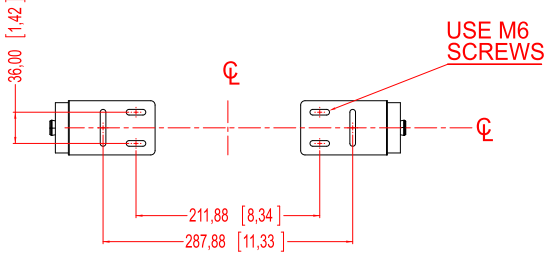
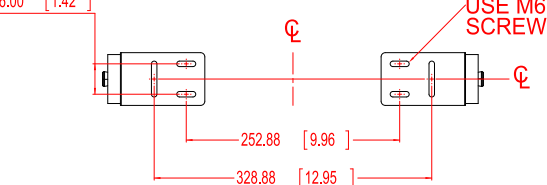


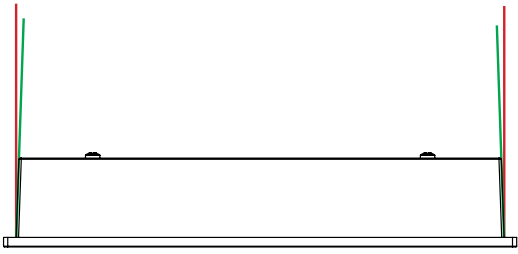
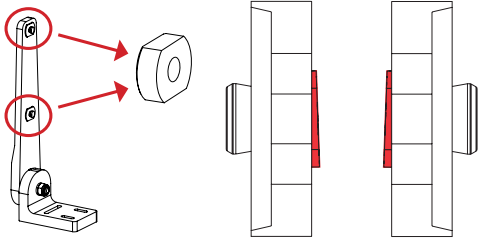


Mounting Bracket, Table / Desktop / Ceiling - 12",15",17",19"

Typenumber	Illustration	Fits unit model	"Footprint" indicates holes to drill at installation location.
HD TMB-SX1-A1		HD 12T21 MMD-xxx-Fxxx HD 12T21 STD-xxx-Fxxx HD 12T21 MMC-xxx-xxxx	
		HD 15T21 MMD-xxx-Fxxx HD 15T21 STD-xxx-Fxxx HD 15T21 MMC-xxx-xxxx	
HD TMB-SX1-B1		HD 17T21 MMD-xxx-Fxxx HD 17T21 STD-xxx-Fxxx HD 17T21 MxC-xxx-xxxx	
		HD 19T21 MMD-xxx-Fxxx HD 19T21 STD-xxx-Fxxx HD 19T21 MxC-xxx-xxxx	

Important to know about LEFT and RIGHT brackets

Throughout the following installation procedure, it is important to understand the difference between LEFT and RIGHT brackets. The Display and Panel Computer chassis are not 100% square boxed, but are slightly designed with a minor narrow angled chassis towards the rear (FIG1) to allow easier “drop-in” of units into consoles. Likewise to get a correct footprint placement of the brackets, both brackets feature a slight angled design on the oval circled cut shaped block to compensate for this (FIG2) making LEFT and RIGHT bracket slightly different and naturally has to be correctly mounted.

Please ensure that LEFT and RIGHT brackets are as indicated in FIG4, and not as shown in FIG3 below.

<p>FIG 1 Red Line straight up Green Line indicates slight angled design of chassis</p>	<p>FIG 2 Location of angled block, and seen straight from top showing slight angle</p>
	<p>LEFT BRACKET RIGHT BRACKET</p> 
<p>FIG 3 - Seen from under bracket base Wrong mounting of LEFT / RIGHT Brackets Indicating footprint is incorrect</p>	<p>FIG 4- Seen from under bracket base Correct mounting of LEFT / RIGHT Brackets Indicating footprint is correct</p>
	

Installation Procedure - TMB Versions

Procedure suitable for: Display (MMD/STD) and Panel Computer (MMC) Series X Generation (G1) product ranges. 19 inch model used as example in this procedure.

