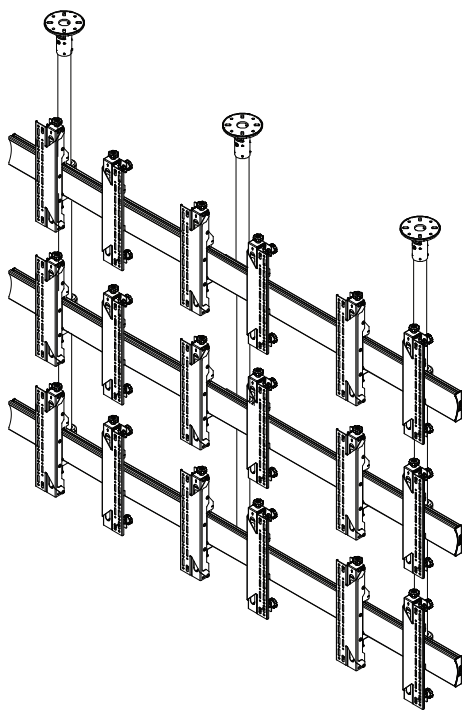


SYSTEM **X**

Universal Ceiling Mounted Videowall Mounting System

Installation Guide



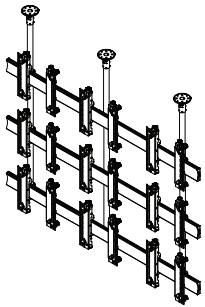
- Recommended screen size: 32" - 75"
- Max weight per screen: 50kg (110lbs)
- Suitable for landscape or portrait mounting
- Sections can be joined together to increase menu board width
- Safety screws help prevent unauthorised removal of screens
- All mounting hardware included

Note: This assembly manual covers different installations. Some parts or procedures shown may not be required for installation.

Recommended Max Screen	Max Load Per Screen	Micro Adjustment	Post Install Alignment
75" 190cm	50kg [110lbs]		

Please refer to page 5 for VESA® fixings

Installation Safety Notes	2
Parts List	4
Typical Installation	6
Installation Instructions	7
Product Dimensions	17
B-Tech Contact Details	20



Installation & Operating 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 wall 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 walls. 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.

- CN B-Tech AV Mounts 建议本产品由专业AV安装人员或其他合格人员安装。B-Tech AV Mounts 及它的代理商、经销商不对由于不恰当的安装而造成的损失或伤害负责。本产品必须安装在合适的架构上，并仅用于不超过所标示的最大承重。
- CS Společnost B-Tech AV Mounts doporučuje provést instalaci tohoto produktu instalátora AV či jinak způsobilé osoby. Společnost B-Tech AV Mounts, její distributoři a prodejci nenesou prostřednictvím odborného odpovědnost za škody nebo zranění způsobená nevhodnou instalací. Tento výrobek je nutno umístit do vhodné konstrukce a používat jen po uvedené maximální výšce.
- DE B-Tech AV Mounts empfiehlt, dass dieses Produkt durch einen qualifizierten AV-Techniker oder eine andere Person mit geeigneter Qualifikation installiert wird. B-Tech AV Mounts, ihre Distributoren und Händler können nicht für durch fehlerhafte Montage verursachte Beschädigung oder Verletzung haftbar bzw. verantwortlich gemacht werden. Dieses Produkt muss auf einem geeigneten Untergrund montiert werden und darf nur bis zum angegebenen Höchstgewicht verwendet werden.
- EN B-Tech AV Mounts recommends that this product be installed by a qualified AV technician or other suitably qualified person. 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. This product must be mounted on a suitable surface and may only be used up to the specified maximum weight.
- ES B-Tech AV Mounts recomienda que un instalador de audio y video profesional u otra persona debidamente cualificada instalen este producto. B-Tech AV Mounts, sus distribuidores y concesionarios no se hacen cargo ni se responsabilizan de ningún daño o lesión provocados por una instalación inapropiada. Este producto se debe montar en una estructura adecuada y se debe utilizar soportando solamente hasta el peso máximo indicado.
- FR B-Tech AV Mounts recommande de confier l'installation de ce produit à un installateur AV professionnel ou à une autre personne dûment qualifiée. B-Tech AV Mounts, ses distributeurs et ses revendeurs ne sauraient être tenus responsables de tout dégât ou de toute blessure résultant d'une installation incorrecte. Ce produit doit être monté sur un support approprié et utilisé dans la limite du poids maximum indiqué.
- IT B-Tech AV Mounts consiglia di affidare l'installazione di questo prodotto a un installatore specializzato o ad altra persona adeguatamente qualificata. B-Tech AV Mounts, i suoi distributori e rivenditori non accettano alcuna responsabilità nei riguardi di eventuali danni o infortuni causati da un'errata installazione. Questo prodotto deve essere fissato a una struttura idonea e utilizzato unicamente sino al peso massimo indicato.
- JP B-Tech AV Mounts はAV設置の専門家または適合した知識を備えた人が製品を設置することを推奨します。B-Tech AV Mountsと販売店、取引先はこうした安全指針に従わない場合に随伴される製品の損傷や傷害に対する責任を負いません。場合によって製品が設置されるに適していないところもあるので設置位置に特別な注意を傾けてください。この製品の位置に注意を傾けて設置に適していない壁があるかを確認してください。指定した重さ制限を超過するAV装備を装着しないでください。
- KR B-Tech AV Mounts 는 AV 설치 전문가 또는 적합한 지식을 갖춘 사람이 제품을 설치하도록 권장합니다. B-Tech AV Mounts 와 판매점, 거래처는 이러한 안전 지침을 따르지 않을 경우에 수반될 제품의 손상이나 손해에 대한 책임을 지지 않습니다. 경우에 따라 제품이 설치되기에 적합하지 않은 곳들도 있으므로 설치 위치에 특별한 주의를 기울여 주시기 바랍니다. 제품의 설치 위치에 주의를 기울여 확인하십시오. 지정된 무게 제한을 초과하는 AV 장비를 장착하지 마십시오.
- NL B-Tech AV Mounts adviseert om dit product te laten installeren door een professionele AV-installateur of andere hiervoor gekwalificeerde persoon. B-Tech AV Mounts, haar distributeurs en dealers zijn niet aansprakelijk of verantwoordelijk voor schade of letsel die is veroorzaakt door onoordeelkundige installatie. Dit product moet worden gemonteerd aan een geschikte constructie, waarbij het aangegeven maximum gewicht niet mag worden overschreden.
- PL Firma B-Tech AV Mounts zaleca, aby ten produkt był instalowany przez profesjonalnych instalatorów AV lub inny odpowiednio przeszkolony personel. Firma B-Tech AV Mounts, jej dystrybutorzy i dealerzy nie ponoszą odpowiedzialności za uszkodzenia lub obrażenia ciała powstałe w wyniku nieprawidłowej instalacji. Niniejszy produkt musi być amontowany na odpowiedniej powierzchni, a podczas użytkowania nie wolno przekraczać podanego maksymalnego obciążenia.
- PT A B-Tech AV Mounts recomenda que a instalação deste produto seja efectuada por um instalador de AV instalador de AV profissional ou outra pessoa devidamente habilitada. A B-Tech AV Mounts e os seus distribuidores e concessionários não são responsáveis por danos ou lesões causados por uma instalação incorrecta. Este produto tem de ser montado numa estrutura adequada e utilizado somente até ao peso máximo indicado.
- RU Компания B-Tech AV Mounts рекомендует, чтобы установка данного изделия производилась инженером по установке аудио-видеотехники или другим специалистом с соответствующей квалификацией. Компания B-Tech AV Mounts ее дистрибьюторы и дилеры не несут ответственности за повреждения или травмы, полученные в результате неправильной установки.

