

# ICW VT21 INSTALLATION

ICWUSA.com, Inc.

If you have any questions please call Toll Free 1-800-558-4435



**VTTM  
Tandem Arm**  
Uses Ball VESA



**VT21**  
Uses Ball VESA



**VTLP  
Low Profile**  
Uses Flat VESA



**VT21HDMR  
(Dual Monitors)**  
Uses Ball VESA



**VT21-KUS**  
Uses Ball VESA

► **MAXIMUM LOAD CAPACITY**  
VTTM / VT21 / VTLP: 10-25 LBS (4.5-11.3 KG)  
VT21HDMR: 20-35 LBS (9.1-15.9 KG)

All models are available with  
Flip-up Keyboard Tray or WorkSurface Tray.

**VIDEO: Installation**  
<https://youtu.be/PJwD1749kQc>

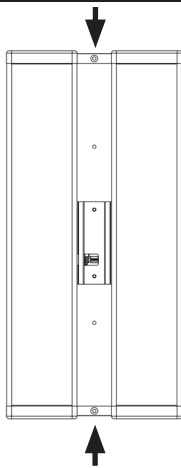
**VIDEO: Wire Management**  
<https://youtu.be/wBgJh0AiDMI>

**WARNING:** VT21 is spring loaded. Use caution when raising and lowering the carriage until the unit is mounted with the monitor and keyboard and the spring has been properly adjusted.

## VTTM ONLY - MOUNTING TO WALL OR WALL TRACK

For VTTM Tandem Arm installation, first refer to the instructions on Page 5.

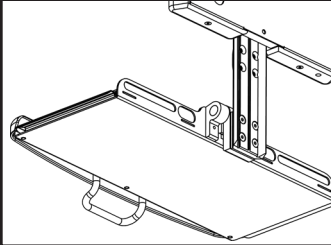
## VT, VTLP & VT21HDMR - MOUNT MAIN ASSEMBLY



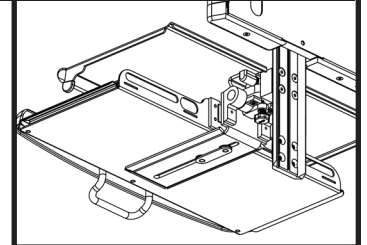
Locate the wall stud and mark the top hole. Using a level, mark the lower hole. Drill 11/64 pilot holes and insert #14 screws through the front of main assembly and tighten.

**NOTE:** #14 Wood screws are supplied with unit. If installing into **metal studs**, you will need to replace these with proper metal stud fasteners. All hardware used to secure track mount must have a proper countersunk head.

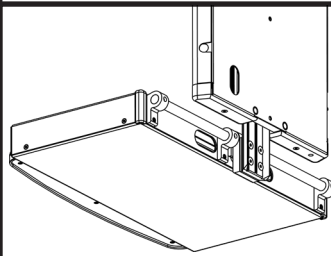
## KEYBOARD INSTALLATION



KUB Keyboard Tray uses four screws to attach either the top or bottom four holes.



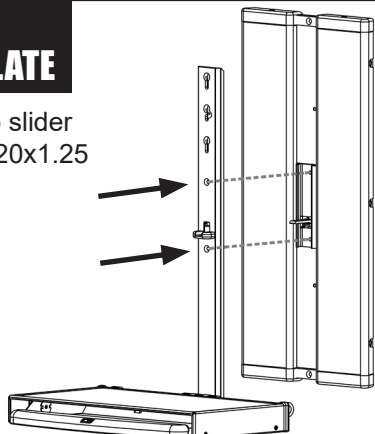
KUS Keyboard Tray uses four screws to attach to upper four holes.



KUW Keyboard Tray uses four screws to attach to lower four holes.

## ALL MODELS - ATTACH FACE PLATE

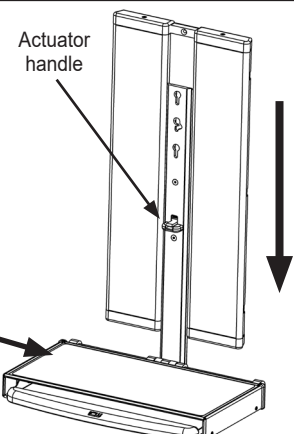
Attach face plate to slider assembly with .25-20x1.25 flat head screws.



