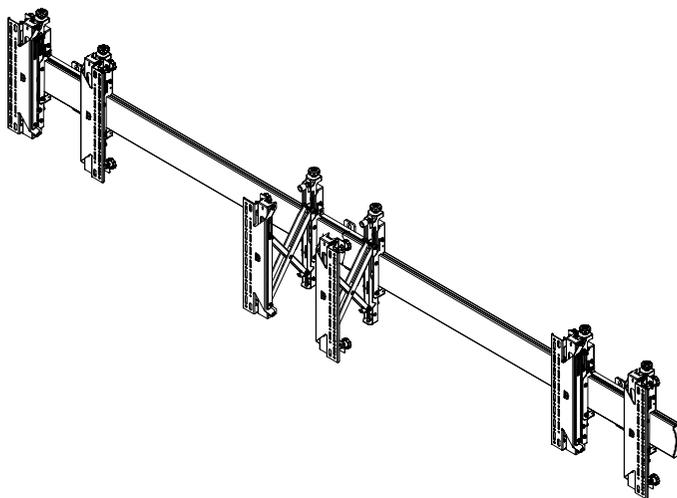**BT8331**

B Tech ®
AV Mounts

SYSTEM **X**

Universal Pop-Out Menu Board Mounting System

Installation Guide

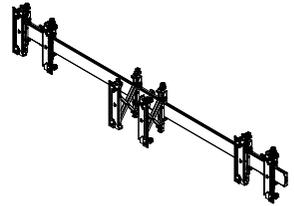

- Recommended screen size: 39"- 75"

- Max weight per screen: 50kg (110lbs)

- Features pop-in, pop-out function to allow access to the rear of screens for servicing and maintenance and to aid installation

- 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

Contents

BT8331

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 odpov ědnost za škody nebo zranění zp ůsobená nevhodnou instalací. Tento výrobek je nutno umístit do vhodné konstrukce a používat jen po uvedenou maximální výšku.

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 autrepersonne 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 personaadeguatamente 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い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 상해에 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 nieprawidowej 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 ـ تك للتجارة الدولية المحدودة بأن تجارة محترف في تركيب ال AV او شخص مؤهل تأهيلا مناسبا لتركيب هذا المنتج . بي ـ تك للتجارة الدولية، موزعيها والتجار ليست عرضة أو مسؤولة عن الأضرار أو الإصابات الناجمة عن تركيب غير سليم، والاستخدام غير السليم أو عدم مراعاة هذه التعليمات للسلامة يجب أن يتم تركيب هذا المنتج في بنية مناسبة ويجب استخدامة فقط لدعم الحد الأقصى للوزن المشار اليه.

B Tech®
AV Mounts

BT8331 **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.
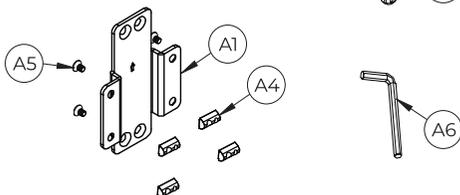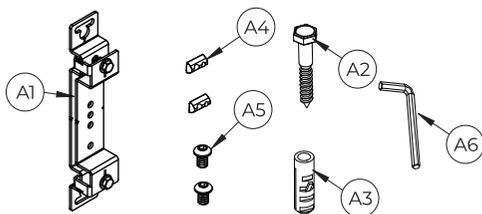
Rail Mounting Bracket

BT8390-WFK1
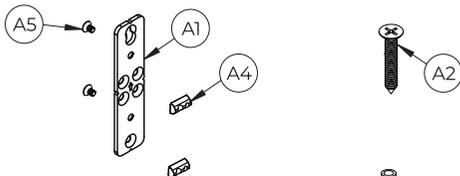
Item	Description	Qty per pack
A1	Wall Fixing Plate	1
A2	ST8 x 45mm Csk Wood Screw	2
A3	No.10 Wall Plug	2
A4	M8 Sliding Nut	2
A5	M8 x 12mm CSK Screw	2
A6	5AF Hex Key	1

BT8390-WFK2

Item	Description	Qty per pack
A1	Wall Fixing Plate	1
A2	ST8 x 45mm Csk Wood Screw	4
A3	No.10 Wall Plug	4
A4	M8 Sliding Nut	4
A5	M8 x 12mm CSK Screw	4
A6	5AF Hex Key	1

BT8390-WFK5

Item	Description	Qty per pack
A1	Adjustable Depth Fixing Plate	1
A2	M8 x 50mm Coach Screw	2
A3	No.10 Wall Plug	2
A4	M8 Sliding Nut	2
A5	M8 x 12mm CSK Screw	2
A6	5AF Hex Key	1

Mounting Rail

BT8390-050 / BT8390-070 / BT8390-100 / BT8390-150 / BT8390-175 / BT8390-200
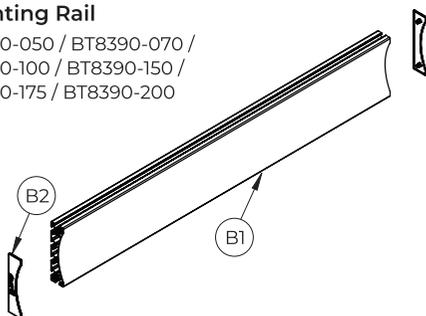
Item	Description	Qty per pack
B1	Mounting Rail	1
B2	End Cap	2

Optional
Mounting Rail Extension Kit

BT8390-EXT
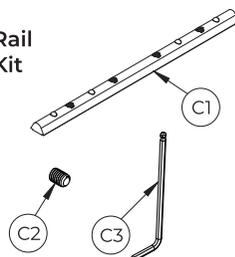
Item	Description	Qty per pack
C1	Joining Bar	6
C2	M6 x 8mm Grub Screw	24
C3	3AF Hex Key	1

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.

Interface Fixing Kit

BT8390-VESA400MAP
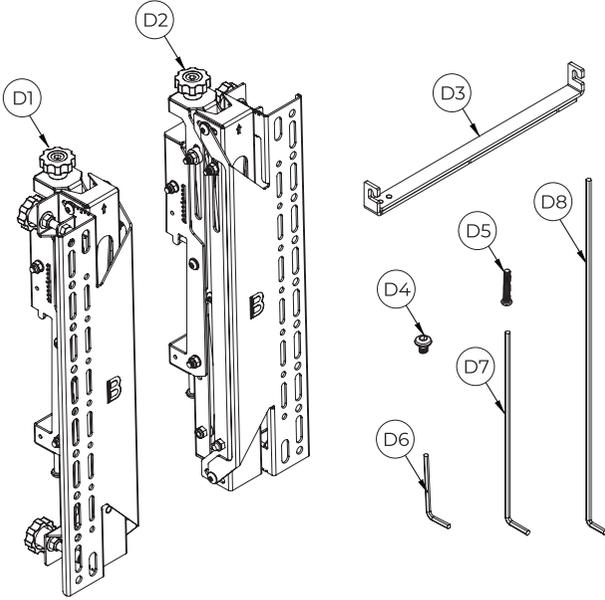
Item	Description	Qty per pack
D1	Interface Arm - Left	1
D2	Interface Arm - Right	1
D3	Adjustable Brace	1
D4	M5 x 6mm Screw	2
D5	M6 x 35mm Screw	2
D6	3AF Hex Key	1
D7	4AF Hex Key	1
D8	5AF Hex Key	1
Screen Fixings		
A	M6 x 16mm Screw	4
B	M6 x 25mm Screw	4
C	M6 x 40mm Screw	4
D	M6 Washer	4
E	M8 x 16mm Screw	4
F	M8 x 25mm Screw	4
G	M8 x 50mm Screw	4
H	5mm Spacer	4
I	15mm Spacer	4
J	25mm Spacer	4

