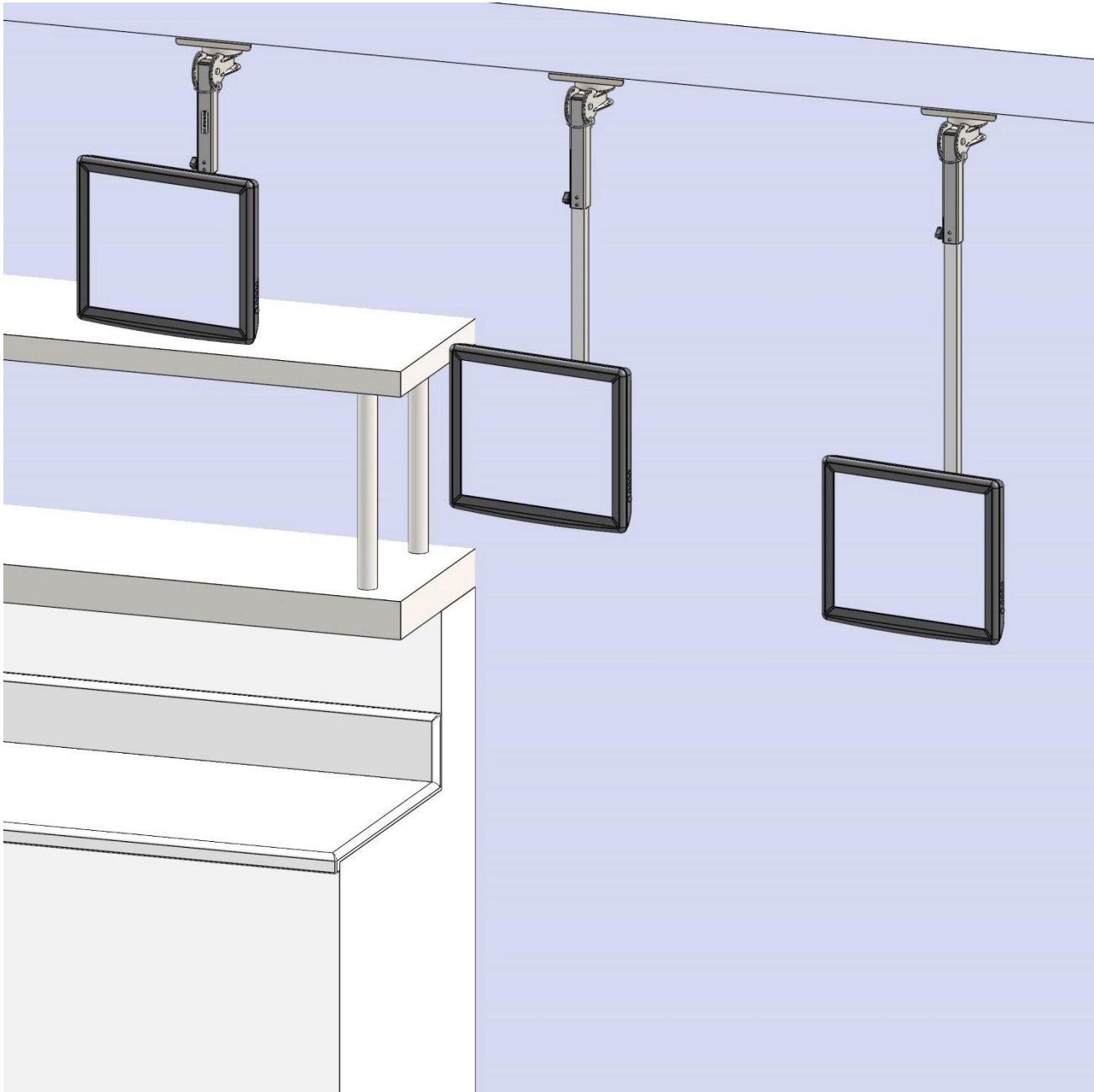
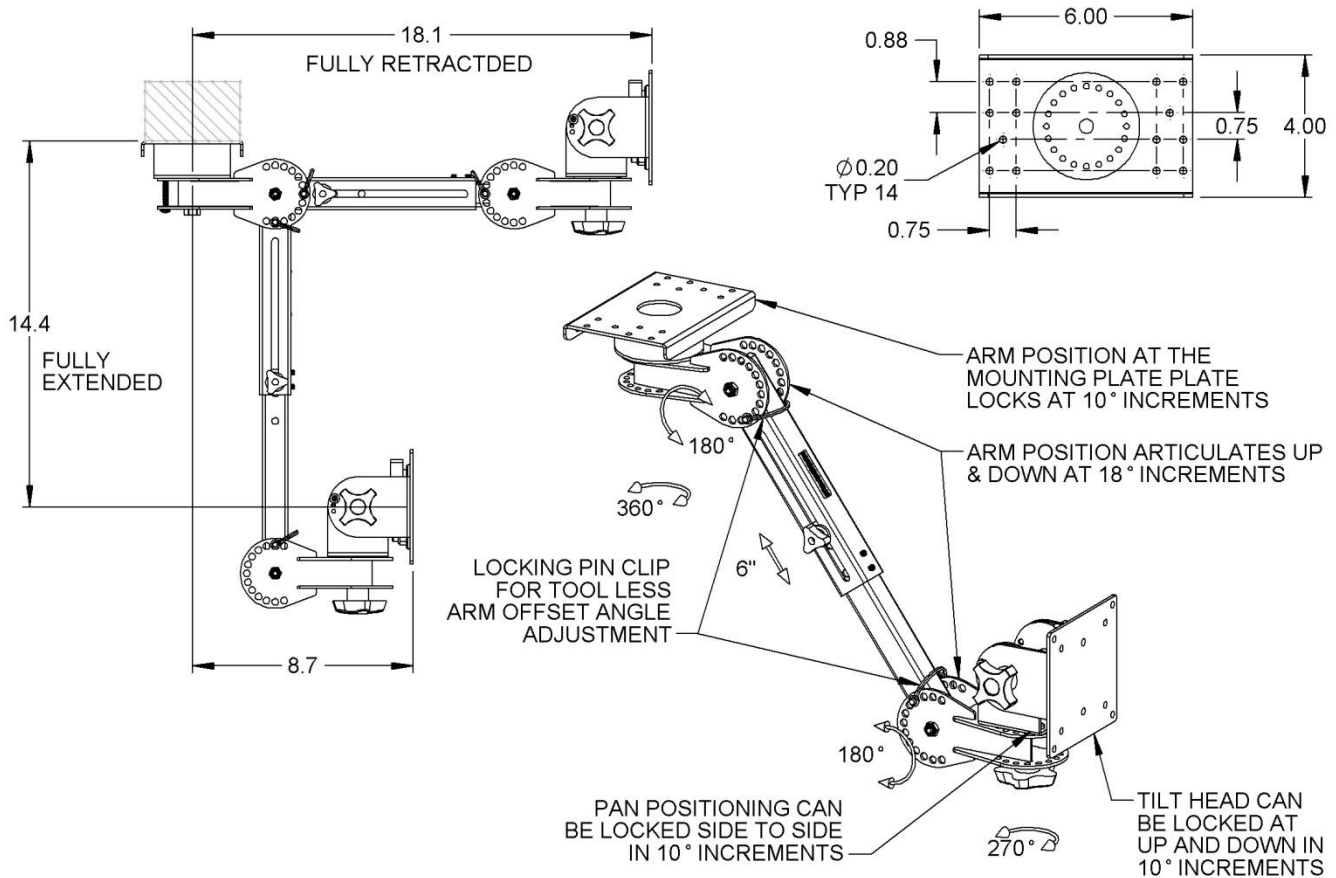