You need:

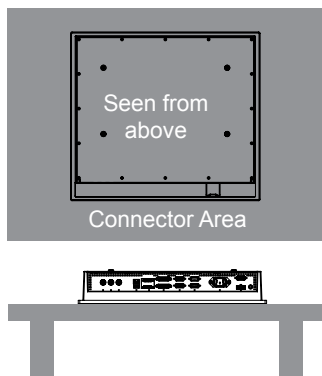
- M4 Unbrako® Hex Key tool (not included with delivery).
- M7 Unbrako® Hex Key tool (not included with delivery) - Needed only for alternative procedure in Step 2,3.
- M17 Open End Wrench tool (not included with delivery) - Needed only for alternative procedure in Step 2,3.
- Fasteners (6 pcs M6) for mounting complete unit onto table or desktop location (not included with delivery).
- 1 pcs of HD TMB SX1-A1 Mounting Bracket Kit (for 12 and 15 inch)
- or 1 pcs of HD TMB SX1-B1 Mounting Bracket Kit (for 17 and 19 inch)

Boxed marked with GREY color below are considered alternative procedures. In most cases, these procedures can be ignored as suggested by factory.

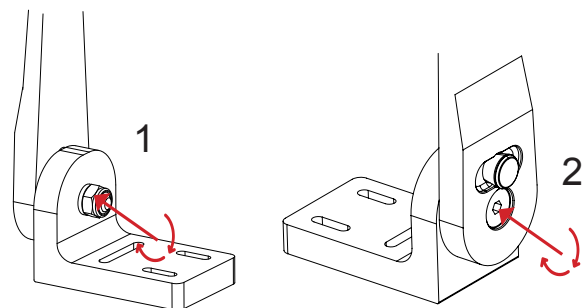


Attention: A suitable pre-drilled location and knowledge of measurements for both main unit and brackets/tilting functionality should be prepared and checked prior to mounting. Please disconnect ALL cables before proceeding. Please review User Manual or visit www.hattelandtechnology.com for Technical Drawings regarding measurements for both main unit and Mounting Brackets.

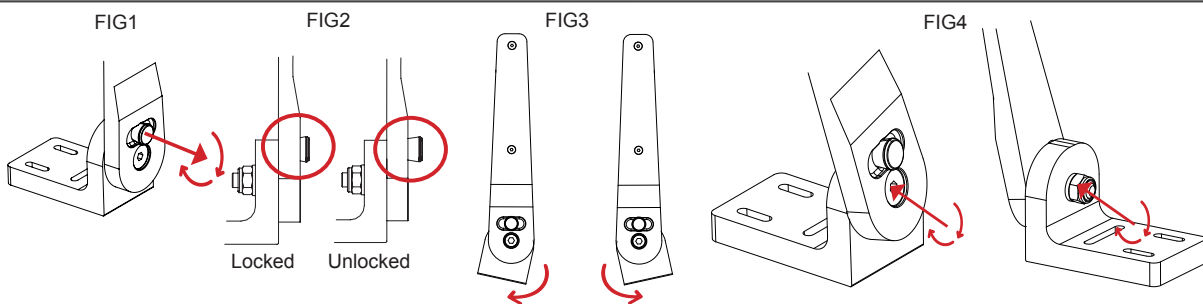
▼ 1: Place the unit on a dry, flat, clean, soft surface (i.e. table) with the glass front facing down as illustrated. Connector area should be facing downwards from you.



▼ 2: By factory default the lower part of the bracket (Feet Base) are tightly fastened by the center Hex Socket Bolt and Locking Nut. Tilting can not be performed by hand. If you need to pre-configure the tilt angle of the final assembled unit with brackets BEFORE you secure it into the installation location, simply unscrew and loosen the Locking Nut (M17) first and the Hex Socket Screw (M7) as indicated below. If there is no need to adjust the Feet Base (use recommended factory default position of 0 degree), skip to step 4 now.