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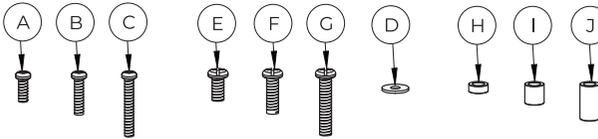
Suitable for loads up to 50kg (110lbs) per screen

50kg [110lbs]

Optional **Interface Adaptor Arms**

BT7564 / BT7565
VESA 600mm / VESA 800 & 900mm
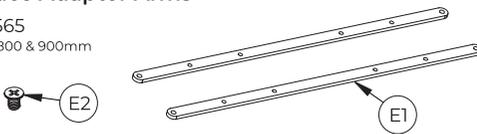
Item	Description	Qty per pack
E1	Adaptor Arms	2
E2	M8 x 12mm Screw	4

Optional
Accessory Mounting Arm

BT8390-SA
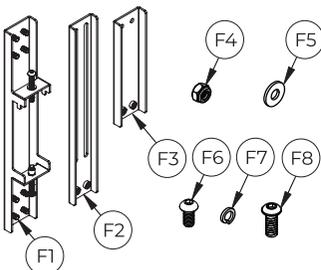
Item	Description	Qty per pack
F1	Hook On Arm	1
F2	Long Extension Arm	1
F3	Short Extension Arm	1
F4	Nut	4
F5	Washer	4
F6	M8 X 16mm Screw	4
F7	Spring Washer	4
F8	M8 x 20mm Screw	2

Optional
Shelf

BT7863
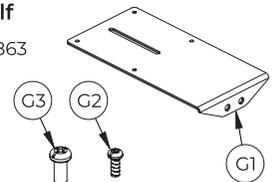
Item	Description	Qty per pack
G1	VC Shelf	1
G2	M4 x 10mm Screw	4
G3	UNC 1/4" x 1/2" Screw	1

Please refer to individual parts list for more information

B Tech
AV Mounts

Typical Installations

**2 x 1 Menu Board Installation
with VESA 400 Micro-Adjustment Pop-Out Arms**
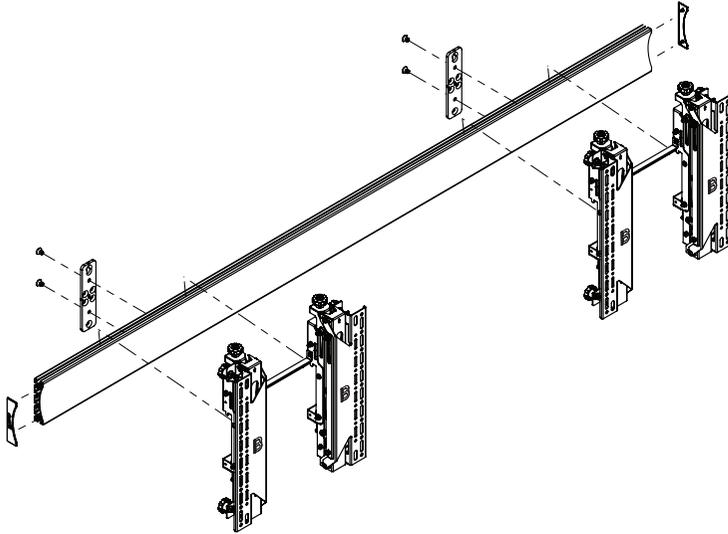
Installation Tools Required

Drill
10mm (7/16") masonry bit
or 4mm (5/32") wood bit
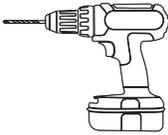
Pencil   Screwdriver

Stud Finder
(Optional)

Level

Recess Mounting

Note: Depth dimensions may change if different wall brackets are used.

Screen height + 2mm (0.8")
(minimum)

Screen width + 2mm (0.8")
(minimum)

Wall

Recess

Depth of recess:
(Screen Depth + 105mm (4.15")
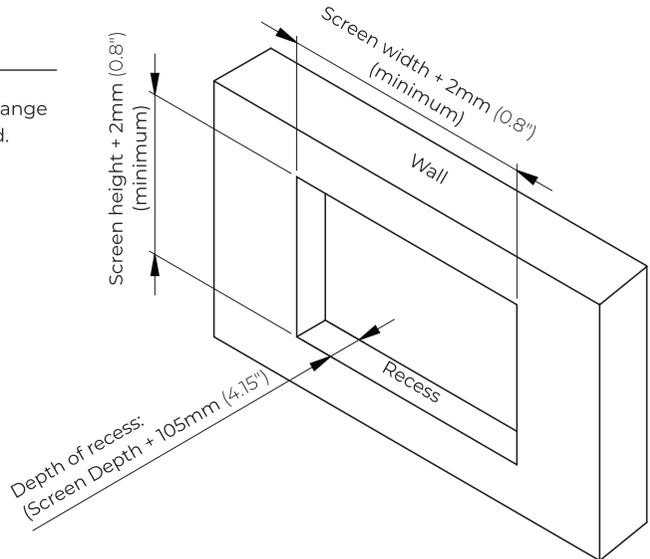
***Note:** Add 6mm to depth if VESA adaptor arms *(item E1)* are used.

Optional **Extending The Mounting Rail**

Combining Mounting Rails

i.   On the back, top and bottom* of *item B1*, insert *item C1* halfway into each channel.

ii. On each joining bar, loosely fasten *item C2* fixing it to the mounting rail.

iii. Slide the second rail (*item B1)* onto *item C1* and tighten all *items C2*, combining the rails securely.

Joining Bar Assembly

*Note: If hooking a screen interface arm *(item D1 or D2)* or an accessory mounting arm *(item F1)* over the rail join, do not place a joining bar *(item C1)* in the top or bottom channels.

Top channel

B1 C1

C2

Front Back

Bottom channel

BT8390 Mounting Rail

BT8390-EXT

BT8390 Mounting Rail

B1

B1

C1

C2

C3

C2
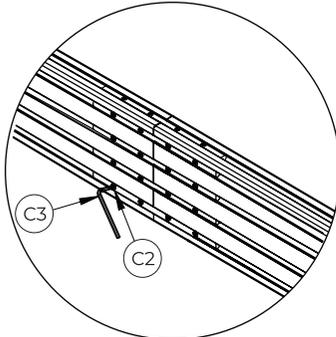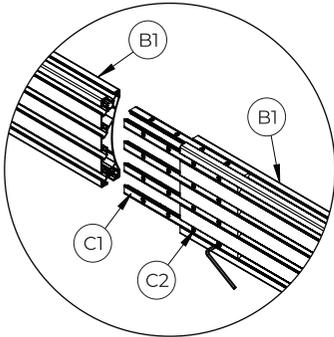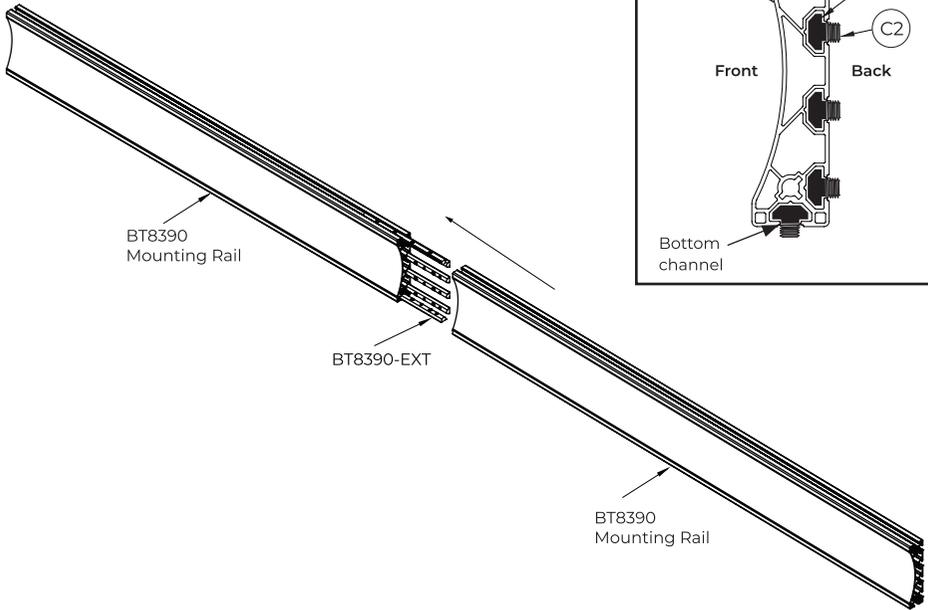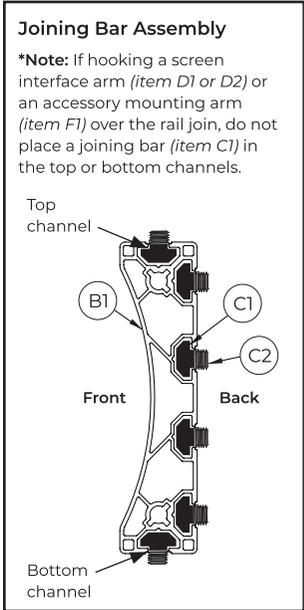
*Note: Wall fixing brackets (BT8390-WFK) cannot be installed directly behind a rail joining kit (BT8390-EXT)