## LOWER KEYBOARD

Use actuator handle to lower keyboard downward so keyboard just clears bottom of unit. Top of keyboard should be 1 to 2" below unit.

Lay monitor face down on top of keyboard tray.



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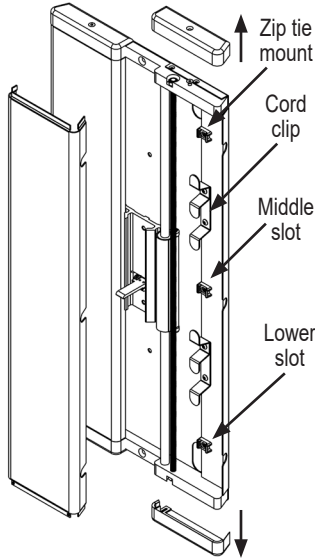
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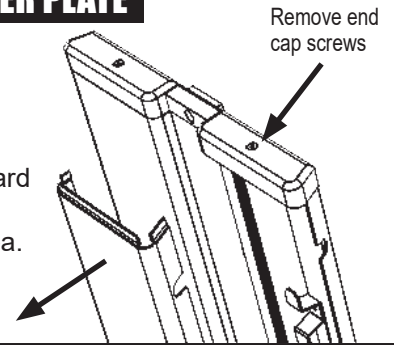
## WIRE MANAGEMENT

- While monitor is face down on the keyboard tray, plug wires into monitor and keyboard.
- Gather wires and insert into split wire loom. Wrap excess wire onto cord clips.
- Insert monitor wire loom into middle slot of main assembly.
- Insert keyboard wire loom into lower slot.
- Secure wire loom with provided zip ties.



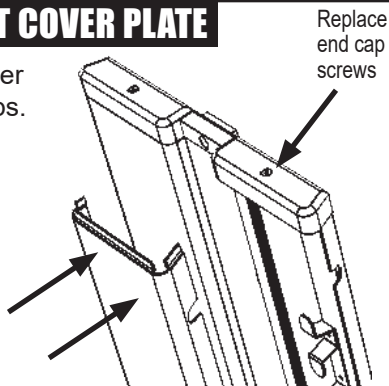
## REMOVE RIGHT COVER PLATE

- Remove both top and bottom end caps.
- Grasp inside edge of RIGHT SIDE cover plate and rotate outward to remove, exposing wire management area.
- DO NOT remove left side cover plate.



## REPLACE RIGHT COVER PLATE

Replace right cover plate and end caps.



Wire management showing split wire loom.



Wire management when stowed.

## CLEANING OF THE ICW MOUNTING DEVICE

When cleaning your ICW mounting unit please follow the points below. Proper cleaning of the mounting device will help assure proper function and extend the life of the unit.

1. Any general cleaner is acceptable except degreasers are not recommended near the bearing entrances.
2. Spray cleaner or water on a soft cloth or paper towel and then wipe down the mounts.
3. Do not spray directly at the bearing seams (located at all swivel points) as this could reduce the life of the bearings.

NOTICE: ICWUSA.COM, Inc. provides the appropriate hardware fasteners to match the majority if not all standard monitors and devices. It is the responsibility of the installer / integrator to ensure that the screws and fasteners have the adequate thread engagement. The rule of thumb is that the thread depth is greater than the diameter of the hole or 4 full turns of 360 degrees of thread engagement. It is also the responsibility of the installer / integrator to ensure that they do not damage the monitor or device by using a screw or fastener that is too long for hole and therefore damaging the unit by inserting too far.