# PQS

PRACTICAL QUALITY SYSTEMS  
*Fast Custom Manufacturing - Nationwide Installation Services*



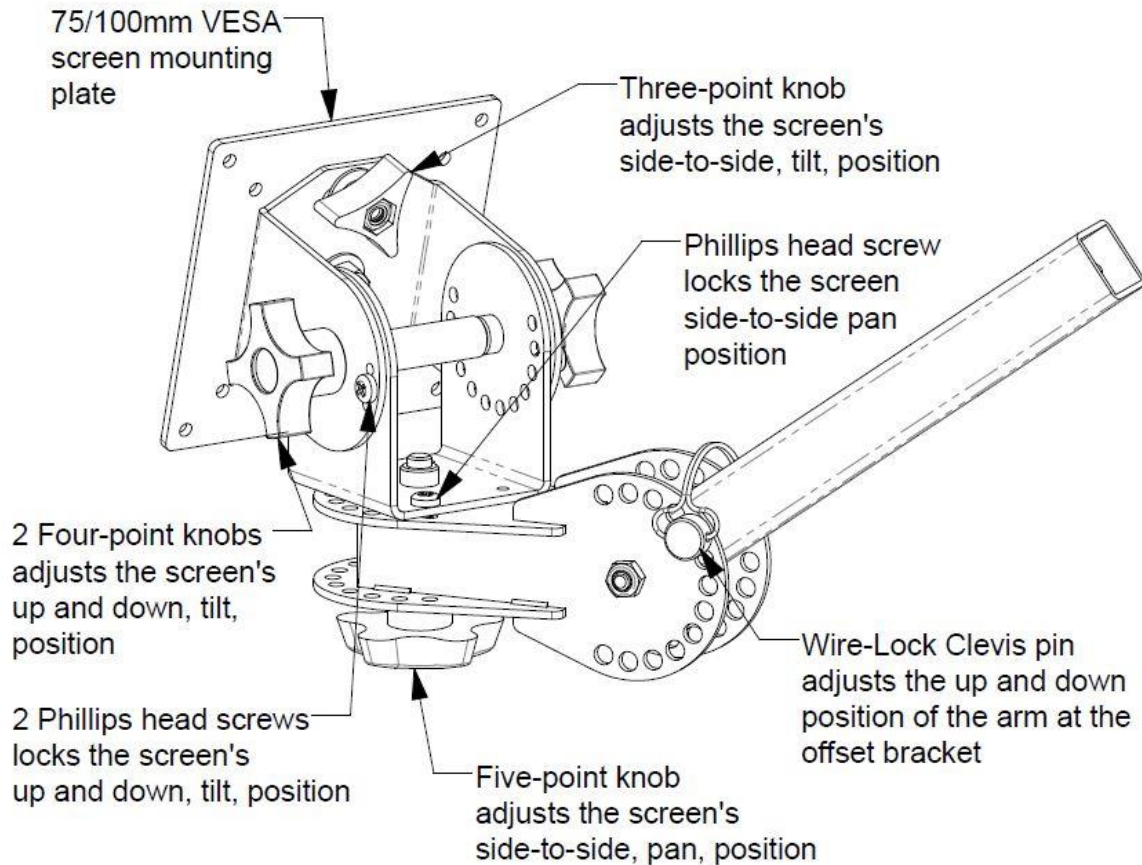
PN 80104 on left, PN 80102-20 in middle and PN 80102-26 on right, screens are not included.



Note - PN 80104 shown above; however the basic mechanics of PN 80104-20 and PN 80104-26 are the same; only the lower arm sections are longer.