B Tech
AV Mounts

Installation Instructions

1. **Insert M8 Sliding Nuts Into Mounting Rail**

a i. BT8390-WFK1 / BT8390-WFK5 assembly.
For each *item A1* to be fitted onto the rail,
insert 2x *item A4* into *item B1*. 1x in the top
channel and 1x in the bottom channel.

b i. BT8390-WFK2 assembly. For each *item A1*
to be fitted, insert 4x *item A4* into *item B1*.
2x in the second from top channel and 2x
in the bottom channel.

B1

a. BT8390-WFK1 / BT8390-WFK5
Assembly

A4

b. BT8390-WFK2 Assembly

B1

A4

A4

B1

A4

B Tech
AV Mounts
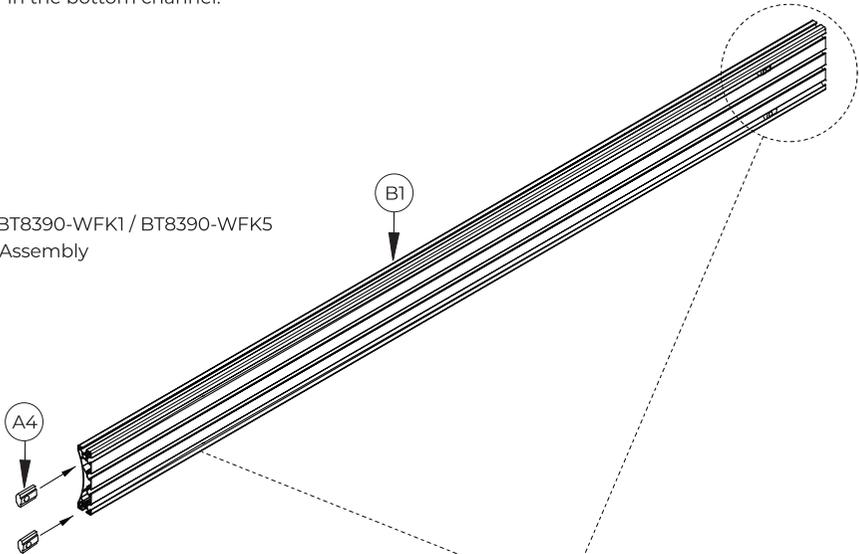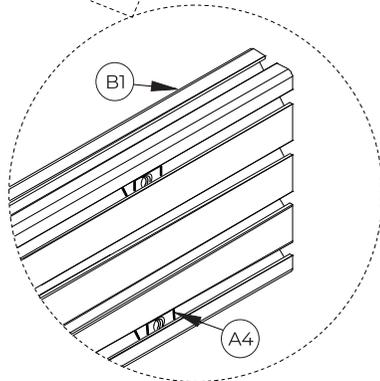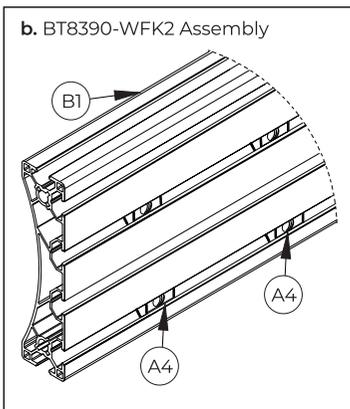
a. BT8390-WFK1

Attach Wall Fixing Kit To Mounting Rail

ii. Attach *item A1* to *item B1* by fastening *item A5* into *item A4*.

BT8390-WFK1

Back

B1

A5

A6

A4

A1

BT8390-WFK1

A1

A5
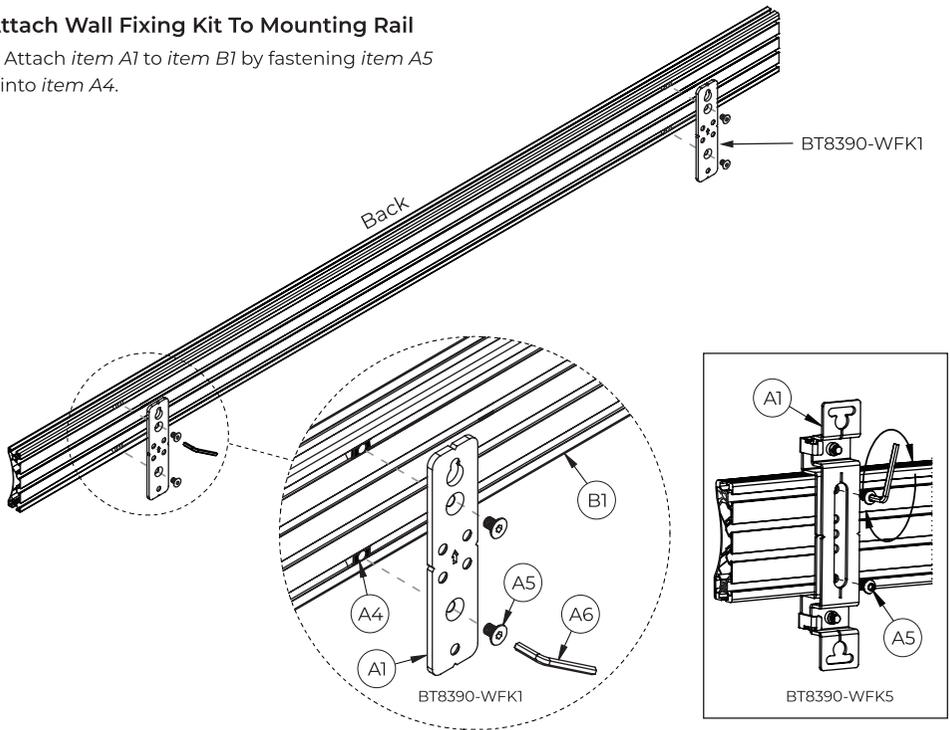
BT8390-WFK5

Required quantity of Rail Fixing Brackets *(item A1)*

2pcs for 0 - 2000mm (0 - 79")
3pcs for 2100mm - 3500mm (80" - 139")
4pcs for 3600mm - 6000mm (140" - 239")
5pcs for 6100mm - 8000mm (240" - 319")
6pcs for 8100mm - 10000mm (320" - 400")