### Torque Chart- In/lbs 2/23/2016

Minimum torque values			Monitor Mount		
Arm	Base Mount	Arm Joint	Paralink	EV710	Ultra
Elite	120	-	120	-	120
T2Elite	120	120	120	-	120
Titan (T2)	120	120	120	-	120
Ultra	120	120	120	85	120
UL180 / UL182	120	120	-	85	-
MD Arm	140	-	120	-	120

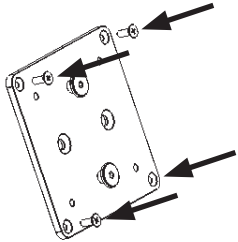
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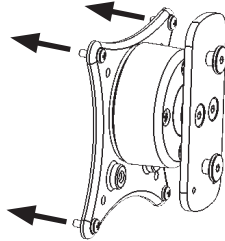
**WARNING:** VT21 is spring loaded. Use caution when raising and lowering the carriage until the unit is mounted with the monitor and keyboard and the spring has been properly adjusted.

## VTLP: ATTACH FLAT VESA TO MONITOR



Mount flat VESA to monitor using 4mm flat head screws. Tighten with Phillips drive.

## VT21 & VTTM: ATTACH BALL VESA TO MONITOR



Mount Ball VESA to monitor using 4mm screws. Tighten with Phillips drive.

## ATTACH VESA WITH MONITOR TO FACE PLATE

Raise VESA with attached monitor to its highest position for access to shoulder bolts.

Insert the VESA shoulder bolts into keyhole slots in face plate.

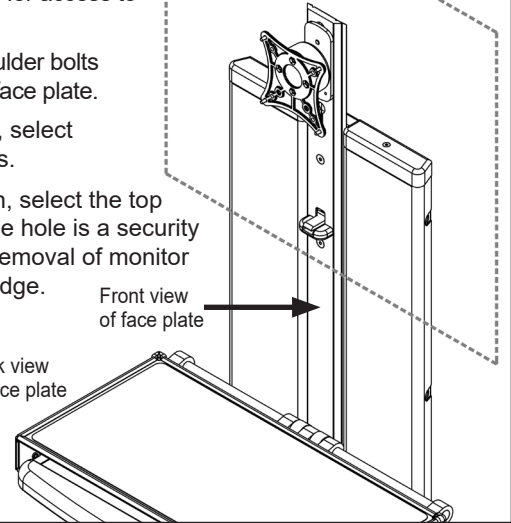
For a lower position, select the bottom two holes.

For a higher position, select the top two holes. The middle hole is a security keyhole to prevent removal of monitor without prior knowledge.



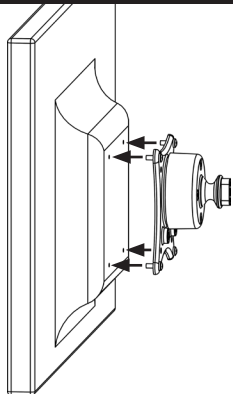
Back view of face plate

Front view of face plate



## VT21HDMR - Dual Monitors

### VT21HDMR: ATTACH MMBV TO MONITORS



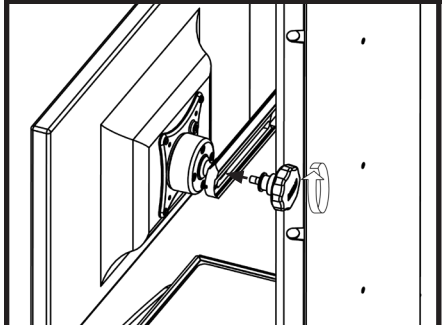
Mount Ball VESA to monitor using 4mm screws. Tighten with Phillips drive.

### VT21HDMR: ATTACH DMR RAIL TO FRONT COVER



1. Attach dual monitor rail to face plate.
2. Raise VESA with attached monitor to its highest position for access to shoulder bolts.
3. Insert the VESA shoulder bolts into keyhole slots in face plate.
4. For a lower position, select the bottom two holes.
5. For a higher position, select the top two holes. The middle hole is a security keyhole to prevent removal of monitor without prior knowledge.

### VT21HDMR: ATTACH MMBV / MONITORS TO DMR



Install monitors onto DMR and tighten hand knobs.