توصي بي- تك للتجارة الدولية المحدودة بأن شخص محترف في تركيب ال AV او شخص مؤهل تأهيلا مناسباً لتركيب هذا المنتج. بي- تك للتجارة الدولية، موزعها والتجار ليست عرضة أو مسؤولة عن الأضرار أو الإصابات الناجمة عن تركيب غير سليم، والاستخدام غير السليم أو عدم مراعاة هذه التعليمات للسليم. يجب أن يتم تركيب هذا المنتج في بنية مناسبة ويجب استخدام فقط لحد الأقصى للوزن المشار إليه.

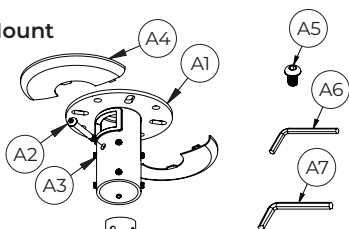
BT8342 Parts List

Please keep this for future reference

Due to the multiple installations available the quantity for each option below is dependent on the mount ordered. All these components can be moved or carried by manpower. Please be careful to avoid injury when handling these components before & during the installation or when uninstalling the mount.

A. Ceiling Mount

BT7822



Item	Description	Qty per pack
A1	Ceiling Plate	1
A2	M8 x 60mm Hex Socket Screw	1
A3	M8 x 8mm Grub Screw	8
A4	Ceiling Plate Cover	2
A5	M8 x 12mm Hex Screw	1
A6	4AF Hex Key	1
A7	5AF Hex Key	1

B. Extension Pole

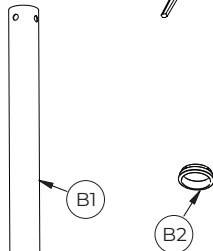
BT7850-050

BT7850-100

BT7850-150

BT7850-200

BT7850-300



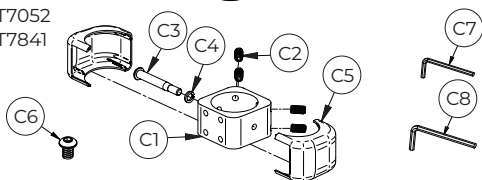
Item	Description	Qty per pack
B1	Extension Pole	1
B2	Pole End Cap	1

C. Collar

BT7051

BT7052

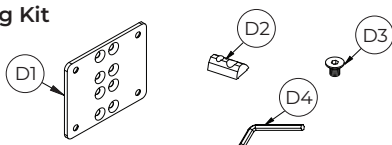
BT7841



Item	Description	Qty per pack
C1	Collar	1
C2	M8 x 15mm Grub Screw	4
C3	M8 x 65mm Safety Hex Bolt	1
C4	M8 Spring Washer	9
C5	Collar Coverplate (Half)	2
C6	M8 x 12mm Screw	8
C7	4AF Hex Key	1
C8	5AF Hex Key	1

D. Collar Fixing Kit

BT8390-CFK



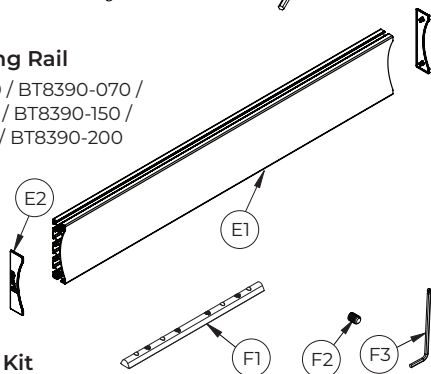
Item	Description	Qty per pack
D1	Collar Fixing Plate	1
D2	M8 Sliding Nut	4
D3	M8 x 12mm CSK Hex Screw	8
D4	3AF Hex Key	1

E. Mounting Rail

BT8390-050 / BT8390-070 /

BT8390-100 / BT8390-150 /

BT8390-175 / BT8390-200



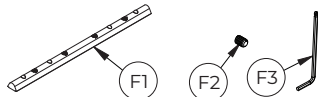
Item	Description	Qty per pack
E1	Mounting Rail	1
E2	End Cap	2

Optional

F. Rail

Extension Kit

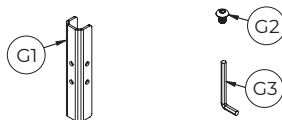
BT8390-EXT



Item	Description	Qty per pack
F1	Joining Bar	6
F2	M6 x 8mm Grub Screw	24
F3	3AF Hex Key	1

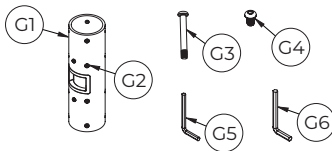
All these components can be moved or carried by manpower. Please be careful to avoid injury when handling these components before & during the installation or when uninstalling the mount.

Optional
G. Pole
Extension Kit
BT7823



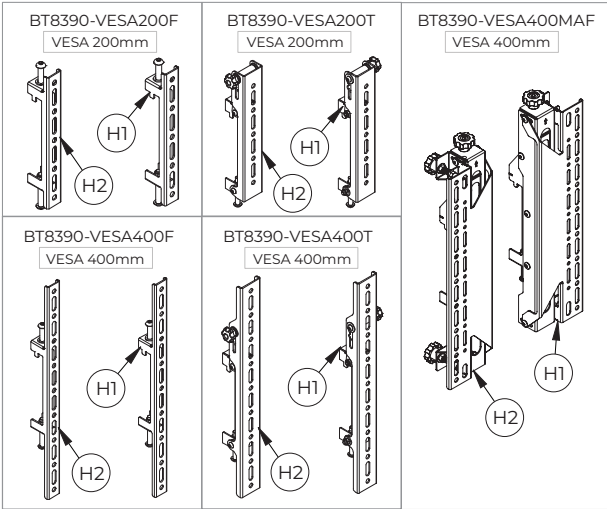
Item	Description	Qty per pack
G1	Internal Joiner	1
G2	M10 x 12mm Screw	6
G3	6AF Hex Key	1

BT7824



Item	Description	Qty per pack
G1	External Joiner	1
G2	M8 Grub Screw	16
G3	M8 x 60mm Screw	2
G1	M8 x 12mm Screw	2
G2	4AF Hex Key	1
G3	3AF Hex Key	1

H. Interface Fixing Kit
Screen Interface Arms

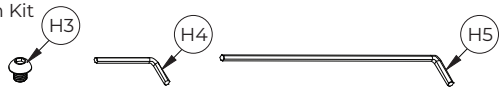


Item	Description	Qty per pack
H1	Interface Arm - Left	1
H2	Interface Arm - Right	1
H3	M6 x 8mm Screw**	4
H4	4AF Hex Key**	1
H5	5AF Hex Key	1

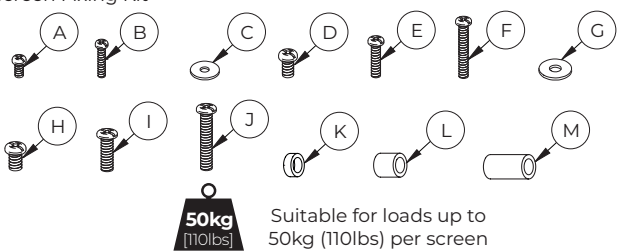
Screen Fixings

A	M4 x 12mm Screw*	4
B	M4 x 25mm Screw*	4
C	M4 Washer*	4
D	M6 x 16mm Screw	4
E	M6 x 25mm Screw	4
F	M6 x 40mm Screw	4
G	M6 Washer	4
H	M8 x 16mm Screw	4
I	M8 x 25mm Screw	4
J	M8 x 50mm Screw	4
K	5mm Spacer	4
L	15mm Spacer	4
M	25mm Spacer	4

Interface Arm Kit



Screen Fixing Kit

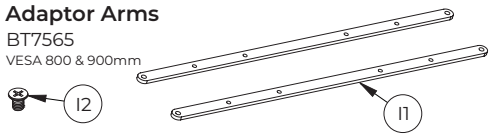


Suitable for loads up to
50kg (110lbs) per screen

* Not included with the BT8390-VESA400F, BT8390-VESA400T or BT8390-VESA400MAF
** Not included with the BT8390-VESA400MAF, BT8390-VESA200F or BT8390-VESA400F