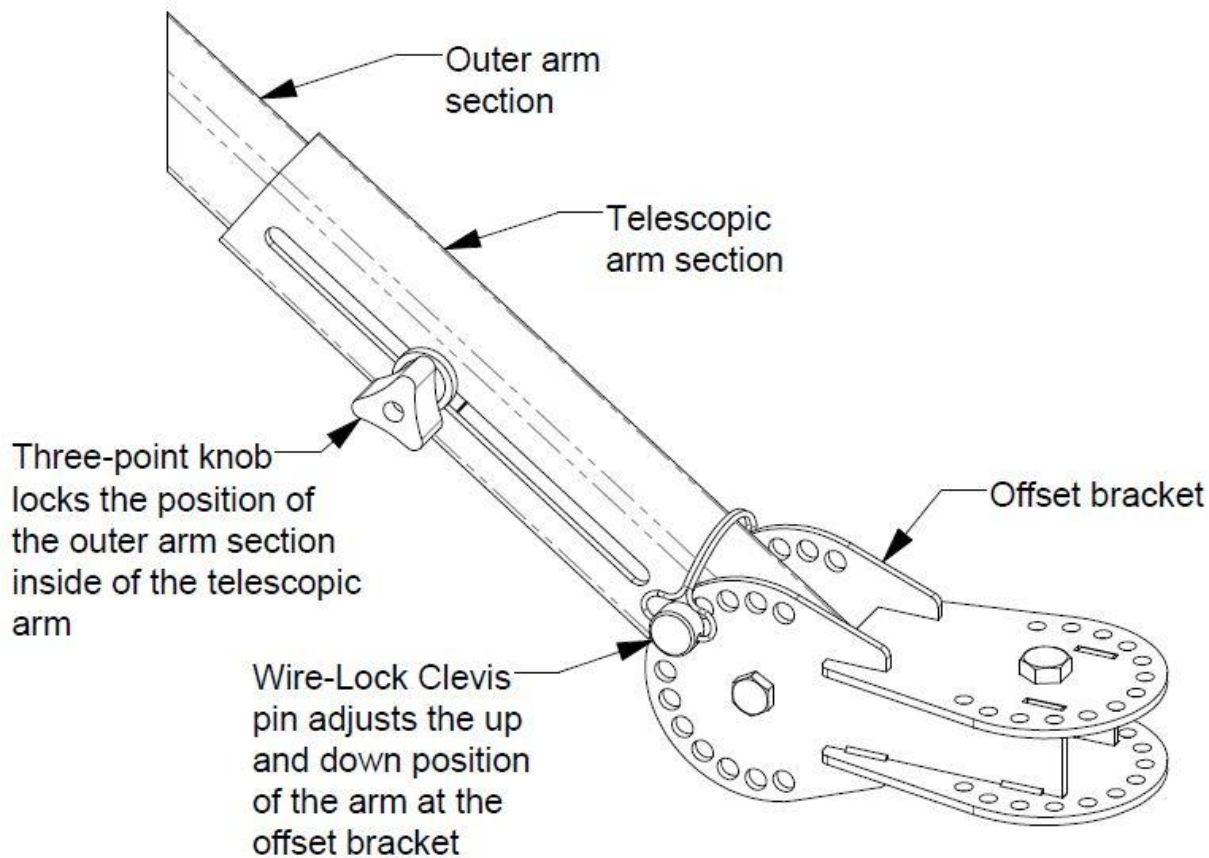
### General Features

- This articulating ceiling VESA mount can be used as a universal support system for all 75mm or 100mm VESA compatible monitors, touchscreens and terminals for Point of Sale / POS, Kitchen Display Systems / KDS in commercial kitchens, retail, restaurants, offices, industry, shops, medical, maritime, schools, laboratory and many other applications.
- An innovative set of joint assemblies allow seven axis of position adjustment when attached to a Ceiling shelf or other flat, horizontal surface. This assembly is also available in wall and countertop mount configurations.
- Beyond having very flexible articulation; this mount has the key feature of being easily LOCKED in any desired screen position; this ability is VERY important when using touch screen equipment as it PREVENTS the screen from moving away from the user each time a touch is input.
- This assembly supports up to 25 lbs., is made from steel and finished with a durable, black, low gloss, micro wrinkle powder coat that resists fingerprints.
- Visit [kitchendisplaysystems.com](http://kitchendisplaysystems.com) for a free, easy to understand tutorial that covers all aspects of Kitchen Display Systems knowledge!
- For more information on the individual components included in this package please refer to the assembly sketches in this document and the downloadable product information sheets available on our website for each of the product pages for each part number.



#### **Enhanced VESA 75-100mm Pan and Tilt Head with side-to-side tilt adjustment on an Offset Arm Bracket**

- A universal mount that works with any 75mm or 100mm VESA compatible screen.
- Tightening the 2 four-point knobs applies variable clutching resistance to allow adjustment of the up and down tilt position of the screen. Tighten either of the two 10-32 Phillips head screws adjacent to the four-point knobs to permanently secure the tilt position.
- Tightening the five- point knob below the Offset bracket applies variable clutching resistance to allow adjustment of the side-to-side pan position of the screen. A 10-32 Phillips head screw in the center of the lower Panning plate can be tightened to permanently secure the pan position.
- Tightening the three - point knob at the rear center of the VESA mounting plate applies variable resistance to allow adjustment of the side-to-side screen tilt position.
- Tighten the 10-32 Phillips head screw on the lower Panning plate into one of the holes in the Offset bracket to permanently secure the pan position.
- The Offset Bracket attaches the VESA pan and tilt head to the end of the arm and allows adjustment of the up and down "Offset angle" of the arm.
- Adjusting the Up and down position of the arm at the Offset bracket: Remove the 1/4" Wire-Lock Clevis Pin from the Offset Bracket to adjust the up and down position of the arm; then reinsert the pin into one of the holes in the Offset bracket and through the arm to secure the new position.
- Includes 4 pieces of M4 Phillips head screws to attach the VESA mounting plate to the back of the screen.

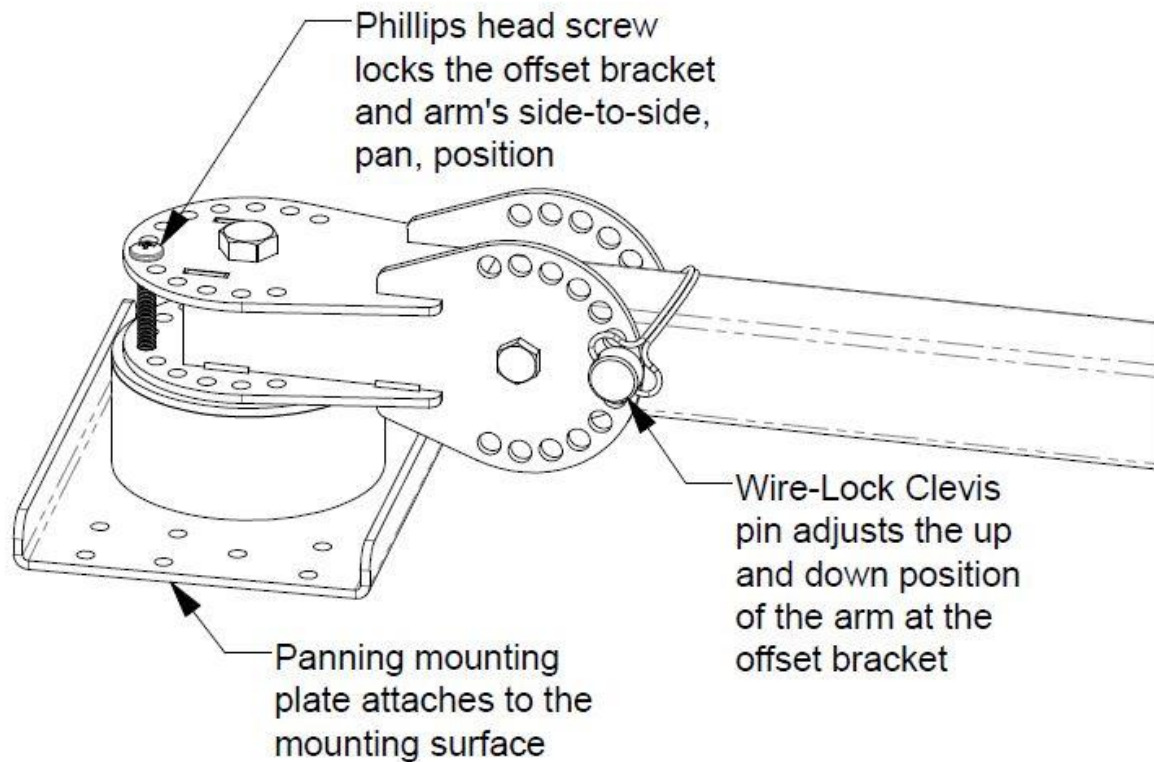


### Telescopic Arm Section

The overall length of the Telescopic arm section can be adjusted up to 6 inches. To adjust; grasp the inner arm and slightly loosen the three-point knob just until the inner arm can be moved. Pull the inner arm out to extend it or push it in to retract the arm to the desired new length; then retighten the knob to secure the position.