A1

BT8390-WFK1	BT8390-WFK2	BT8390-WFK5
Depth 35mm (1.38")	Depth 49mm (1.93")	Adjustable Depth 38-48mm (1.5-1.93")

B Tech AV Mounts

b. BT8390-WFK2

A4

BT8390-WFK2

Back

B1

A4

A1

A6

A5

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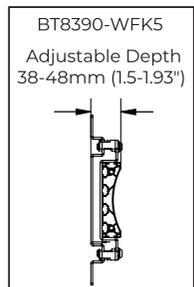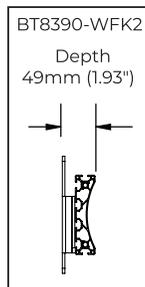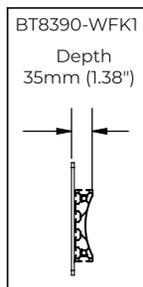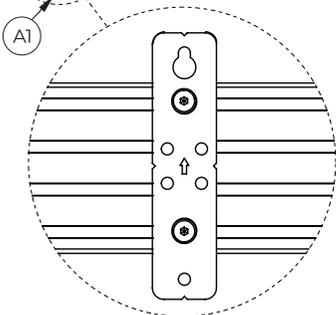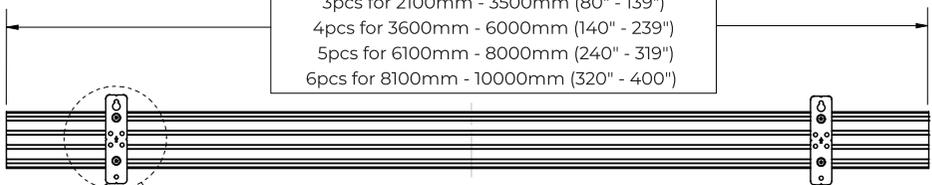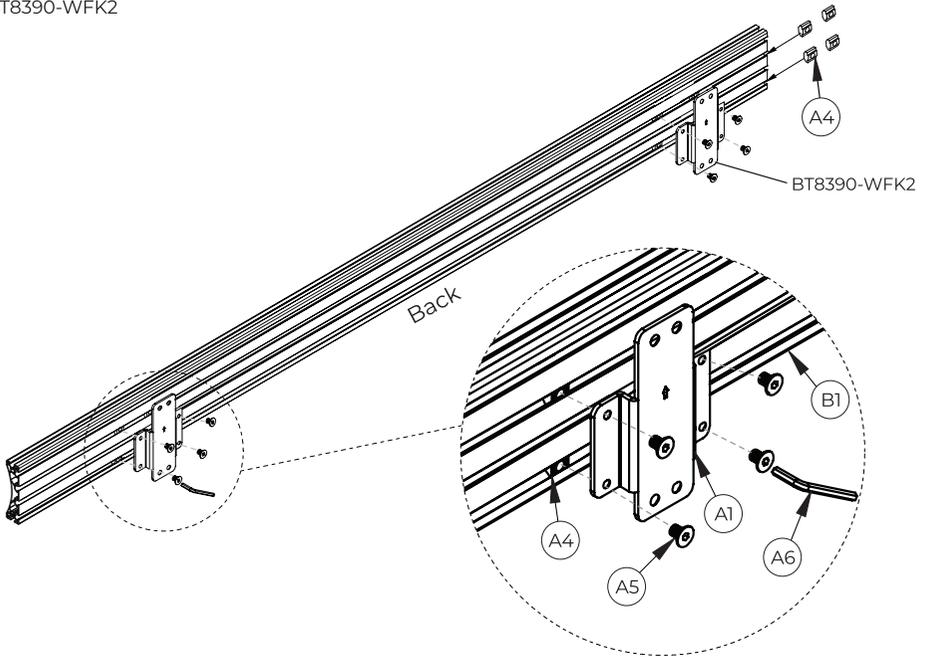
c. BT8390-WFK5

Attach Wall Fixing Kit To Mounting Rail

i. Insert 1x *item A4* into the top and bottom channels of *item B1*.

ii. Attach *item A1* to *item B1* using *item A5*.

A1

Adjustment Guides

A6

A4

A5

BT8390-WFK5

BTech
AV Mounts
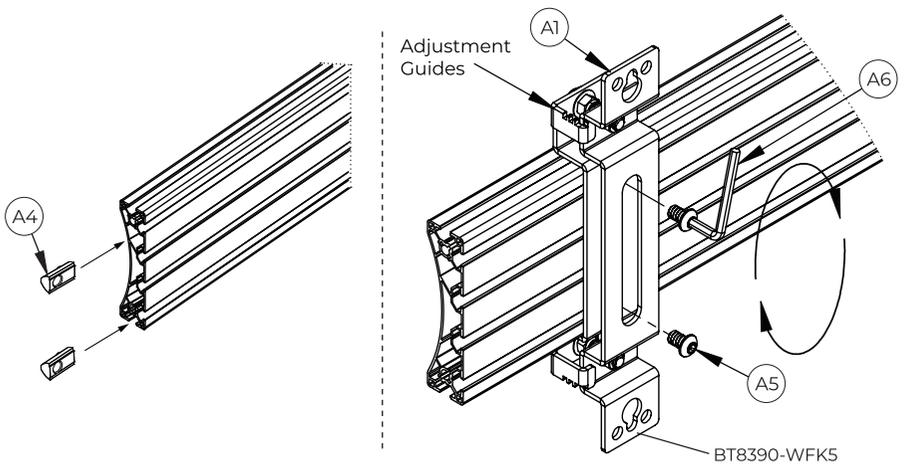
2. Fix Mounting Rail To The Wall

i. Mark and drill two fixing holes for each wall plate (*item A1*) assembled.

ii. Insert *item A2* into the top hole, *do not fully tighten* - allow a gap (approx. 10mm) to hook on *item A1*.

a. BT8390-WFK1 - Keyhole Fixing

10mm (0.4")
(approx)

b. BT8390-WFK2 - Wall Mounting

A1
A3
A2
B1

22.5mm [0.89in]
[0.33in]
8.4mm
[0.63in]
16mm
[0.55in]
14mm
93mm [3.66in]
158mm [6.22in]
WFK1
[0.33in]
8.4mm

A3
A2
Wall
158mm (6.22")

10mm
Masonry Bit
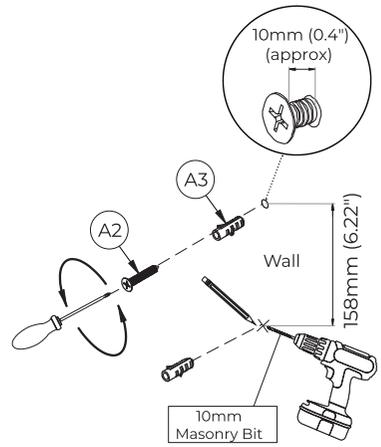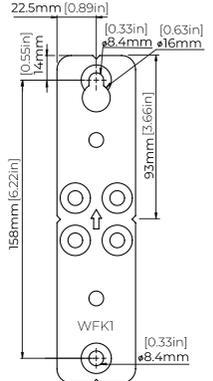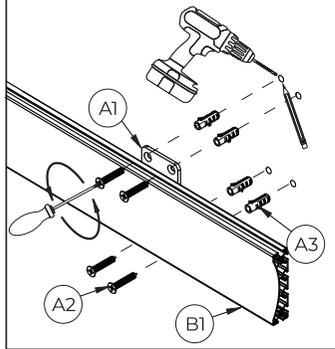
Note: *item A3* note required for mounting onto wooden studs.

iii. Hook *items A1 / B1* onto *item A2*.