NOTE: Due to the slim profile of the VT21, setting and tightening the hand knob onto the DMR will be a tight fit against the wall.

► MAXIMUM VT21HDMR LOAD CAPACITY: 20-35 LBS (9.1-15.9 KG) | MAXIMUM DUAL MONITOR SIZE: 24"

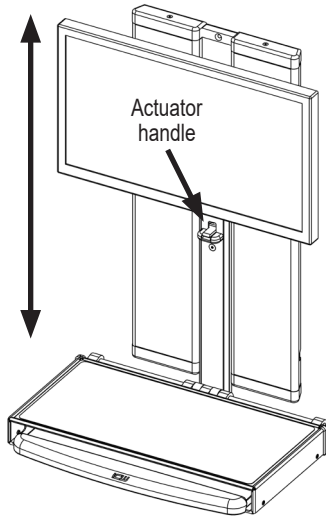
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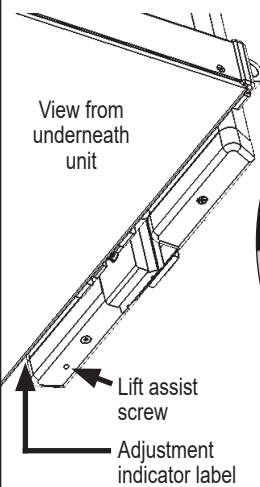
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## CHECK WIRE CLEARANCE

Using the actuator handle, slide monitor and keyboard up and down to check for wire clearance.



## ADJUST LIFT ASSIST



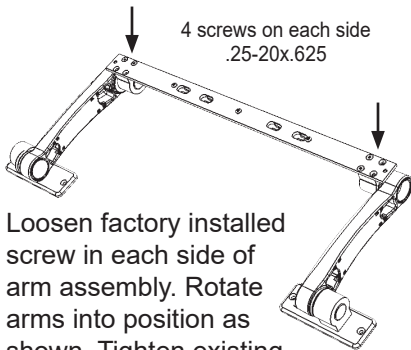
Use 5/32 hex key in lift assist adjuster hole to set for various weights.

An **adjustment indicator label** [+ and -] is low on the left side of the unit.

- Lift assist is increased when the indicator is in the [+ ] position.
- To increase lift assist, use the 5/32 hex key and turn adjuster screw to the right.
- Lift assist is decreased when the indicator is in the [- ] position.
- To decrease lift assist, use the 5/32 hex key and turn adjuster screw to the left.

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## VTTM ONLY - ATTACH ARMS



Loosen factory installed screw in each side of arm assembly. Rotate arms into position as shown. Tighten existing screw. Insert 3 additional screws into both short ears. Tighten.

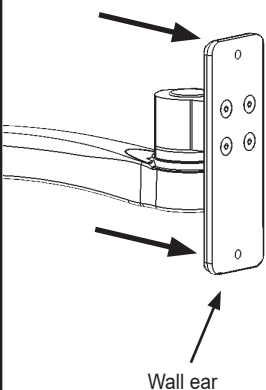
## IF ATTACHING VTTM DIRECTLY TO WALL

### VTTM ONLY - ATTACH WALL EARS TO WALL

Locate the wall stud and mark the top hole of the Wall Ear. Drill a 11/64 pilot hole, insert a #14 screw and tighten slightly. Using a level, mark the lower holes, drill pilot holes and then insert the #14 screws and tighten.



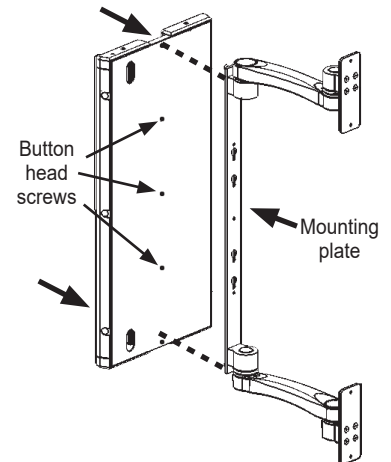
## ATTACH TRACK ADAPTERS



- Attach track adapters to back of wall ear by threading socket head screws from front of ear into track adapters. Loosely tighten with 3/16" hex key.
- Slide track adapters into track from either top or bottom. Position to desired location on track. Firmly tighten screws with 3/16" hex key.