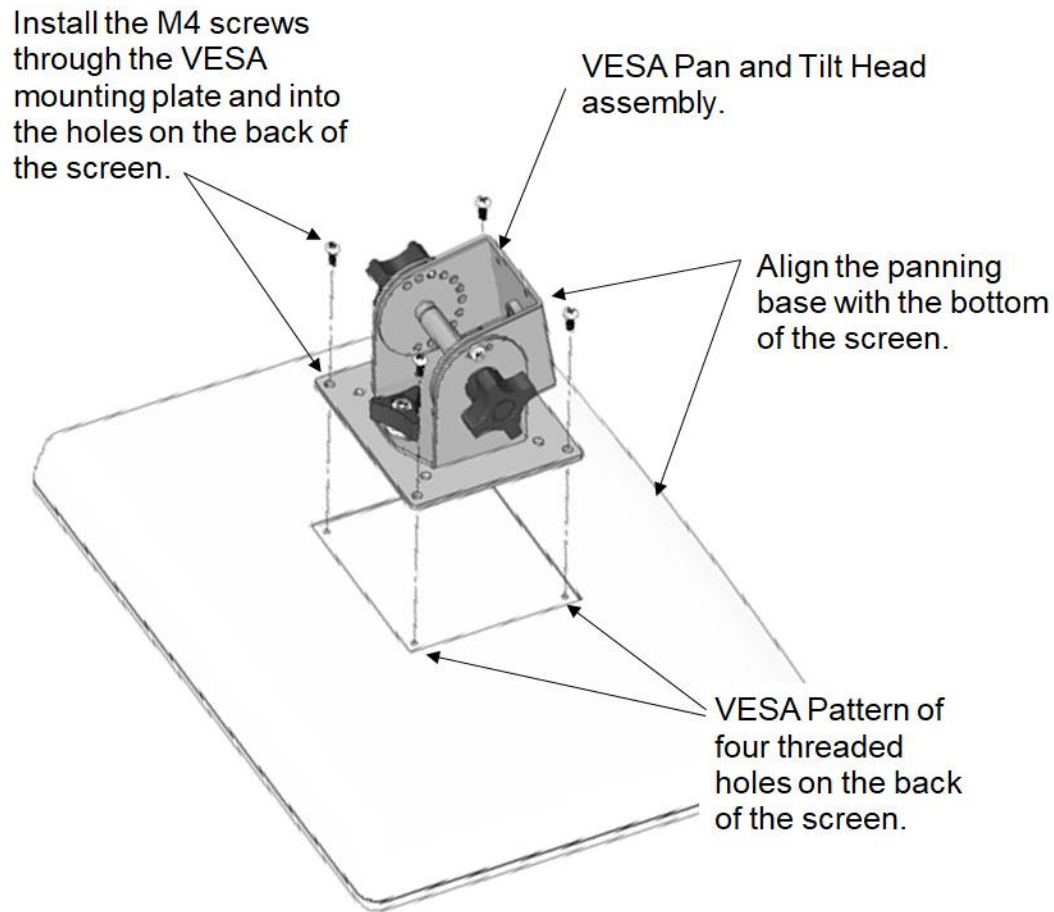
**We believe in ethical SEO relevancy; the following section was included to assist the all-knowing algorithms in locating this page; however, some humans like it too.**

- Fully articulated Ceiling mount, VESA Ceiling mounting bracket, VESA Ceiling mount bracket, Screen Ceiling mount, screen Ceiling mounting bracket, screen Ceiling mount bracket, monitor Ceiling mount, monitor Ceiling mounting bracket.
- Monitor Ceiling mount bracket, POS terminal Ceiling mount, POS terminal Ceiling mounting bracket, POS terminal Ceiling mount bracket, Point of Sale POS terminal Ceiling mount, Point of Sale terminal Ceiling mounting bracket.
- Point of Sale terminal Ceiling mount bracket, KDS Ceiling mount, KDS Ceiling mounting bracket, KDS Ceiling mount bracket, Kitchen Display System Ceiling mount, Kitchen Display System Ceiling mounting bracket. Kitchen Display System Ceiling mount bracket, Kitchen production System Ceiling mount, Kitchen Monitor Ceiling mount.
- Kitchen video Ceiling mount. Touchscreen Ceiling mount, All in One PC Ceiling mount, Healthcare monitor Ceiling mount, Industrial process monitor Ceiling mount, Kiosk Ceiling mount, Office monitor Ceiling mount, manufacturing process monitor Ceiling mount.