c. BT8390-WFK5 - Levelling

A1
13mm
Spanner

+/-5mm
Depth
Adjustment
Screws

Level

Note: Use adjustment guides to help align rail

Level
B1
A1
A2
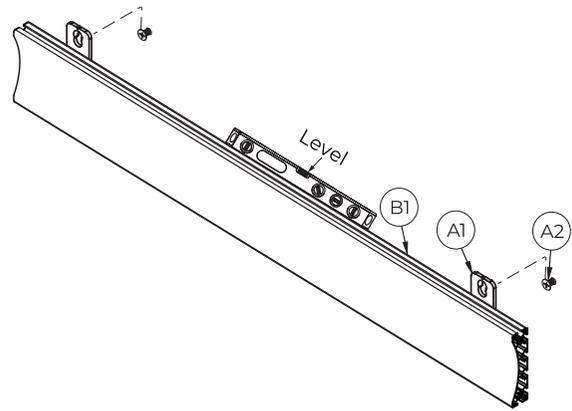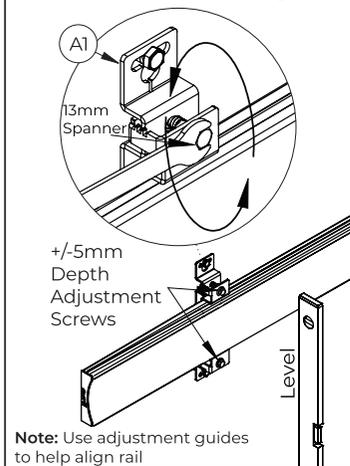
iv. Add *item A2* into the bottom holes of *item A1* and tighten all fixings.

v. Fit *item B2* to the ends of *item B1*.

A2

A2
B1
B2

B Tech
AV Mounts
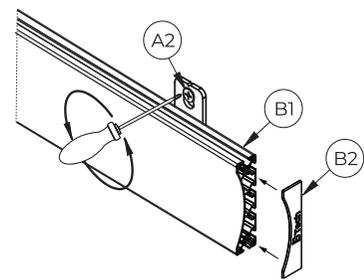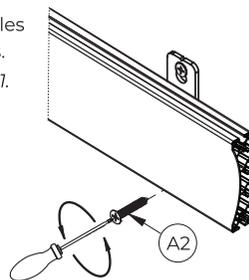
3. Fix Interface Arms To Screen

Fix *items D1 & D2* to the back of the screen using the screen fixing kit *(items A - J)*.

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

D2

A-G

D1

D

Top

Bottom

Screen

Screen Recess

Note: Use *items H, I, J* for screens with recessed fixings

H-J
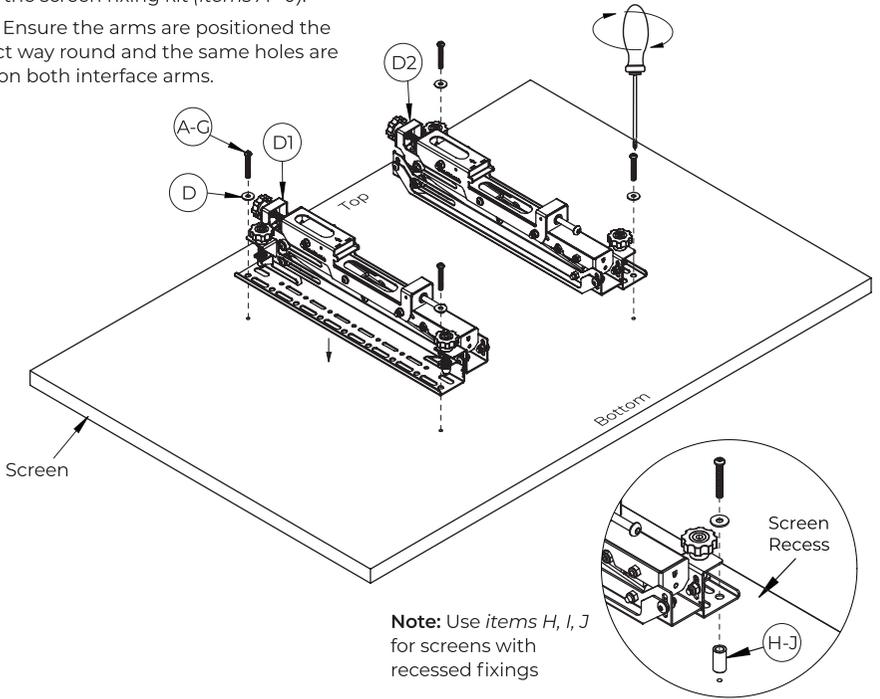
Optional **600mm VESA Adaptor Arms**

Attach Adaptor Arms To Interface Arms

i. Use *item E2* to fix *item E1* to *items D1 & D2*.

ii. Attach *item E1* to the screen using the screen fixing kit *(items A - J)*.

Note: Portrait mounting assembly shown.

D2

E2

D1

E1

E1

E1

A-G

Top

E1

Bottom

Screen
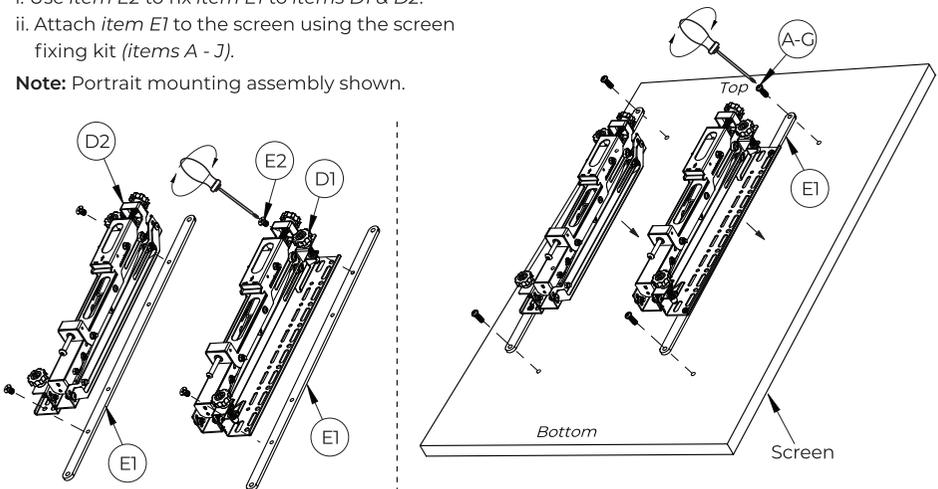
4. Connect Interface Arms With The Adjustable Brace

Note: *Item D3* only to be used for horizontal VESA fixings from 400 - 600mm (15.75" - 23.62").

i. Extend *item D3* and fix at desired length by tightening the 2 screws using *item D6*.

The 3 notches show the position for interface fixings at 400mm, 500mm and 600mm.

D3

For screens with interface holes 600mm apart, extend *item D3* to the 600 settting.

600

Extension Screws

D6
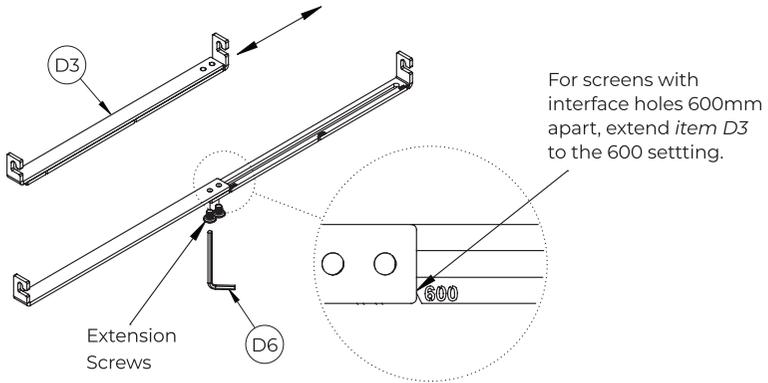
ii. Fix *item 3* to *items D1 & D2* using *item D6* to allow for easy lateral adjustment.