Optional
I. Interface Adaptor Arms

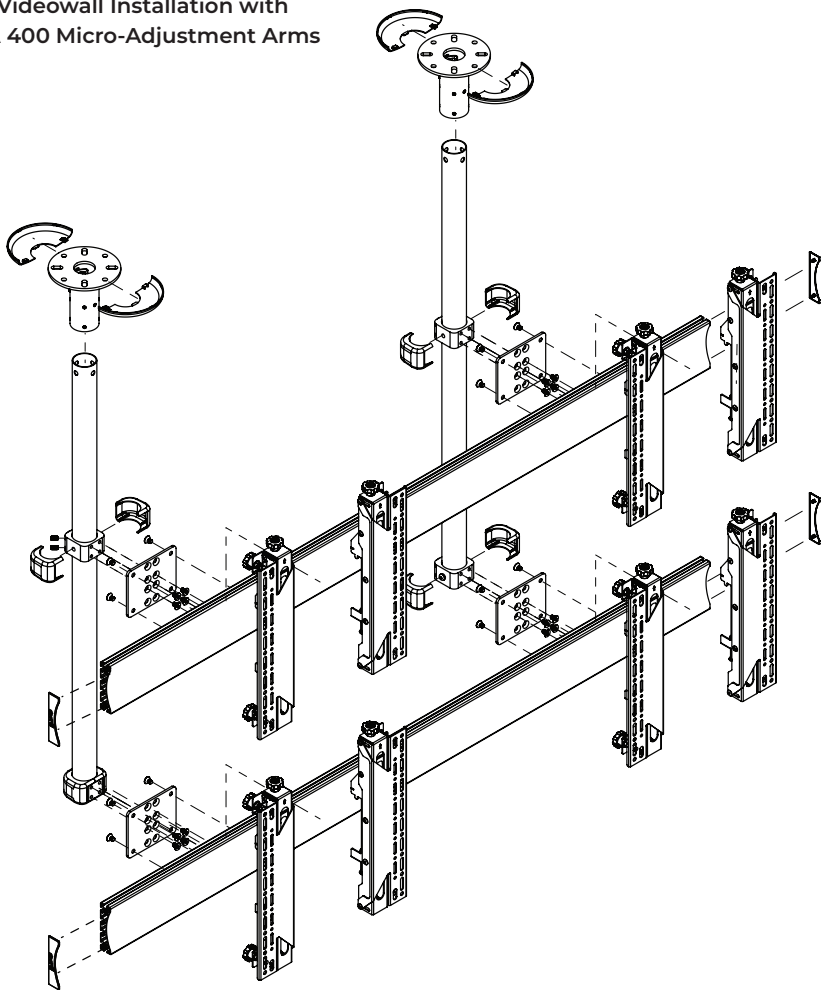
BT7564 / BT7565
VESA 600mm / VESA 800 x 900mm



Item	Description	Qty per pack
I1	Adaptor Arms	2
I2	M8 x 12mm Screw	4

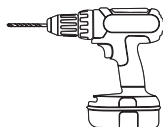
Typical Installations

2 x 2 Videowall Installation with VESA 400 Micro-Adjustment Arms



Installation Tools Required

Drill



Pencil



Screwdriver



Level



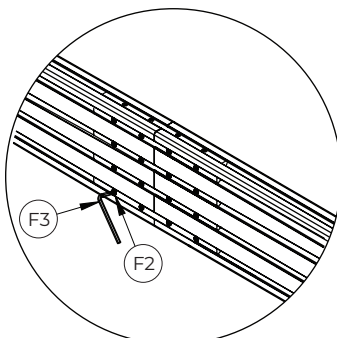
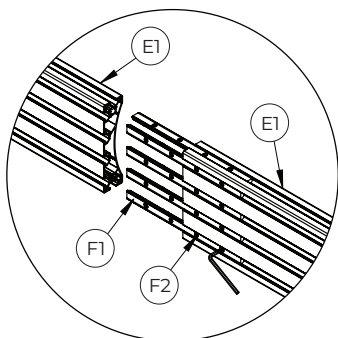
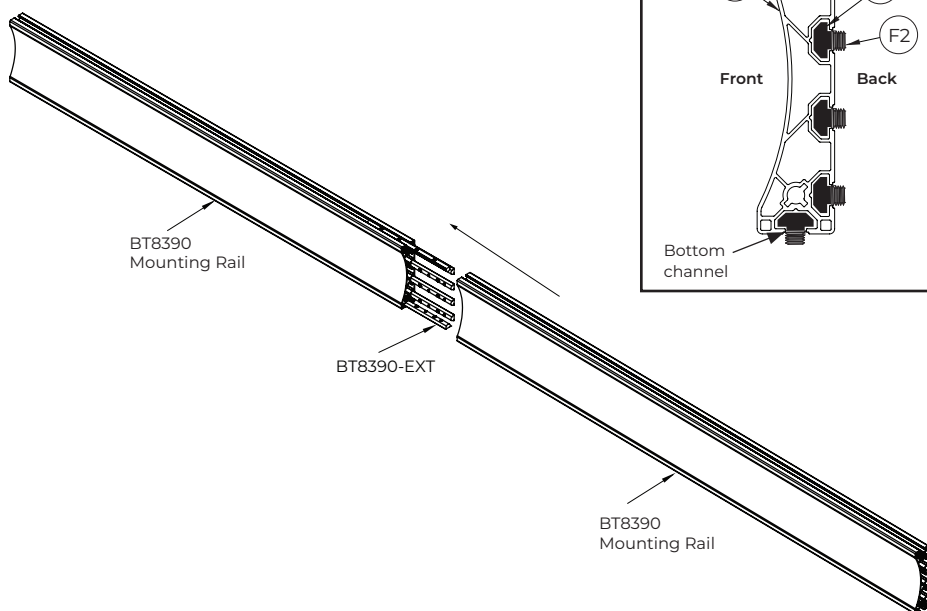
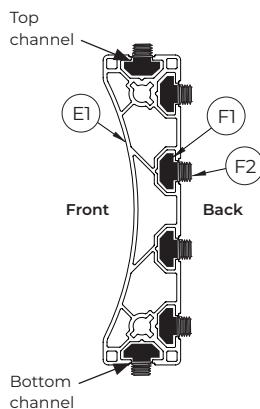
Optional Extending The Mounting Rail

Combining Mounting Rails

- i. On the back, top and bottom* of item E1, insert item F1 halfway into each channel.
- ii. On each joining bar, loosely fasten item F2 fixing it to the mounting rail.
- iii. Slide the second rail (item E1) onto item F1 and tighten all items F2, combining the rails securely.

Joining Bar Assembly

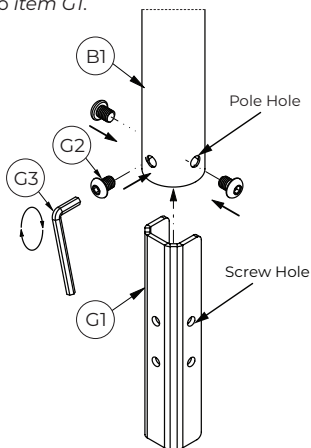
***Note:** If hooking a screen interface arm (item H1 or H2) over the rail join, do not place a joining bar (item F1) in the top or bottom channels.



Optional Combining Extension Poles

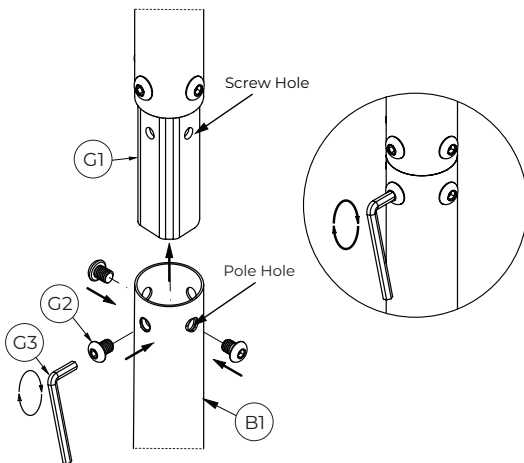
BT7823 Internal Pole Joiner

- i. Insert *item G1* into the bottom of *item B1*, lining up the top screw holes on *item G1* with the holes on the bottom of the pole.
- ii. Insert *item G2* through the holes in the pole into *item G1*.