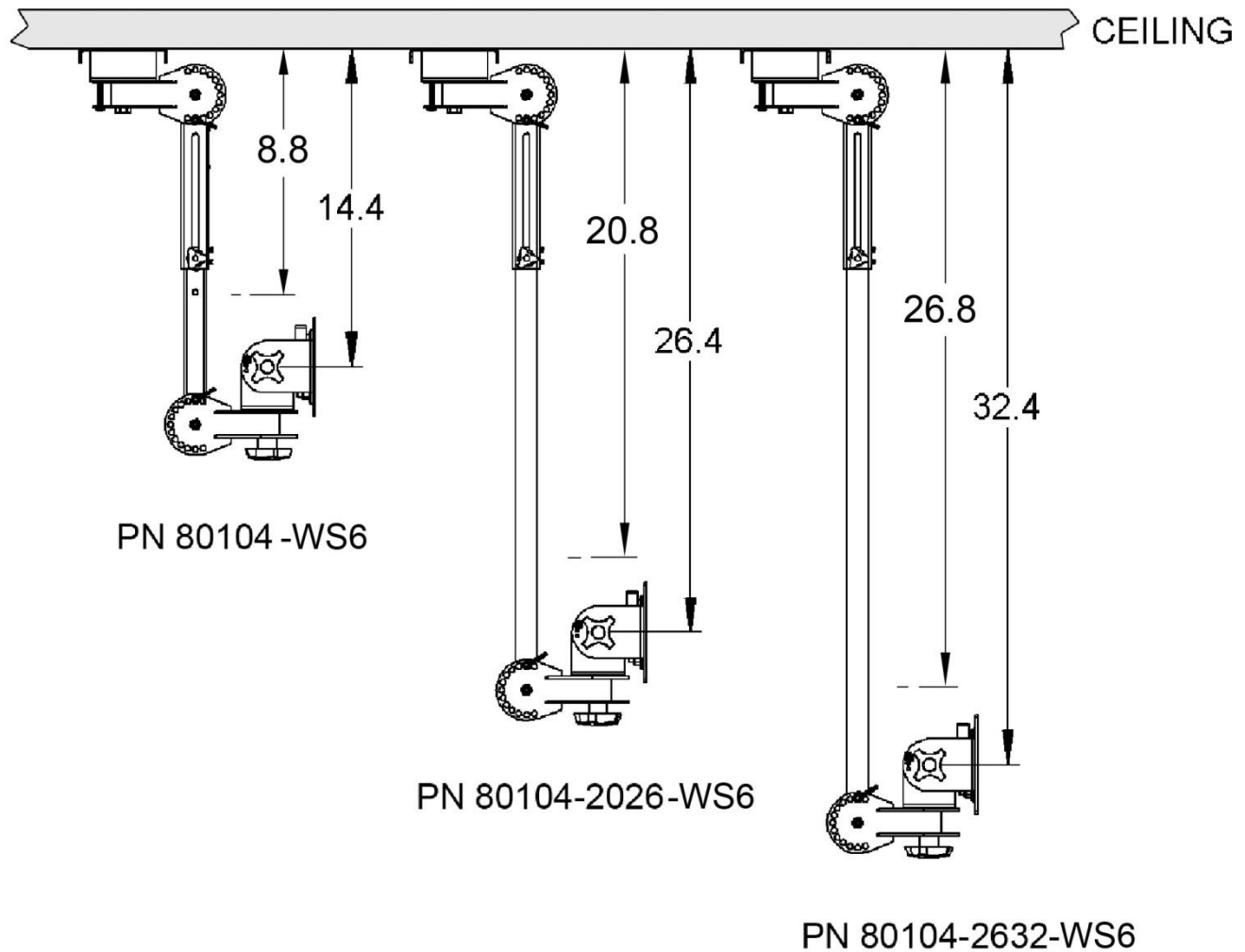
#### **Panning Ceiling Mounting Plate, Offset Bracket and Arm**

- The Panning Ceiling Mounting Plate supports one arm assembly and can be attached to any flat, smooth horizontal surface.
- Attach the mounting plate to the mounting surface with appropriate fasteners.
- The side-to-side pan position resistance is preset at the factory with a 5/16" bolt in the center of the upper standoff plate to allow the arm offset bracket to move freely side to side and should not need adjustment. However, a 1/2" wrench can be used to adjust the tension on this bolt.
- To adjust the side-to-side pan position of the Offset Bracket and Arm; remove the 10-32 Thumbscrew from the top of the Panning Ceiling Mounting Plate; adjust the arm position, then reinstall the thumbscrew into one of the holes in the top of the round section on the mounting plate.
- The Offset Bracket attaches the arm to the Panning Ceiling Mounting Plate and allows adjustment of the up and down "Offset angle" of the arm.
- Adjusting the Up and down position of the arm at the Offset bracket: Remove the 1/4" Wire-Lock Clevis Pin from the Offset Bracket to adjust the up and down position of the arm; then reinsert the pin into one of the holes in the Offset bracket and through the arm to secure the new position.
- Note; it is best to keep the Offset positions of both the upper and lower Offset brackets on an arm assembly "matched" so that the Panning base of the VESA head remains horizontal. Example; if the upper Offset bracket and the Mounting plate is set to place the arm in the 1<sup>st</sup> position at an outward angle from the wall; then the position of the Lower Offset bracket should be set to the 1<sup>st</sup> position in the opposing angle to match it and keep the Panning base of the VESA head horizontal



**Installation Tips - How to Attach the VESA Pan and Tilt Head assembly to the back of a screen:**

1. Lay the screen face down on a flat, smooth surface.
2. Hold the VESA Pan and Tilt Head assembly securely, remove the five-point hand knob, lift off the VESA Pan and Tilt Head assembly, and remove the rubber clutch washer from the top of the end of the arm.
3. Orient the flat bottom of the panning base of the VESA Pan and Tilt Head assembly with the bottom of the screen.
4. Set the VESA Pan and Tilt Head assembly with the VESA mounting plate facing down on the back of the screen.
4. Align the square pattern of either 75mm or 100mm spaced holes in the VESA mounting plate with the pattern of four tapped holes on the back of the screen.
5. Carefully install the four supplied M4 screws through the holes in the VESA mounting plate and into the tapped holes on the back of the screen.
6. Place the rubber clutch washer on the top of the end of the arm.
7. Carefully lift the Screen with the attached VESA Pan and Tilt Head assembly, align the tapped hole in the panning base with hole in the rubber clutch washer on the top of the end of the arm, reinstall the shaft of the five-point hand knob up through the underside of the arm, through the rubber clutch washer and then carefully thread it into the panning base.

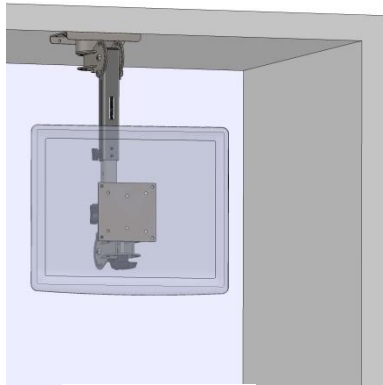


There are three extension arm assembly sections available. Please specify when ordering.  
Each assembly is shown with dimensions that reflect the fully retracted and fully extended positions.

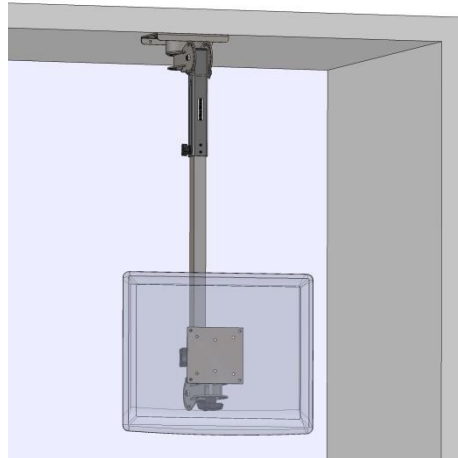
PN 80104 with an 8 ½" L arm which allows the mount to extend from 8.8" long to 14.4" long.

PN 80104-20 with a 20" L arm which allows the mount to extend from 20.8" long to 26.4" long.