D4

D6

D4

D1

D3

D2

Distance between interface holes

D4

D3

B Tech
AV Mounts
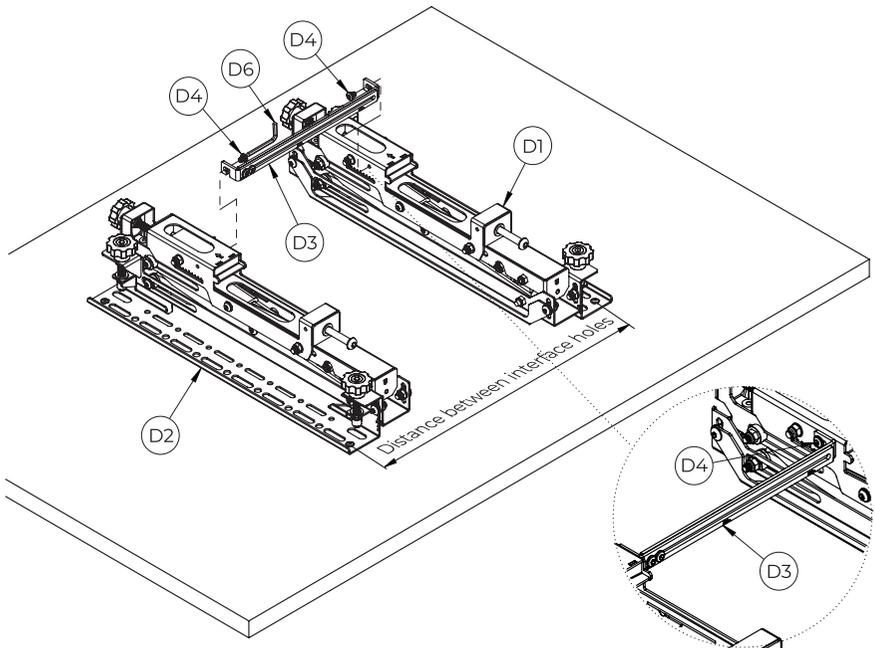
5. Mount Screen Onto Rail

Hook the first screen centrally onto *item B1*.

Screen D1 D2 Wall

B1

Screen Wall

B1
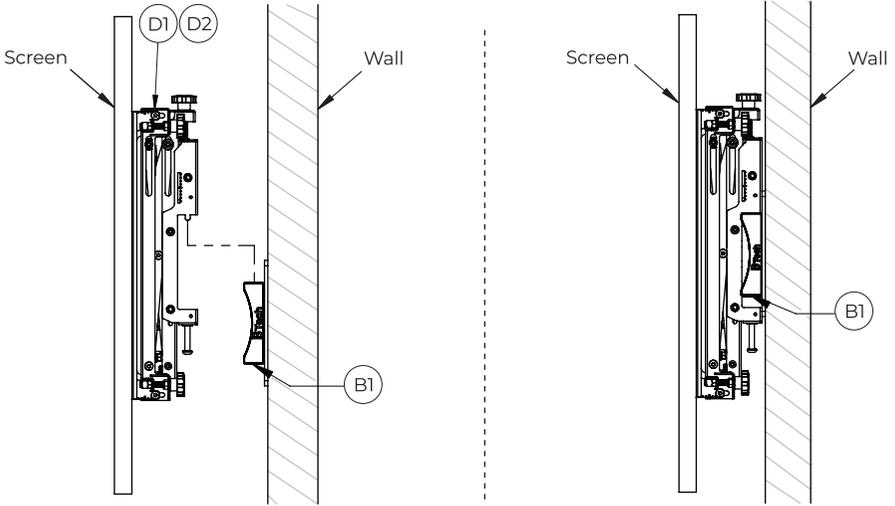
6. Align First Screen

i. Lateral Adjustment

Slide arms along the rail to laterally adjust screen to desired position.

Screen

B1

Lateral Adjustment

B Tech
AV Mounts
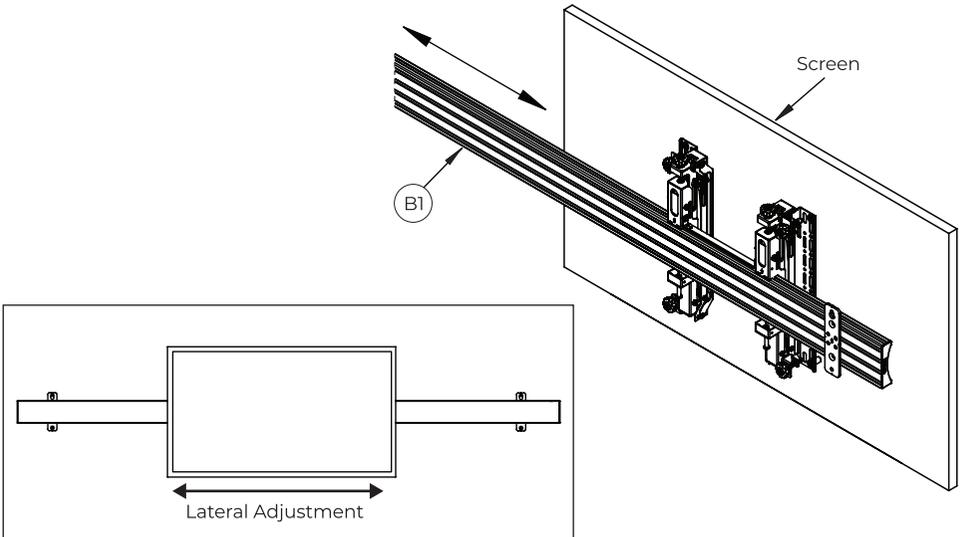
ii. Height Adjustment (+/-20mm)

Ensure the screen is level and parallel to floor using the height adjustment hand wheels on the interface arms.

Height Adjustment Hand Wheel compatible with a 6mm hex key *(not supplied)*

Height adjustment guides to help with accurate screen alignment
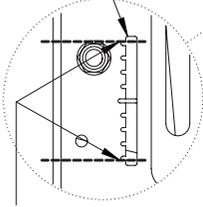
Do not adjust height past the min and max guide lines

Screen

Level

Distance to floor

Distance to floor

Floor
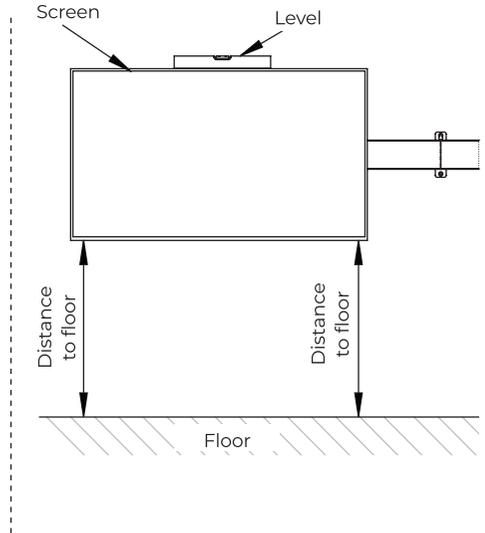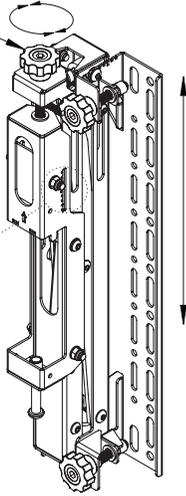
iii. Depth Adjustment (+/-10mm)

Ensure the screen corners are equidistant from the wall using the depth adjustment hand wheels on the interface arms.