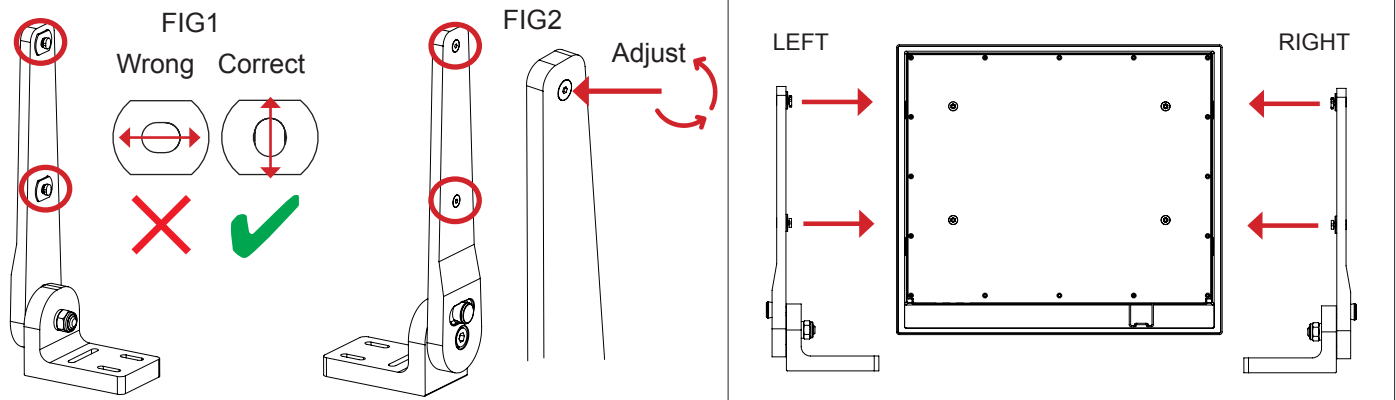


▼ 3: Once loosened a bit, pull out the Tilting Lock Pin, rotate it 90° (FIG1 / FIG2) and you are now able to tilt/rotate the Feet Base by hand (FIG3). Once the desired angle has been reached, rotate the Tilting Lock Pin 90° and lock the angle into the nearest "click" the Locking Pin matches (FIG 1 / FIG2). Make sure both Feet Base are tilted/rotated to EXACTLY the same angle! Secure both Hex Socket Bolts and Locking Bolt (FIG4) so they cannot move by themselves when proceeding to next step. Use Torque Force 25Nm.