- iii. Slide *item B1* onto the bottom of *item G1* and align the bottom screw holes on *item G1* with the holes on the pole.

- iv. Insert *item G2* through the pole holes.



BT7824 External Pole Joiner

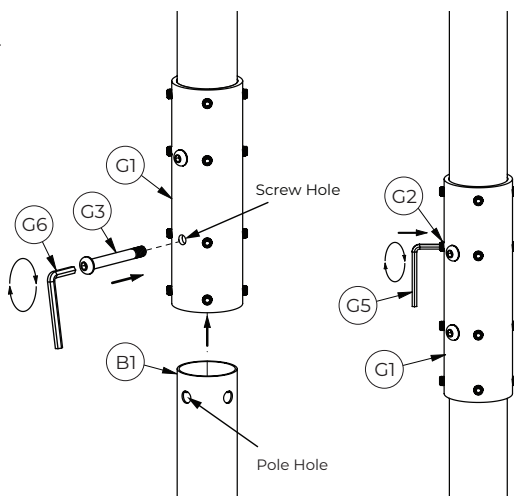
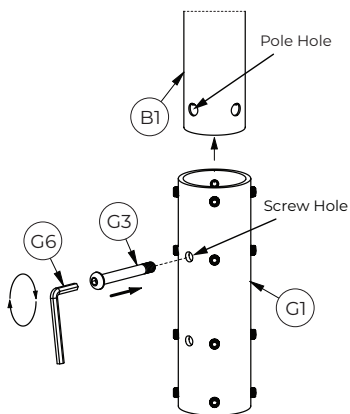
- i. Insert *item B1* into the top of *item G1*, lining up the top screw hole with the hole in the pole.
- ii. Insert *item G3* or *item G4** through the top screw hole.

***Note:** *Item G3* can be replaced with *item G4* to prevent cables being obstructed.

- iii. Insert *item B1* into the bottom of *item G1* and align the bottom screw hole with the pole hole.

- iv. Insert *item G3* or *item G4** through the bottom screw hole.

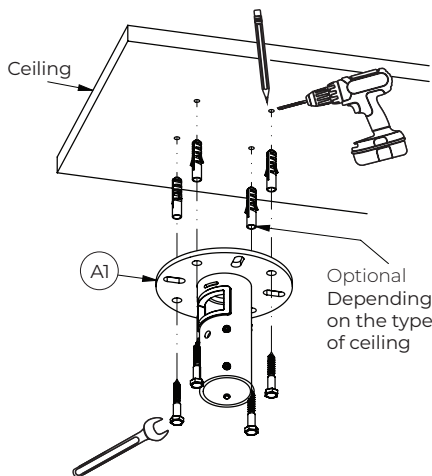
- v. Tighten *item G2* onto both poles.



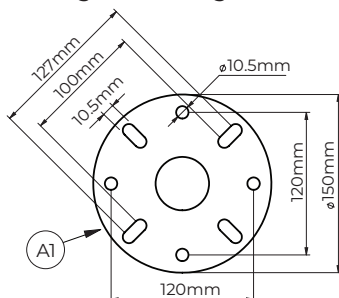
Installation Instructions

1. Fix Mount Bracket To Ceiling

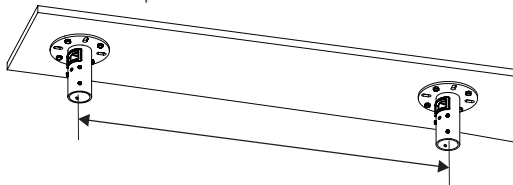
Fix *item A1* to the ceiling using suitable fixings (*not supplied*).



Ceiling Plate Fixing Dimensions

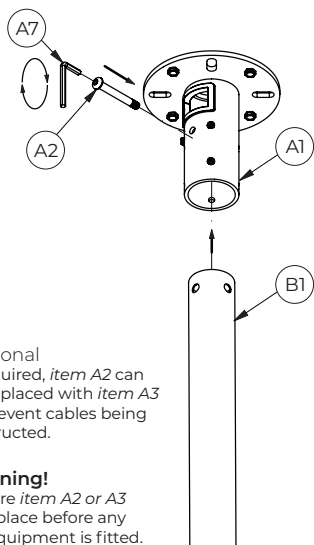


Note: Space *item A1* the same distance apart as *item C1* on *item E1*.



2. Attach Pole To Ceiling Plate

i. Insert *item B1* into *item A1* and secure in place using *item A2*.

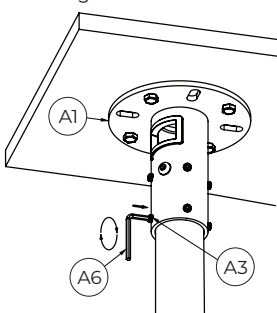


Optional
If required, *item A2* can be replaced with *item A3* to prevent cables being obstructed.

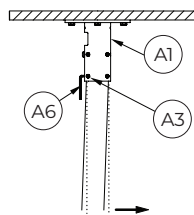
Warning!

Ensure *item A2* or *A3* is in place before any AV equipment is fitted.

ii. Tighten *item A3* using *item A6*.

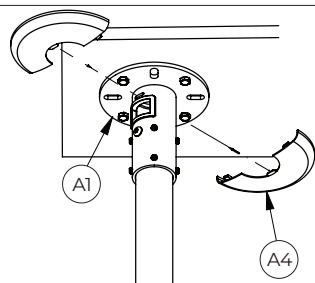


The angle of the pole can be micro-adjusted by adjusting *item A3* with *item A6*.



Attach Covers

Fit *item A4* onto *item A1*.

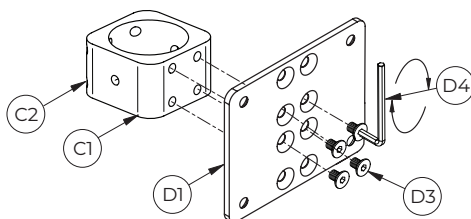
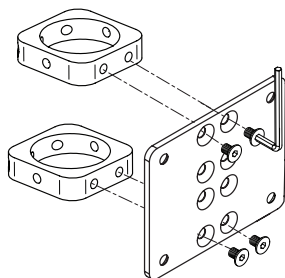


3. Assemble Collars Onto Rails

i. Attach *item C1* onto *item D1*.

Note: Ensure *items C2* are positioned on the back of *item C1*.

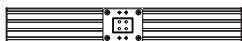
Assembly using 2 single collars



ii. Insert 2x *item D2* into the top channel of *item E1* and 2x *item D2* in the bottom channel.

Using a single ceiling mount.

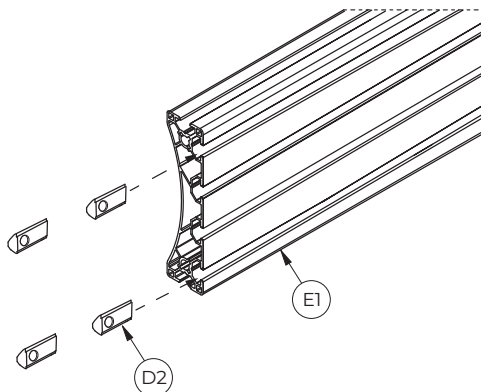
Position collar fixing plate centrally on the rail.



Using two or more ceiling mounts.