Depth adjustment guides to help with accurate screen alignment
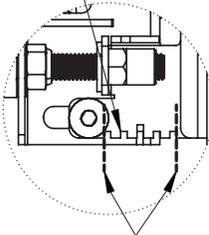
Do not adjust depth past the min and max guide lines

Depth Adjustment Hand Wheels compatible with a 6mm hex key *(not supplied)*

Distance to wall

Wall

Screen

Distance to wall

B Tech
AV Mounts
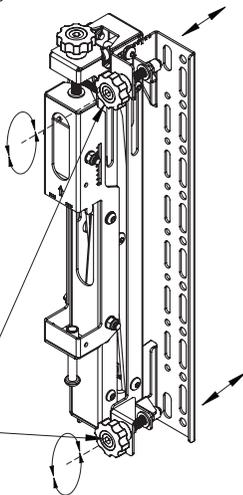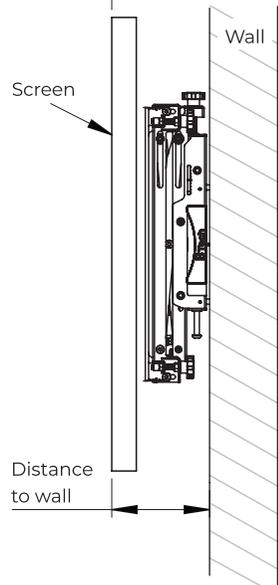
7. Add Remaining Screens To The Menu Board

Hook on remaining screens. Use the micro-adjust-ments to ensure screens are aligned *(see Step 6)*. During installation, pop screens out for easy access to adjustment hand wheels *(see Step 9)*.

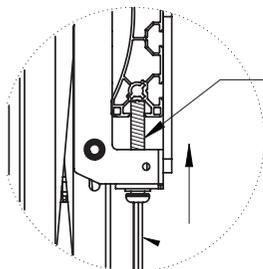Use **Height Adjustment** to align bottom/top of screens
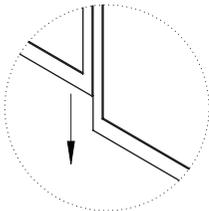
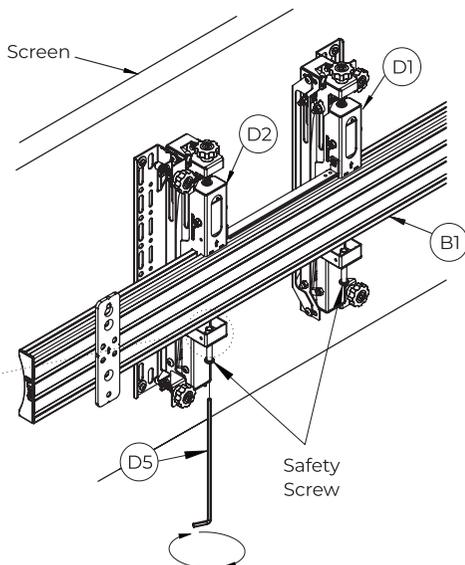Use **Depth Adjustment** to align front of screens

1mm gap between screens

Wall

Screens

Pop-out screens for easy access to adjustment hand wheels *(see Step 9).*
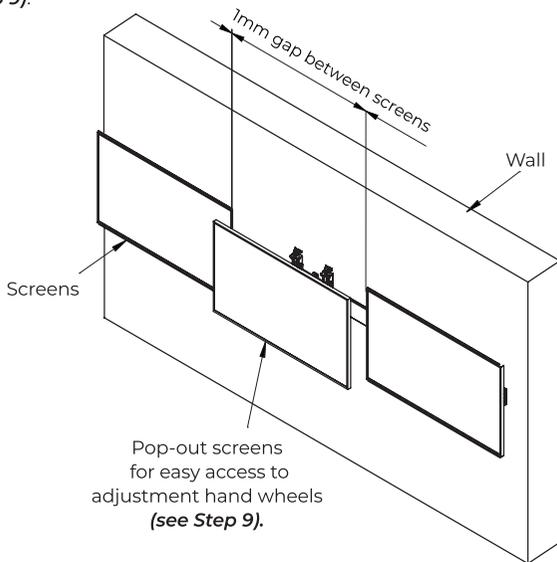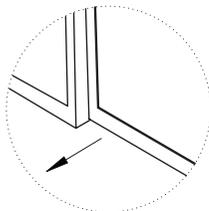
8. Secure Interface Arms To Mounting Rails

Tighten the safety screws on the bottom of *items D1 & D2* into *item B1*.

Screen

D1

D2

B1

Safety Screw Engaged

D5

Safety Screw

Operating Instructions

9. Servicing Screens

Note: Ensure pop-out function is not disabled (see below).

Push centrally at the left and right of the screen to pop-out the mount.
After servicing, push screen back and click into original position.
The screen will rest in the 'open' position for servicing.

Warning! Be careful not to damage screen when pushing. Keep hold of screen as it moves outwards.

Screen

Items D1 & D2 popped-out

Push

Push

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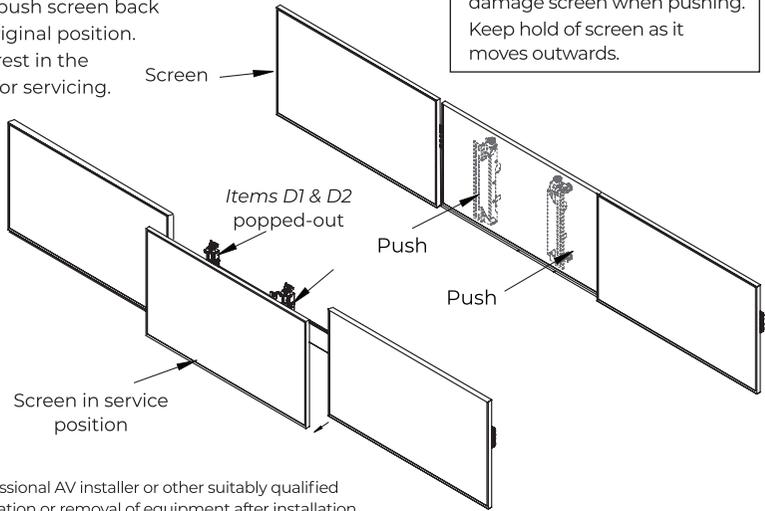
Warning! Contact a professional AV installer or other suitably qualified person for any further operation or removal of equipment after installation

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Optional **Disabling Pop-Out Function**

To prevent interface arms from popping out, fully insert and tighten *item D5* at the padlock* symbol located at the bottom of *items D1 & D2*.
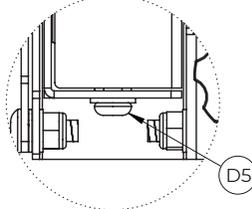
D2

D1

Unlocked Position

Unlocked position 20mm (0.8")

D5
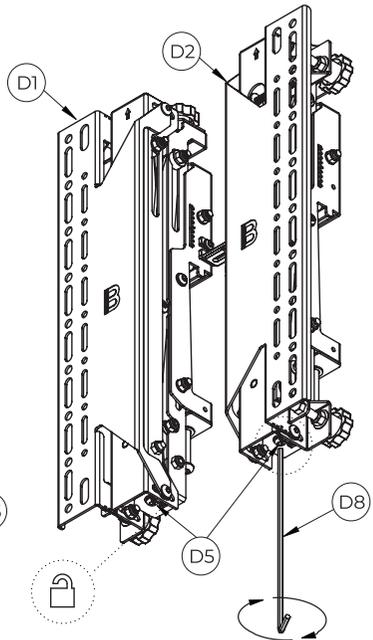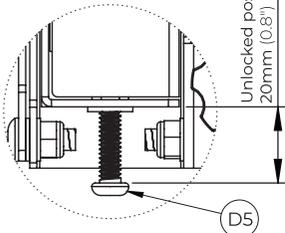
Locked Position
Item D5 fully inserted

D5

D5

D8

Important
Do not fully insert *item D5* when interface arms are popped out.