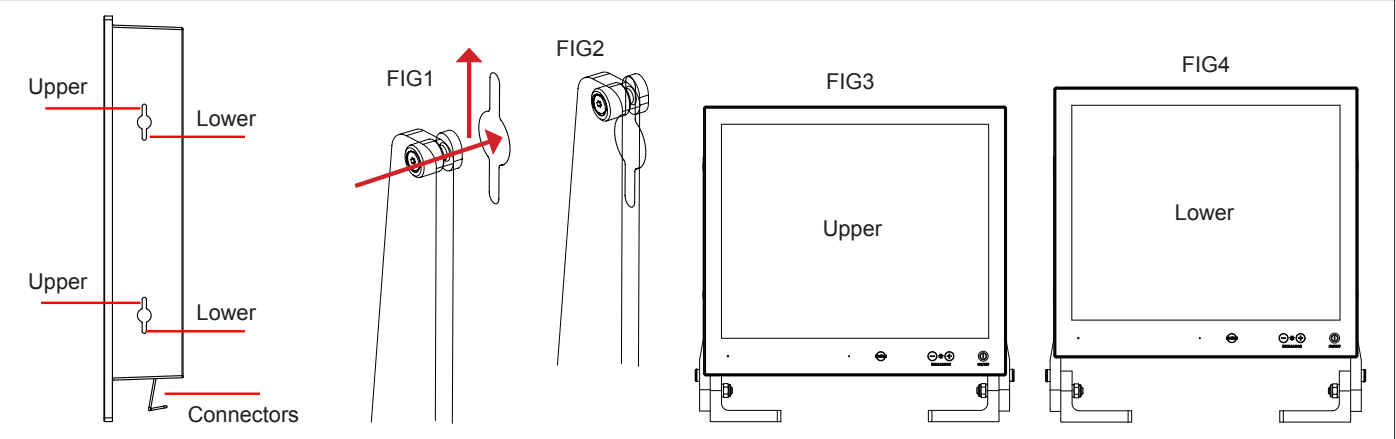


▼ 4: Inspect the inner side of both brackets and especially the orientation of the Key Hole Plug (4 pcs). They should be shaped as an standing "egg" to ensure proper fitting in the Key Hole of unit (FIG1). Note: You may have to loose the fastening screw (M5) (FIG2) if the Key Hole Plug can not be turned by hand.

▼ 5: Notice the indication of LEFT and RIGHT. The mounting bracket (2 pcs) is marked with respective stickers "L" and "R" from factory. Please make sure that LEFT bracket is positioned on LEFT side and RIGHT bracket is positioned on the RIGHT side as shown below.

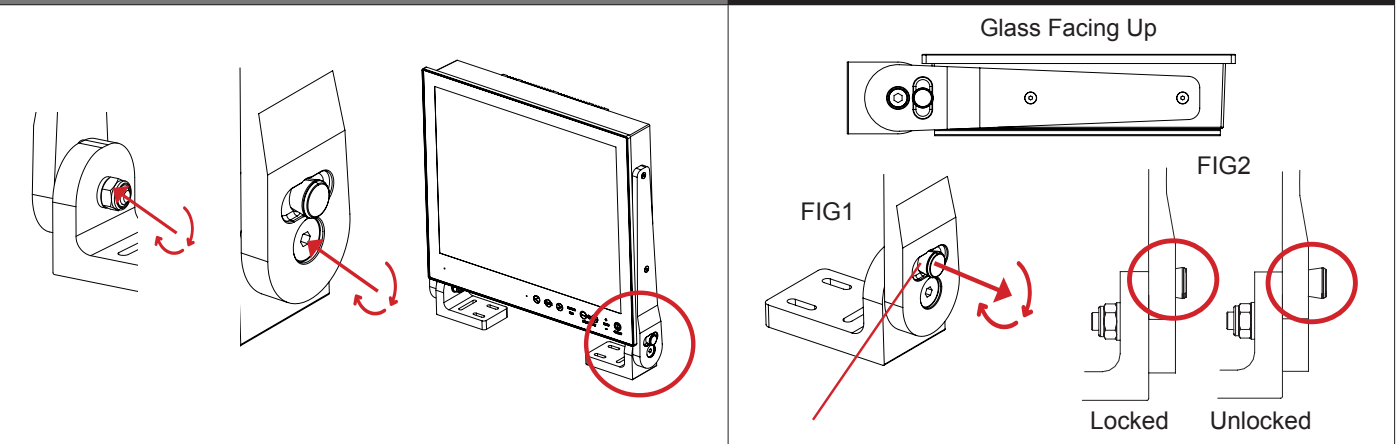


▼ 6: Ensure that both Key Hole Plugs slide into the Key Holes and goes to the upper position (factory recommended) (FIG1 and FIG2). If they appear too tight, you may loose the Key Hole Plug screw a few turns and re-try (see previous step 4). You can also alternatively use the lower position of Key Hole to add extra height under unit to allow cables and/or additional installed connectors to fit in tight installations (FIG 3 and FIG 4 shows difference gained).