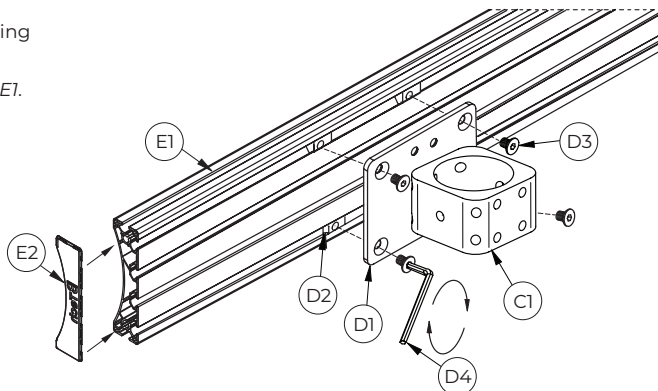
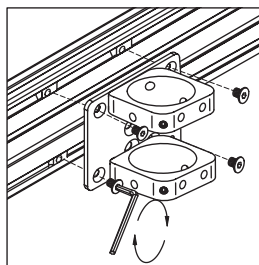
Measure equal distances between the collar fixing plates on the rail.

Note: The Max. distance apart for ceiling mount



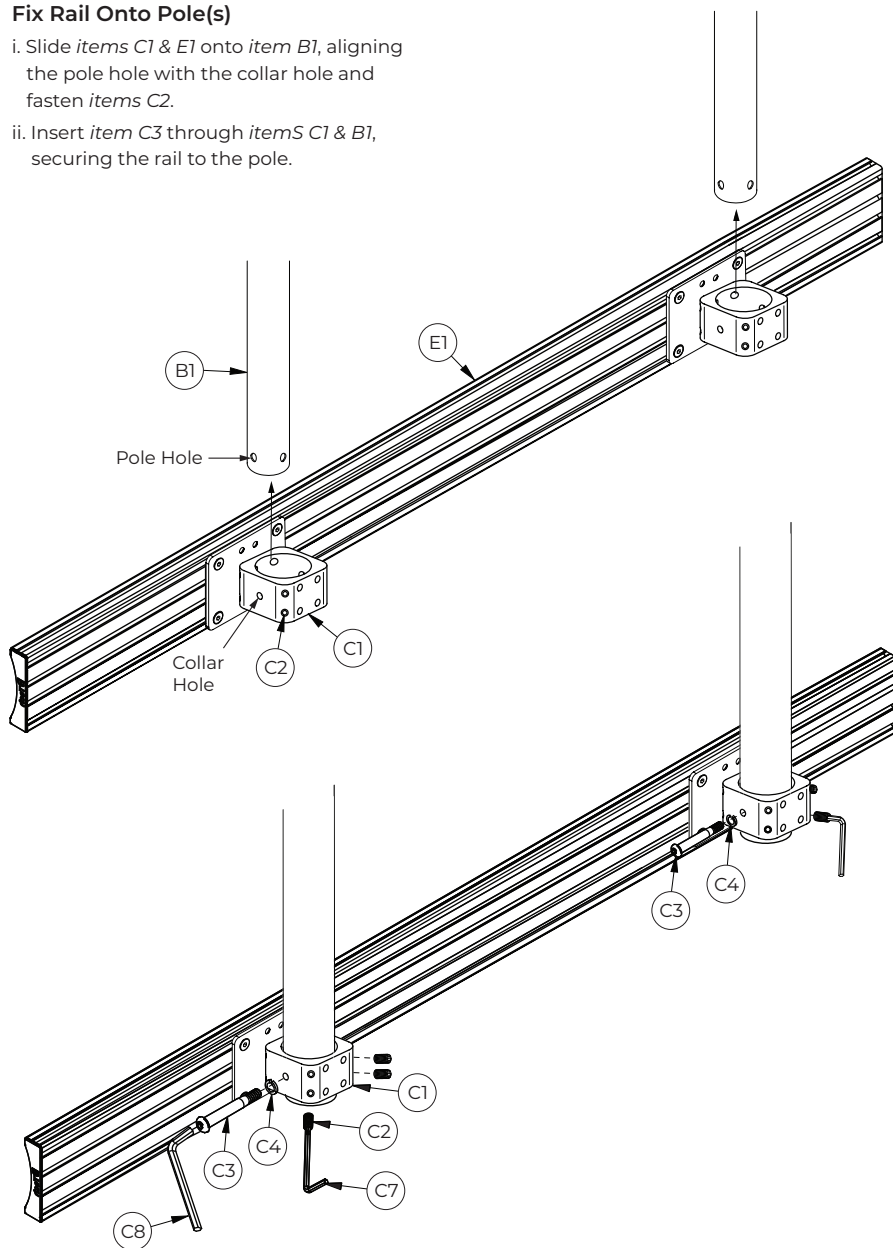
iii. Fix *item D1* to *item E1* by fastening *item D3* into *item D2*.

iv. Fit *item E2* to the ends of *item E1*.

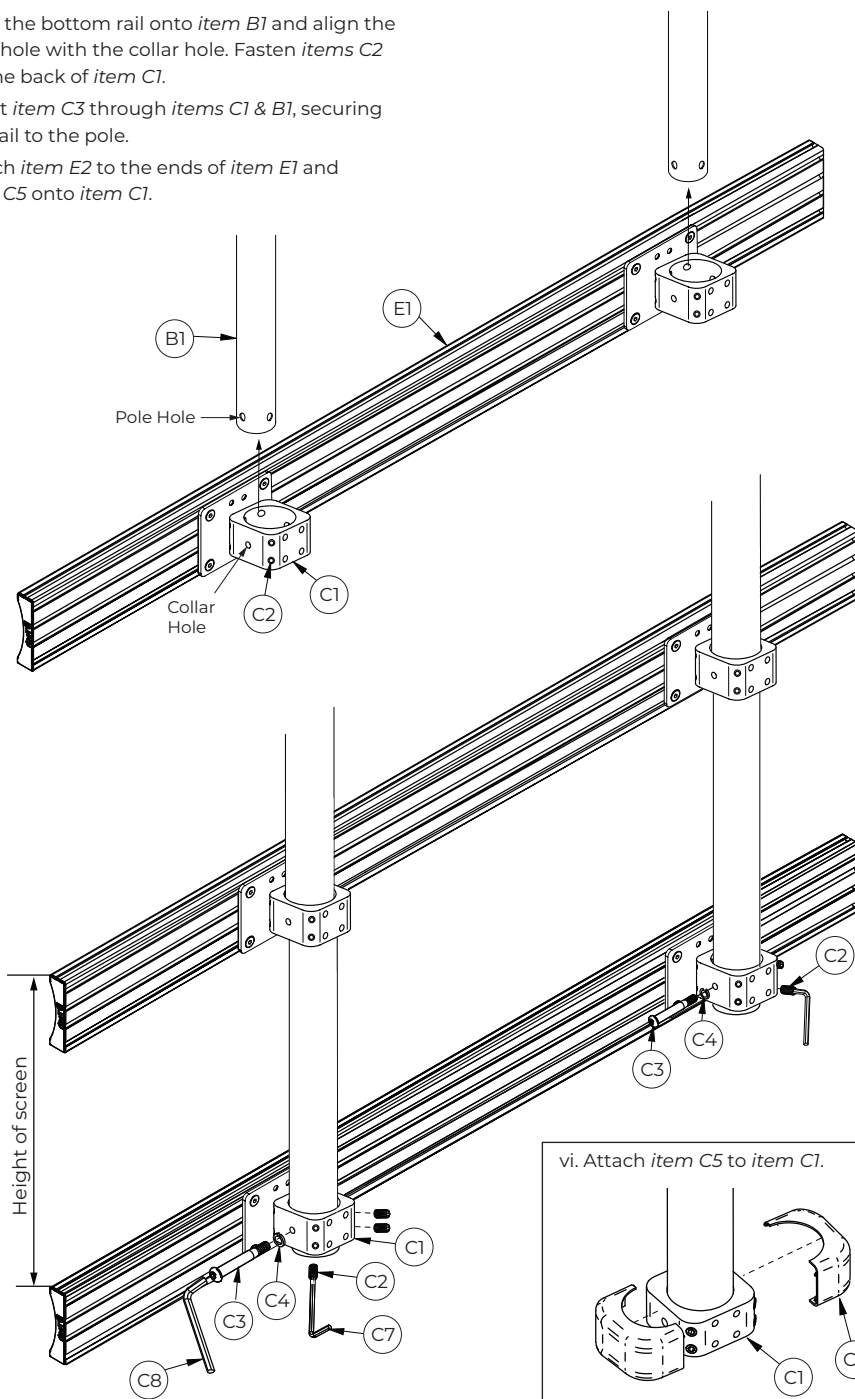


4. Fix Rail Onto Pole(s)

- i. Slide *items C1 & E1* onto *item B1*, aligning the pole hole with the collar hole and fasten *items C2*.
- ii. Insert *item C3* through *items C1 & B1*, securing the rail to the pole.