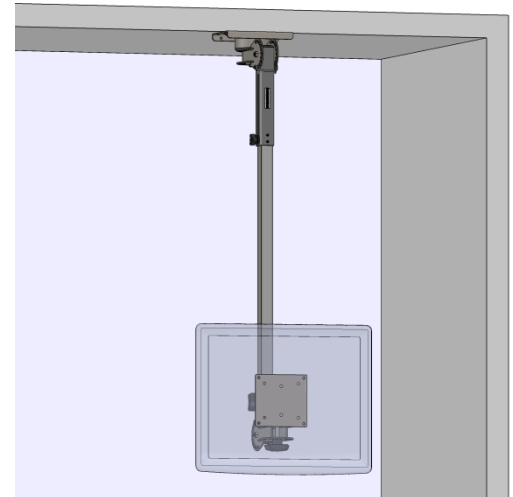
PN 80104-26 with a 26" L arm which allows the mount to extend from 26.8" long to 32.4" long.



PN 80104



PN 80104-20



PN 80104-26

### Installation Tips for Screen Mounting Systems

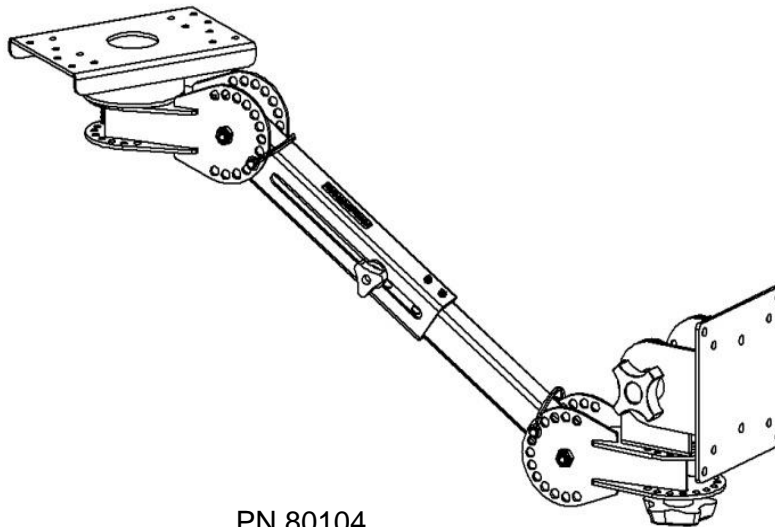
- 1.1 Installation of this assembly must be performed by qualified persons.
- 1.2 Use fasteners that are appropriate for the materials and structure of the mounting surface.

### Tips for locating KDS or POS Screen Mounting Systems

- 1.1 Care must be taken when locating KDS or POS Screens so that the display can be easily seen by the users (and in some cases touched); and also so that the screen does NOT block access to the pass through window or items such as ingredients, plates, microwaves, etc. that are located on the adjacent shelves.
- 1.2 As a general rule of thumb KDS and POS screens should be located to place the center of the display at, or just above, eye level.
- 1.3 Most KDS screens are supported by mounting systems that are attached directly to the edge of existing kitchen shelves above a production work station or expo area. POS Screens are most often attached to counter tops, Under counter, shelf edges or walls.
- 1.4 Conduct a careful survey of each POS station, Kitchen work station or expo area. Stand where the users will be standing at their work stations and consider all possible screen locations. Again ; the screens should be located where they are readily accessible; but also where they do not limit access to other important items in the work area.

### Partial list of Compatible Touchscreen Monitors

- elo Touchscreen Monitor 0702L, 1002L, 1302L, 1502L, 2002L, 2202L, 2201L, 2402L, 2702L, 1515L, 1517L, 1523L, 1715L, 1717L, 1723L, 1902L, 1915L.
- elo Touchscreen Monitor Medical Grade 1903LM, 2203LM 22", 2403LM 24", 2703LM 27".
- Viewsonic Touch screens TD3207, TD1630-3, TD2223 , TD2230, TD2423, TD2430, TD2760.
- Beetrionics Inc. touchscreens 7TS7M, 8TSV7M, 10TS7, 10TSV7M, 10TS7M, 12TS7, 12TSV7M, 12TS7M, 13TS7, 13TS7M, 15TS7, 15TSV7M, 15TS7M, 17TSV7M, 17TS7M, 19TSV7M, 19TS7M, 22TS7M, 24TS7M.
- Planar Touch Screen Monitors Helium PCT2265, PT2245PW, Helium PCT2235, PXL2230MW, PT1945P, PT1945R, PT1745P, PT1545P, PT1545R.



PN 80104

### **Locating a Screen or Printer mount and examining the range of Motion of the arm(s).**

- 1.1 Cut a section of blue painter's tape that is the same width as the mounting plate and keep this handy.
- 1.2 Carefully Lift the mounting system, and place the mounting plate in contact with the mounting surface at the proposed mounting location; then consider if the location of the VESA pan and tilt head or printer tray are accessible; but also not creating any conflicts with other items in the work area. If the system has movable arm(s) move these through their entire range of motion and look for conflicts. If conflicts are found; adjust the proposed location of the mounting plate as needed. When the optimum location is discovered; apply the tape to the spot on the mounting surface.
- 1.3 An alternate method that can be used as an aid in determining the best location for screens or printers is to make a cardboard cut out that has been shaped to closely match the overall dimensions of the intended screen or printer tray. (In a pinch you can also use a tray or a pizza box as a stand in for a screen.) Use these cardboard models as stand in for the actual equipment to assist in demonstrating the best positions of screens or printers.
- 3.4 If the screen or printer is supported by an arm; locate the pivot points of the arm and then carefully guide the VESA head or printer tray horizontally through the entire range of movement to determine optimum location for the mounting plate. When this location is discovered; apply the tape to the spot on the mounting surface.