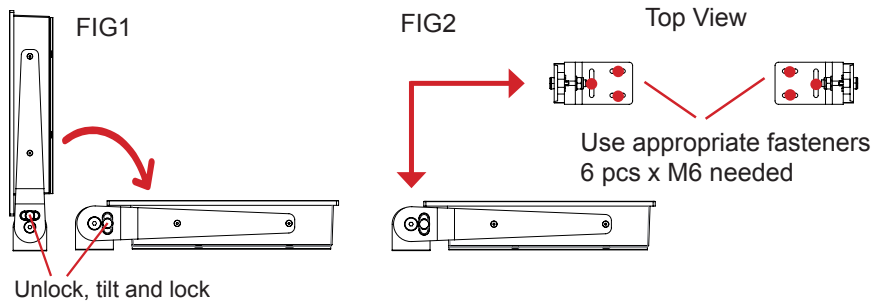


Note: If you had previously loosened the Hex Socket Bolt and Locking Nut in Step 2-3, secure both the Hex Socket Bolt and Locking Nut using Torque Force 25Nm. If you didn't loose them, proceed to Step 8.

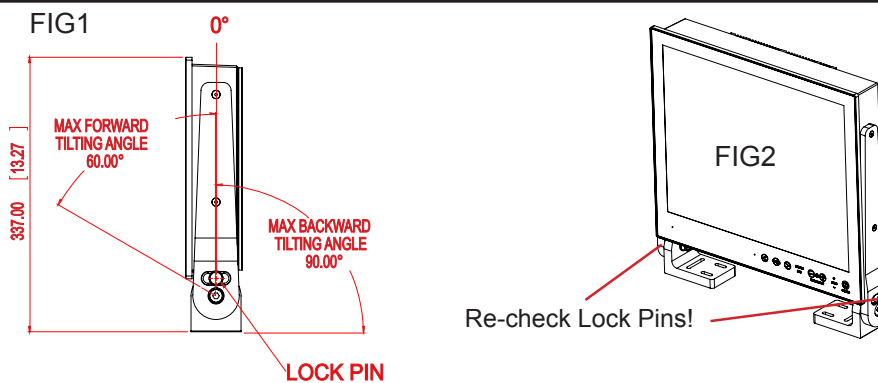
▼ 7: While unit is lying flat on table, check the Tilting Lock Pin position. These can be pulled out by hand, turned 90° (FIG1) and turned back 90° until the Lock Pin automatically clicks into place by a spring (FIG2).



▼ 8: You may now mount the unit onto your desired location. It is advised that you unlock the Lock Pin (as shown in step 5), tilt the unit 90 degrees backwards (FIG1) and properly fasten the bracket base into location (FIG2). **NB! Be careful not to break or scratch the edge of the front glass!** You may notice that it is now possible to tilt the unit while Base Feets are fasten as the added weight of unit will help the momentum (see Step 2, "Tilting can not be performed by hand").



▼ 9: Max Forward and Backward angle shown below (FIG1). When your desired tilting position has been achieved, you need to verify that the Tilting Lock Pin are in locking position and the unit is firmly attached and does not appear loose (FIG2).



▼ Alternative Mounting: Depending on installation needs, you may mount the complete unit in ceiling in two different ways.
Normal Position: User Controls will be upside down, cables go straight up. You may configure Glass Display Control™ (GDC) LED symbols to show or not, since symbols will be seen upside down.
 Review <https://www.hattelandtechnology.com/hubfs/pdfget/inb10018-4.htm> ("Glass Display Control™ (GDC) LED & Button operations" section).

Swapped Position: User Controls readable, cables has to bend up or go straight down, Left and Right Bracket needs to be swapped, indicating Left Bracket on Right Side, and Right Bracket on Left Side to ensure proper fitting and to avoid wrong footprint of the mounting holes of the bracket base (reference to "Important to know about LEFT and RIGHT brackets").

Normal Position

Swapped Position