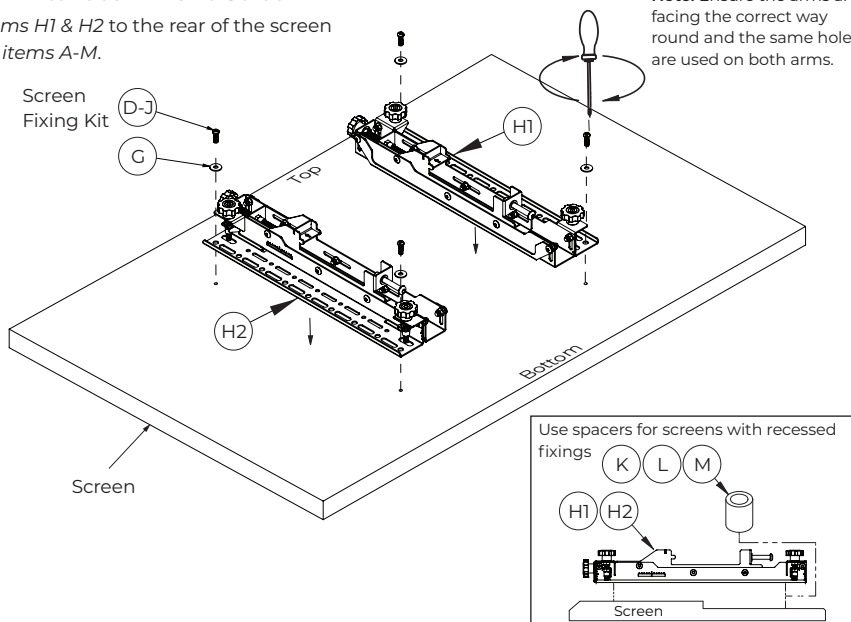
- iii. Slide the bottom rail onto *item B1* and align the pole hole with the collar hole. Fasten *items C2* on the back of *item C1*.
- iv. Insert *item C3* through *items C1* & *B1*, securing the rail to the pole.
- v. Attach *item E2* to the ends of *item E1* and *item C5* onto *item C1*.



5. Attach Interface Arms To Screen

Fix items H1 & H2 to the rear of the screen using items A-M.

Note: Ensure the arms are facing the correct way round and the same holes are used on both arms.

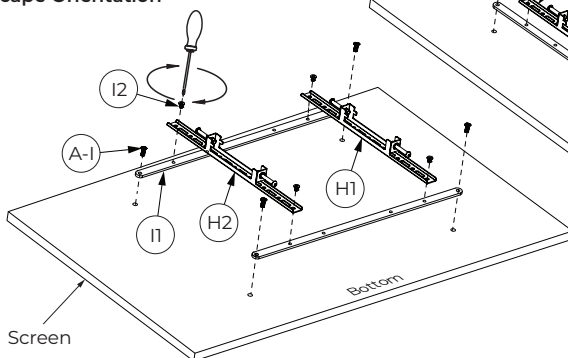


Optional Adaptor Arms

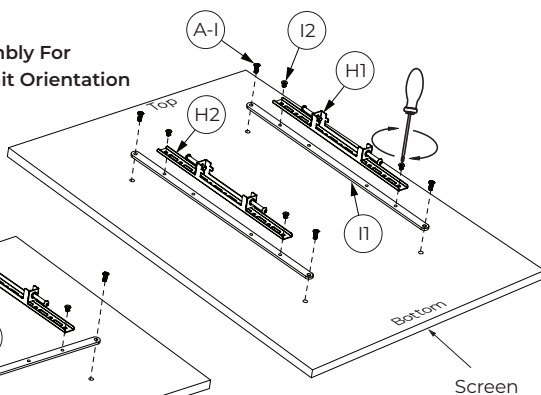
Attach Adaptor Arms To Interface Arms

- Use item I2 to fix item I1 to items H1 & H2.
- Attach item I1 to the screen using the screen fixing kit.

Assembly For Landscape Orientation



Assembly For Portrait Orientation



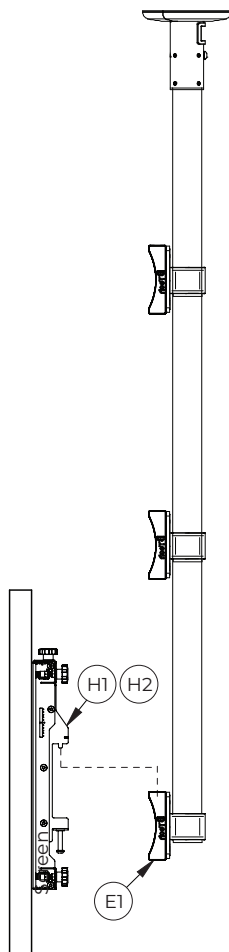
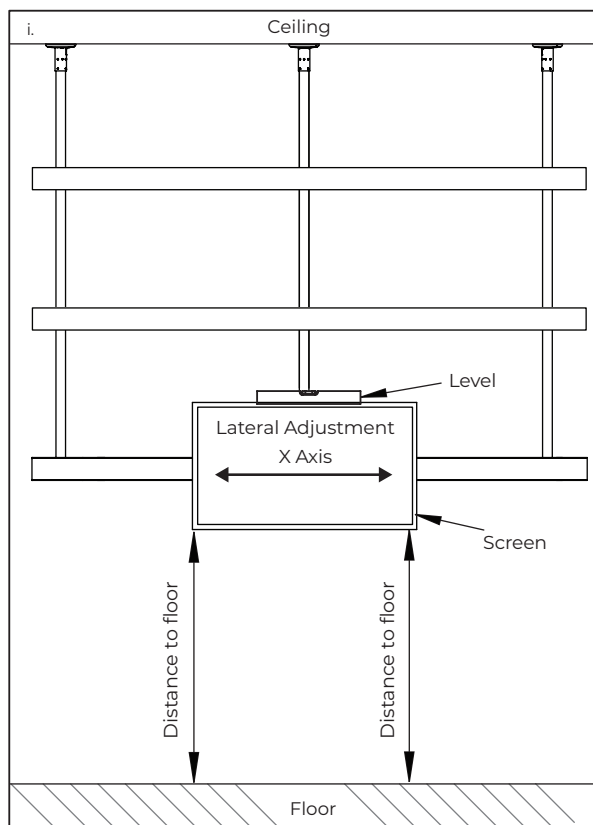
6. Hook Screen Onto Rail

- i. Hook the first screen centrally onto *item B1*.
- ii. Using a level, align the screen to the floor using the Y axis adjustment knob on *items H1 & H2**.

*Only available with Micro-adjustment arms - See page 15.

- iii. Once first screen is in position, mount the remaining screens onto the rail.