BTech
AV Mounts

Optional **Component Accessories**

Installing A Camera Shelf

i. Attach *item F2* to *item F1* using *items F4 & F5*.
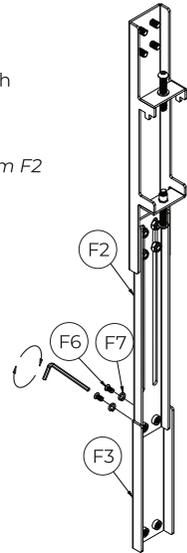ii. Attach *item G1* to *item F2* using *items F6 & F7*.

Note: Assemble accessory arm onto the mounting rail before mounting screens to rail.

Assembly shown for mounting the shelf below the rail / screens.

F1

F5
F4

F2

G1

F6
F7

13mm Spanner

Optional **Add Extension Bar**

i. For an extended reach attach *item F3* onto *item F2*.

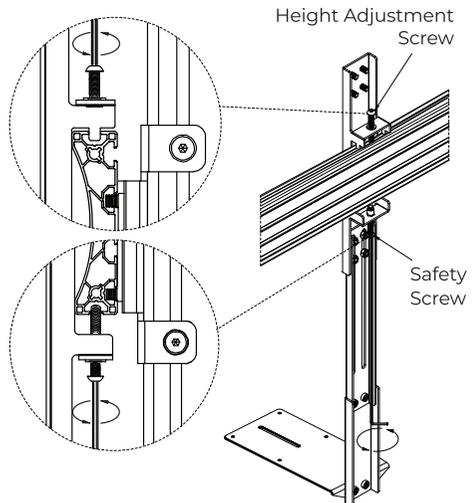ii. Attach *item G1* to *item F2* using *items F6 & F7*.

F2

F6 F7

F3

---

iii. Hook *item F1* onto *item B*1.

F1

B1
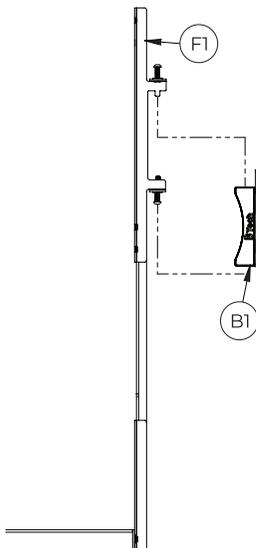
iv. Secure shelf to rail.
Optional: Level the shelf bracket by using height adjustment screw on *item F1*.
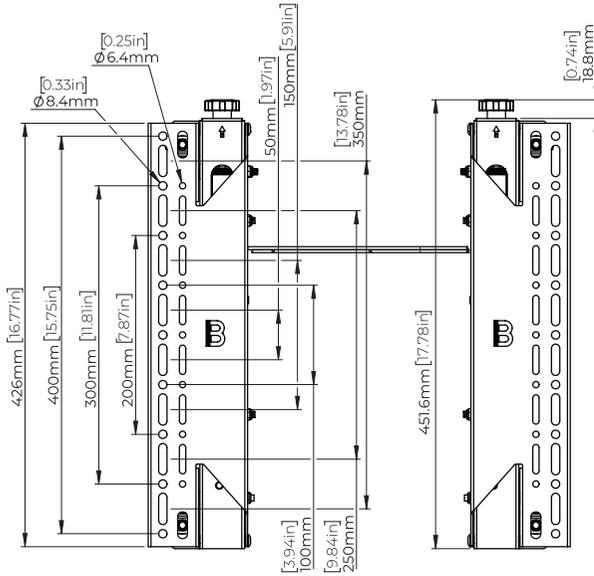Use the safety screw underneath the hook arm to secure the shelf bracket to rail.

Height Adjustment Screw

Safety Screw

v. Use *items G2 & G3* to fix a camera to *item G1*.

B Tech
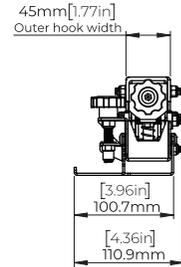AV Mounts

BT8331 Dimensions

Please keep this for future reference

Depending on installation requirements, the BT8331 Menu Board Wall Mounting Kit will feature a selection of the following products.
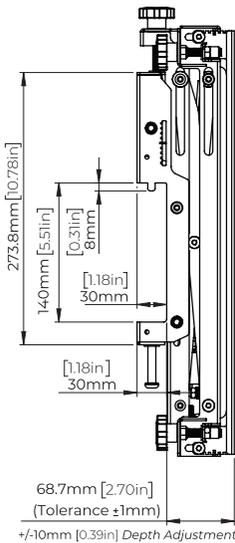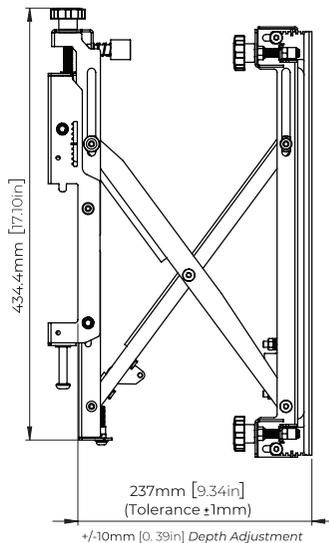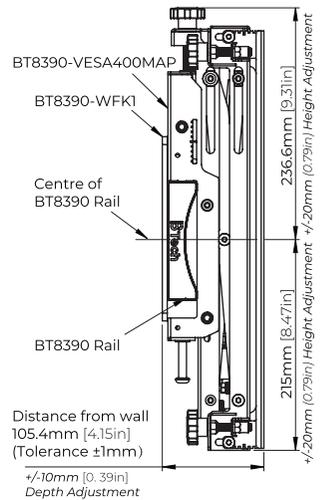
Front View

[0.25in] Ø6.4mm
[0.33in] Ø8.4mm
[0.74in] 18.8mm
50mm [1.97in]
150mm [5.9in]
350mm [13.78in]
426mm [16.77in]
400mm [15.75in]
300mm [11.8in]
200mm [7.87in]
451.6mm [17.78in]
100mm [3.94in]
250mm [9.84in]

Top View

45mm [1.77in]
Outer hook width

100.7mm [3.96in]
110.9mm [4.36in]

Side View - Closed

273.8mm [10.78in]
140mm [5.51in]
8mm [0.31in]
30mm [1.18in]
30mm [1.18in]

68.7mm [2.70in]
(Tolerance ±1mm)

+/-10mm [0.39in] Depth Adjustment

Side View - Open

434.4mm [17.10in]

237mm [9.34in]
(Tolerance ±1mm)

+/-10mm [0. 39in] Depth Adjustment

Wall Mounted using BT8390-WFK1 Wall Plate

BT8390-VESA400MAP
BT8390-WFK1
Centre of BT8390 Rail
BT8390 Rail

Distance from wall
105.4mm [4.15in]
(Tolerance ±1mm)

+/-10mm [0. 39in] Depth Adjustment

236.6mm [9.31in] +/-20mm (0.79in) Height Adjustment
215mm [8.47in] +/-20mm (0.79in) Height Adjustment

These instructions are intended as a guide only and B-Tech accepts no liability for the accuracy of the information contained in this document.

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AMA-BT8331-V3-0725-BTECH   Made in the P.R.C.