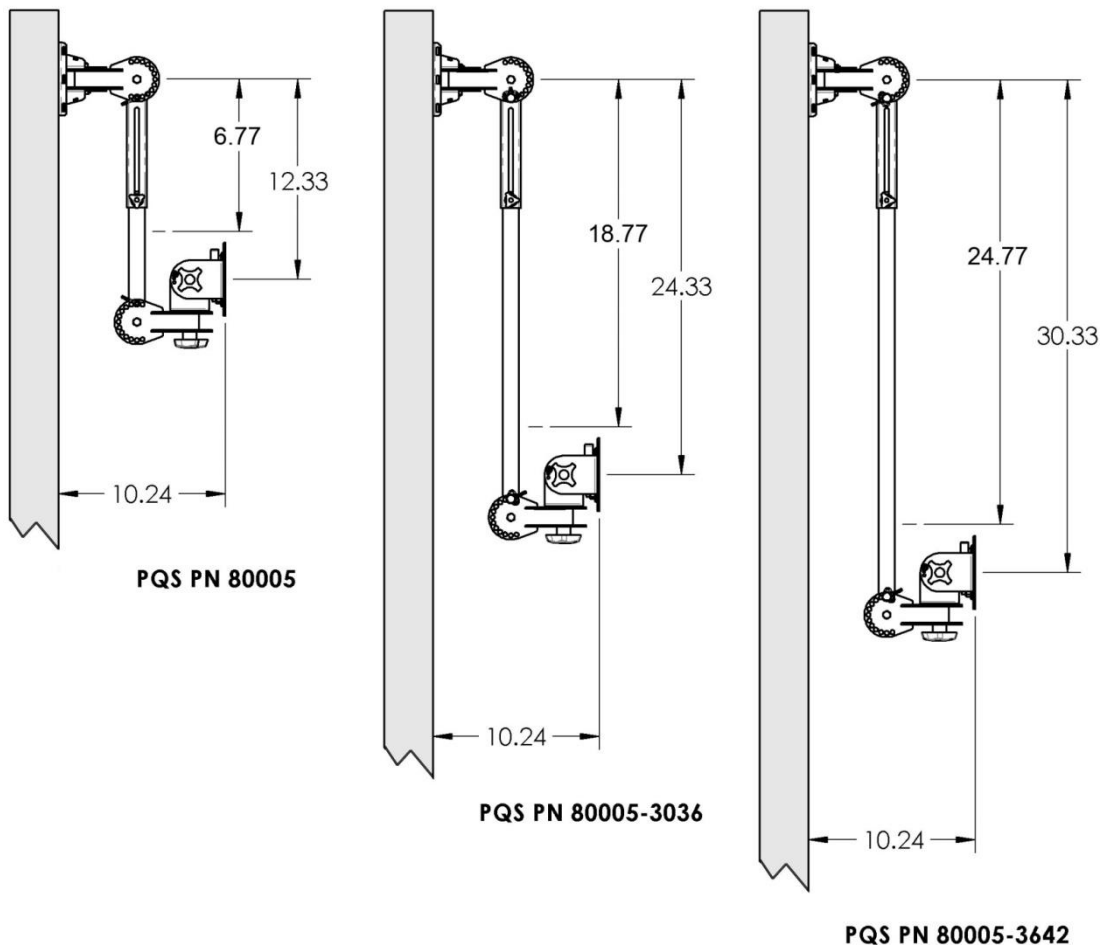
The three mounting systems below are available in ceiling mount configuration with similar seven axis functionality.

PN 80005 Includes an 8.63" long lower arm that allows the mount to extend from 7" to 12"+

PN 80005-3036 Includes a 20.63" long lower arm that allows the mount to extend from 19" to 24"

PN 80005- 3642 includes a 26.63" long lower arm that allows the mount to extend from 25" to 30"

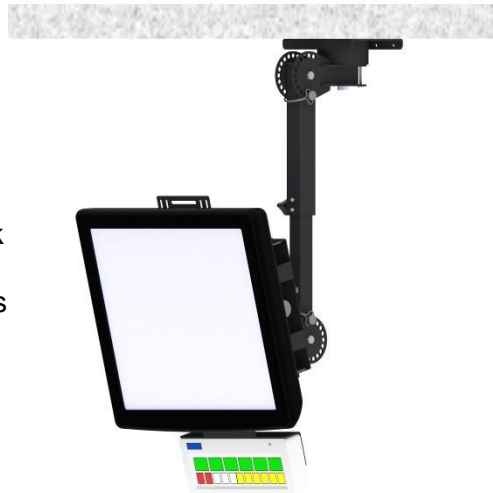
Custom length lower arm assemblies are also available. Please contact our design team.



**This screen mounting system is compatible with the following POS systems:**

- Lightspeed, logic controls, NCR, elotouch, posiflex, Poster POS, ehopper, Beetrionics, Tysso, favpng, Touch Dynamic, FastSpring, CAKE, Erply, Sapaad, Upserve, Salesforce Commerce Cloud, Block, Miva Merchant, Epos Now, QuickBooks POS, Shopify, VEND, Revel, Clover, CovaPOS, Oracle NETSUITE, MICROS, GoDaddy, Helcim, Epos Now, Upserve POS, Elo, CardConnect, NCR, ALOHA, SQUARE, Posnation, KORONA POS, BEMETECH, toast, Touchbistro, LAVU, Partnertech.

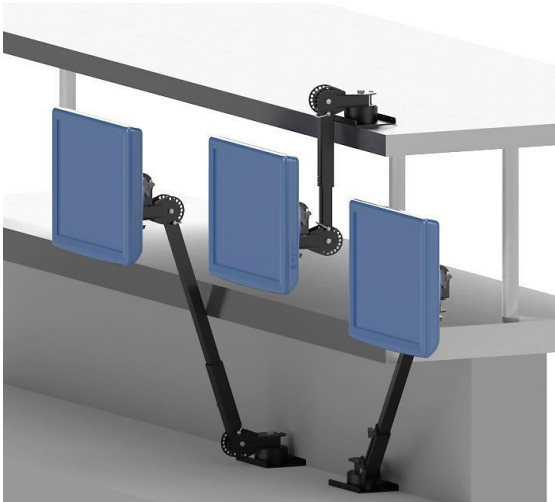
PN 80104 shown with optional back of screen enclosure PN 80600 and PN 80505 Bematech-Logic Controls KP1700 Bump Bar mounting plate.



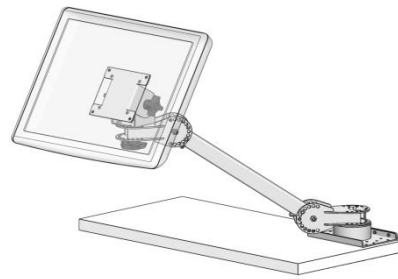
#### **Partial list of Compatible Touchscreen Computers, Interactive displays, All-in-One PCs**