Example 3x3 Videowall Installation



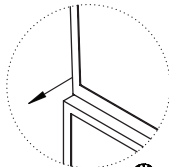
Operating Instructions

7. Hook The Remaining Screens Onto Rails

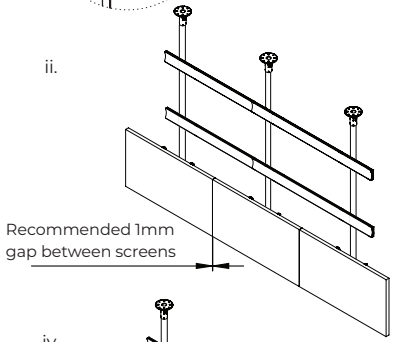
Starting from the bottom rail, hook the remaining screens onto rails using a plumb to align. After mounting each screen use the Y & Z micro-adjustment knobs on *items H1 & H2** to level and align screens.

Note: A 1mm (0.05") gap between screens should be maintained.

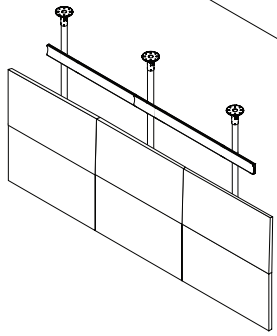
Use **Lateral adjustment**
to align sides of screens



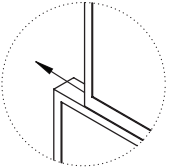
ii.



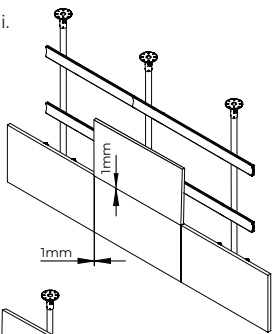
iv.



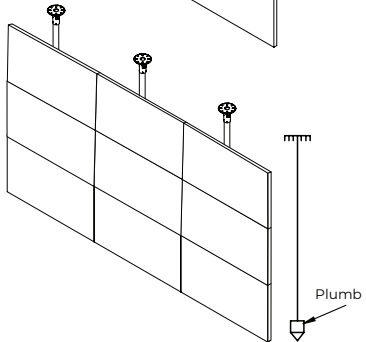
Use **Depth adjustment**
(Z axis knobs)
to align front of screens



iii.



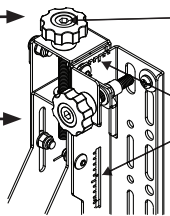
v.



*Only available when using the BT8390-VESA400MAF interface arms. To level the rows of screens using the fixed or tilt interface arms, use the height adjustment screws on top of the arms before mounting the next row of screens - see page 16

Y Axis Knob

Z Axis Knobs

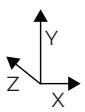


Adjustment knobs are also compatible with 6mm hex key

Adjustment lines to help with accurate Y & Z axis screen alignment

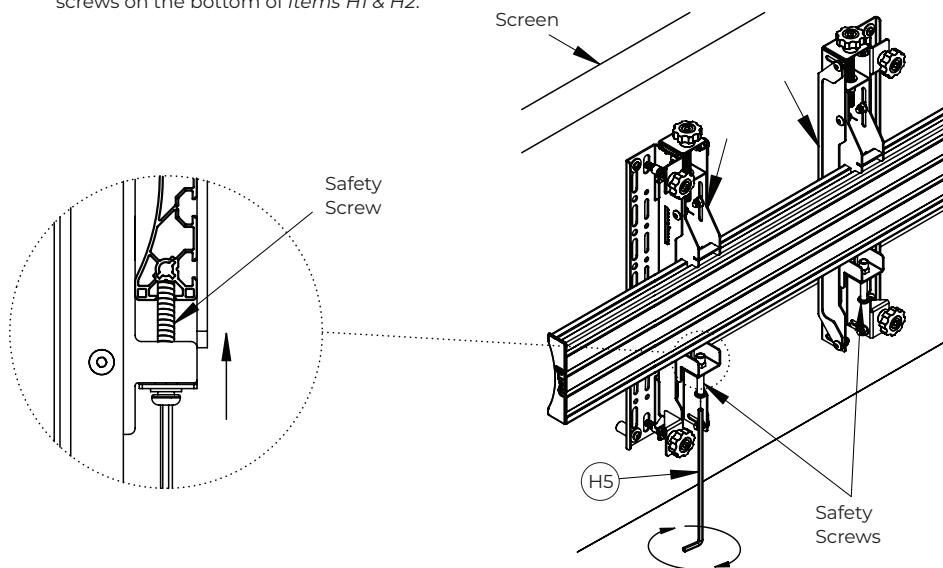
Total Y axis adjustment is +/-25mm (1")
Total Z axis adjustment is 20mm (0.8")

Note: Light pressure in the desired direction of travel will assist in the adjustment of knobs when using heavier screens



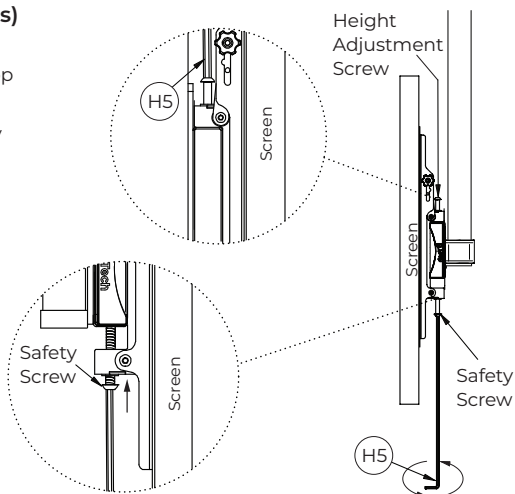
8. Secure Screens

Once screens are aligned, tighten the safety screws on the bottom of *items H1 & H2*.



Secure Screens (Fixed And Tilt Arms)

- i. Optional: Once all screens are mounted, use the height adjustment screws on top of *items H1 & H2* to level screens.
- ii. Secure screens by tightening the safety screw on the bottom of *items H1 & H2*.



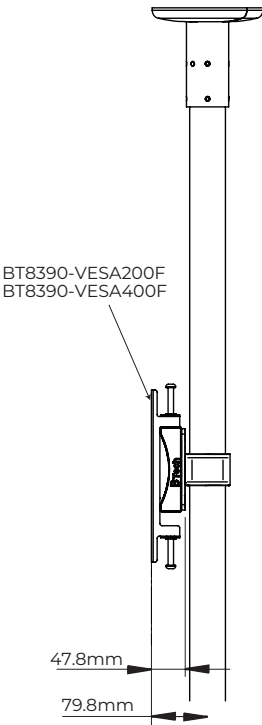
Warning! Contact a professional AV installer or other suitably qualified person for any further operation or removal of equipment after installation.

BT8342 Dimensions

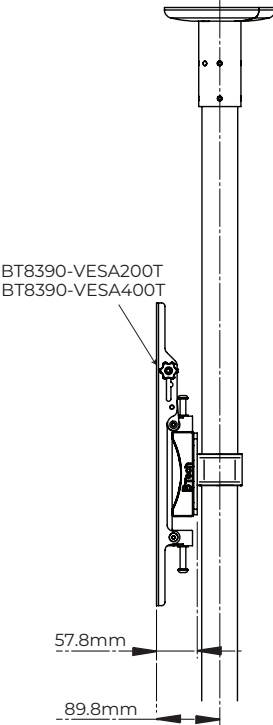
Please keep this for future reference

Depending on installation requirements, the BT8342 Ceiling Mounted Videowall Mounting Kit will feature a selection of the following products.