## VTTM ONLY - ATTACH MOUNTING PLATE

To attach main unit to arm assembly, insert .25-20x1.25 flat head screws through top and bottom holes of front of main assembly into mounting plate. Insert three .25-20x.25 button head screws in center holes through front of main unit. Tighten screws.





## IF ATTACHING VTTM TO WALL TRACK

### Track and track adapters sold separately

When mounting to studs, ICW recommends using only wood or metal studs. This is the basic method to mount the arm on a stud. Check building code regulations in your area for additional requirements.

### MOUNT TRACK

#### FOR WOOD STUD

##### Center mounting option

Locate the wall stud and mark the top center hole of the wall track. Drill a 11/64 pilot hole, insert a #14 screw and tighten slightly. Using a level, mark the lower holes in the center of the track, drill pilot holes and then insert the #14 screws. Use all screws.

##### Right or left mounting option

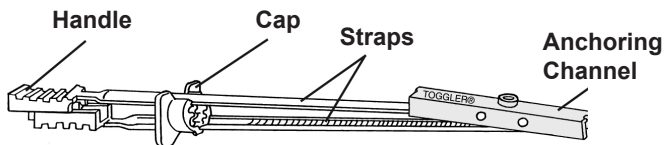
- Locate the wall stud. Align either right or left side of track with stud and mark one hole in the upper corner for track placement. Drill 11/64" pilot hole. Insert #14 screw and tighten slightly.
- Using a level, mark the remaining holes on the same side, drill pilot holes into stud. Insert #14 screws and, with the unit level, tighten screws.
- Insert provided Snap Toggles into outer corner holes on opposite side. See below.

#### FOR METAL STUD

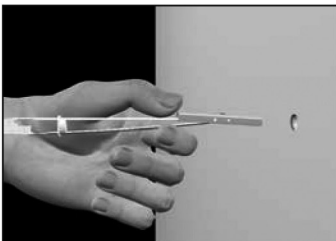
#14 **wood** screws are supplied with unit. If installing into **metal studs** you will need to replace these with proper metal stud fasteners or provided snap toggles. All hardware used to secure track mount must have a proper countersunk head.

Attach beauty cap.

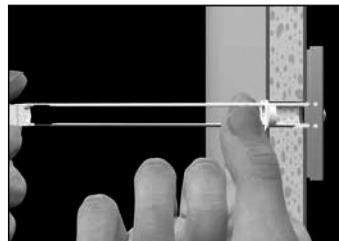
## Snap Toggle Instructions



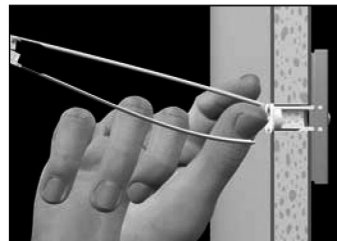
The plastic straps and cap washer are positioning and retention elements only. They do not otherwise function as anchoring elements. Holding is dependent only on a metal bolt to metal channel connection. The SnapToggle anchor complies with all existing fire codes for critical applications.



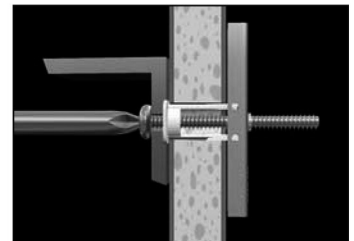
Drill 1/2" hole. Hold metal channel flat alongside plastic straps and slide channel through the hole. Minimum clearance behind wall is 1-7/8"



Hold ends of straps together between thumb and forefinger and pull toward you until channel rests behind wall. Ratchet cap along straps with other hand until flange of cap is flush with wall.



Place thumb between straps at wall. Push thumb side to side, snapping off straps level with flange of cap.



Place track over flange. Insert provided bolt and tighten until snug against track, then stop.