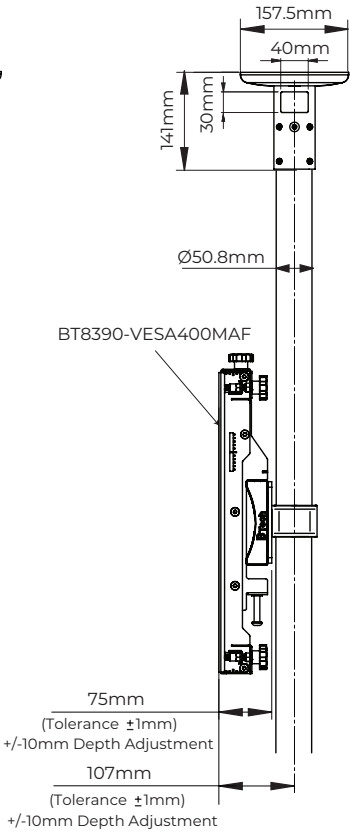
Depth Of Install Using
Fixed Interface Arms



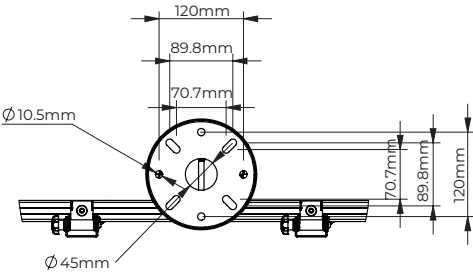
Depth Of Install Using
Interface Arms With Tilt



Depth Of Install Using
Interface Arms
With Mirco-Adjustment



Aerial View

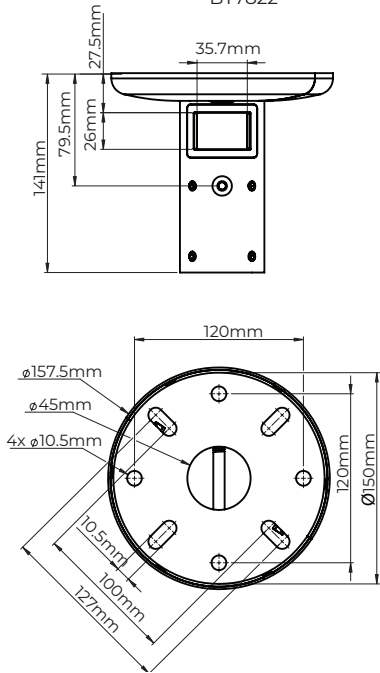


BT8342 Dimensions

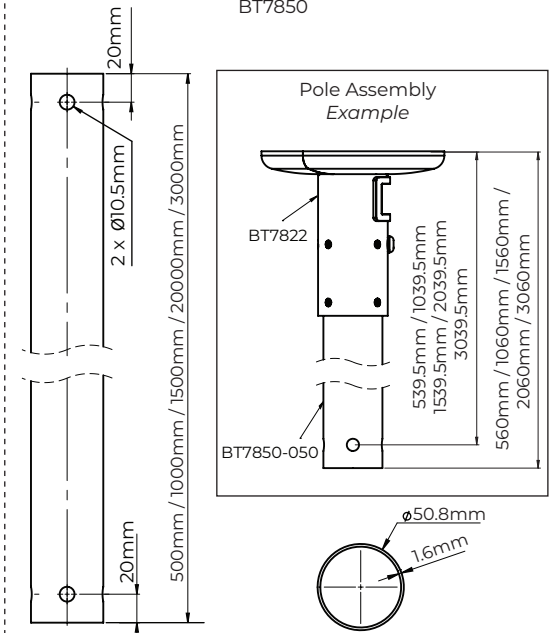
Please keep this for future reference

Depending on installation requirements, the BT8342 Ceiling Mounted Videowall Mounting Kit will feature a selection of the following products.

Ceiling Mount
BT7822

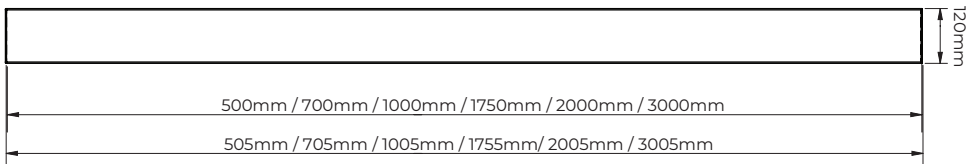


Extension Pole
BT7850



Mounting Rail
BT8390

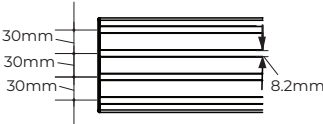
Front View



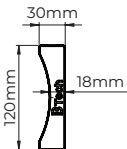
Top View



Rear View



Side View



Interface Arms

BT8390-VESA200F

Fixed VESA 200mm Interface Arms

BT8390-VESA400F

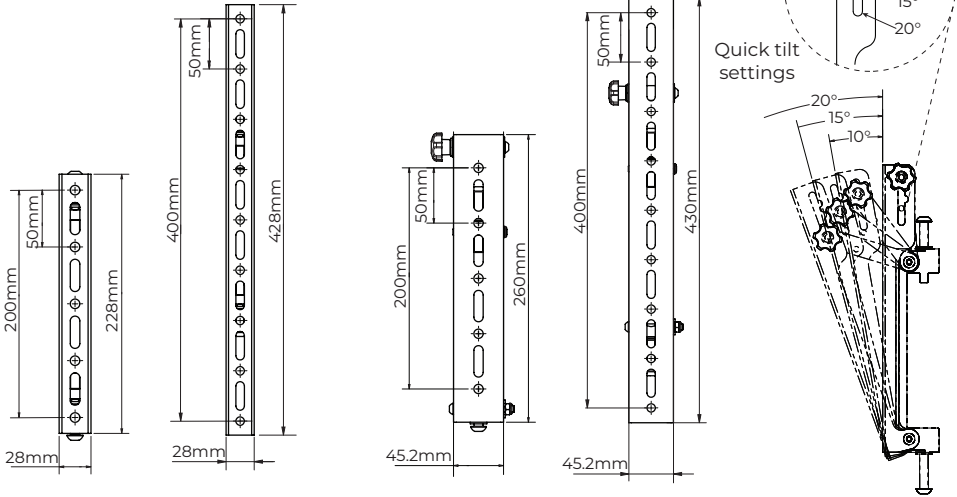
Fixed VESA 400mm Interface Arms

BT8390-VESA200T

VESA 200mm Interface Arms with Tilt

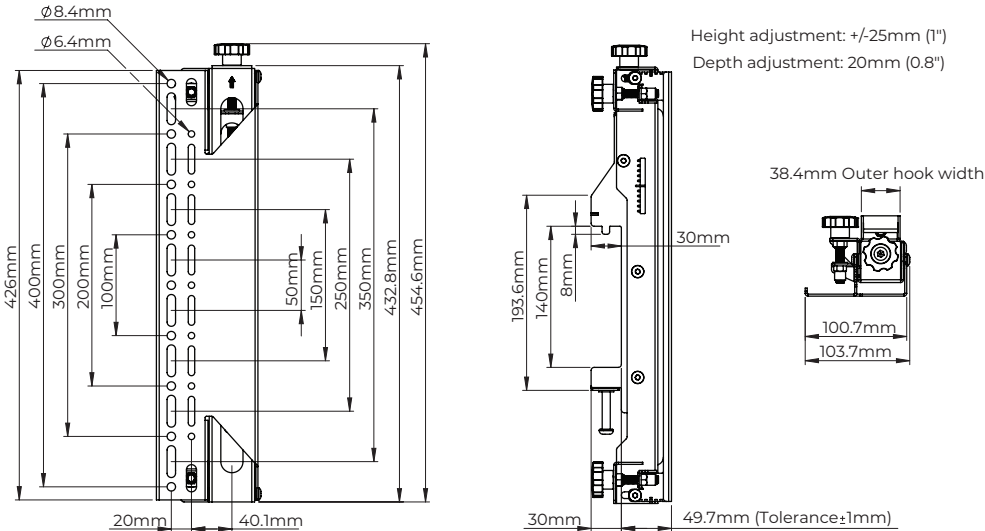
BT8390-VESA400T

VESA 400mm Interface Arms with Tilt



BT8390-VESA400MAF

Fixed VESA 400mm Interface Arms with Micro-Adjustment



BT8342

Contact: info@btechavmounts.com

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