- elo Touchscreen Computer and Interactive displays 10-inch I-Series 4 for Android E389883, E411266, E390647, E411643.
- elo Touchscreen Computer and Interactive displays 15-inch I-Series 4 for Android E390075, E412033, E391032, E412421.
- elo Touchscreen Computer and Interactive displays 22-inch I-Series 4 for Android E390263, E412818, E391414, E413211.
- elo Touchscreen Computer and Interactive displays 15-inch I-Series for Windows (2.0) E691852, E692048, E850204, E850003, E692244, E692448.
- elo Touchscreen Computer and Interactive displays 22-inch I-Series for Windows (2.0) E692640, E692837, E850591, E850387, E693022, E693211.
- elo 15-inch (4:3) EloPOS Systems E931330, E931524, E590979, E494164, E587032, E931706, E931896, E590570, E494361, E932090, E932274, E407443, E485078, E590763.
- elo 15-inch (16:9) EloPOS Systems E440439, E440234, E397891, E441010, E440808, E441385, E441193, E441781, E441575, E262258, E397698, E263402, E442161, E441968, E442550, E442365, E892954, E841559, E877703, E892761, E935572, E935367, E841357, E395937, E935967, E935775, E407627, E880567, E396134, E727037, E936365, E936163, E936750, E936556, E536624, E939305, E939498.
- elo 17-inch (5:4) EloPOS Systems E402183, E401992, E485278, E484096, E491271, E402576, E402382, E484495, E484291, E491458, E402963, E402781, E484700, E484896.
- 22-inch EloPOS Systems E937154, E936953, E413988, E414192, E511988, E937523, E937340, E612017, E375459, E410884, E910541, E397507, E511785, E937919, E937720, E938297, E938113, E560404, E417915.
- Dell All-in-one OptiPlex 3290, OptiPlex 3090, OptiPlex 7490, OptiPlex 7780, OptiPlex 5480, OptiPlex 5490, Inspiron 24 5000, Inspiron 27 7000.
- HP, HP Chromebase, Envy, AIO, Pavilion, Office 365, All-in-One - 2Z1Z3AV\_1, 20W72AA#ABA, 20W60AA#ABA, 3UQ98AA#ABA, 20W59AA#ABA, 20W58AA#ABA, 3UR17AA#ABA, 20W57AA#ABA, 10M73AV\_1, 8AJ56AV\_1, 3UR10AA#ABA, 20W66AA#ABA, 3UQ97AA#ABA, 22\_AiO\_O365P\_Kit, 3UQ96AA#ABA, 8AJ03AV\_1, 3UR18AA#ABA, 3UR02AA#ABA.
- Lenovo IdeaCentre, ThinkCentre F0E5002DUS, F0FQ0008US, F0EX0001US, F0FB001RUS, F0FB0077US, F0FB007FUS.
- Cybernet iOne S24, iOne S22, iOne S20, iOne S19.

Also available in countertop or shelf edge mount configurations in four lengths.



PN 80102-26 left, PN 80102 mid PN 80102-20 right

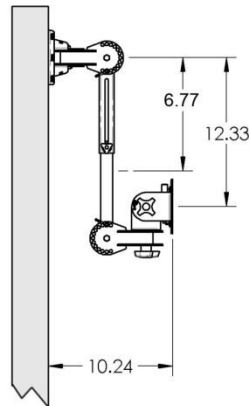


PN 80105

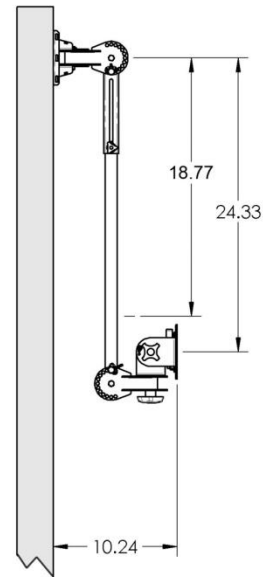
Also available in wall mount configuration in three lengths.



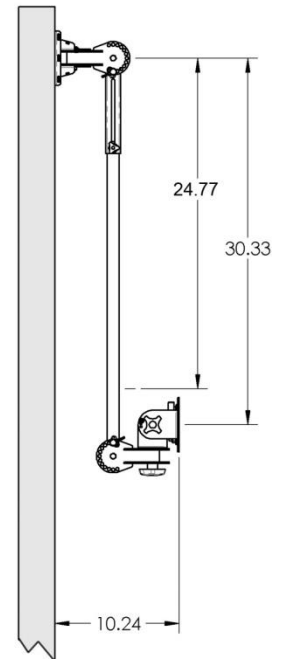
[PN 80005](#)



PQS PN 80005



PQS PN 80005-3036



PQS PN 80005-3642

### **Interactive Catalog of Ceiling Mounts for Screens**

These mounts are included in the [“Ceiling Mounts for Screens”](#) product group pages on our website.  
For more information; click on the images or descriptions to visit the individual product pages on our website.  
PDF Product Information Sheets are available at the Product Attachments tab on each product page.

#### **[Practical Quality Systems Home Page](#)**



[PN 80104 - 7 Axis Ceiling Mount +  
Extendable Arm + Biased Pan - Tilt  
Head](#)



[PN 80104-2026 - 7 Axis Ceiling Mount  
+ Extendable Arm + Biased Pan - Tilt  
Head](#)



[PN 80104-2632 - 7 Axis Ceiling Mount  
+ Extendable Arm + Biased Pan - Tilt  
Head](#)

### Interactive Catalog of Product Sub Groups

There are many individual products included in the various product sub groups featured on these pages.

Click on the images or descriptions to visit the individual product sub group pages on our website.

For Information about individual products; click on the "Product Attachments" tab on each of the individual product pages.

[Practical Quality Systems Home Page](#)



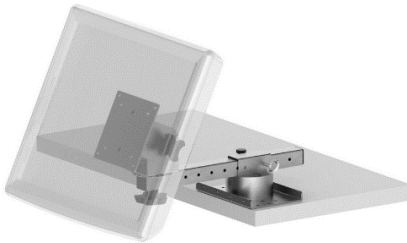
[Wall Mounts for Screens](#)



[Wall Mounts for POS Printers](#)



[Wall Mounts for Screens and POS Printers](#)



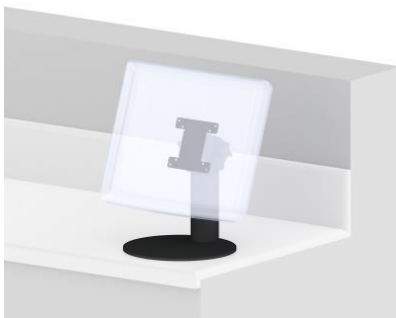
[Shelf Edge Mounts for Screens](#)



[Shelf Edge Mounts for POS Printers](#)



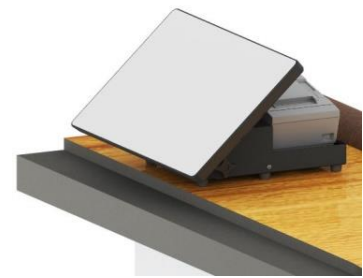
[Shelf Edge Mounts for Screens and POS Printers](#)



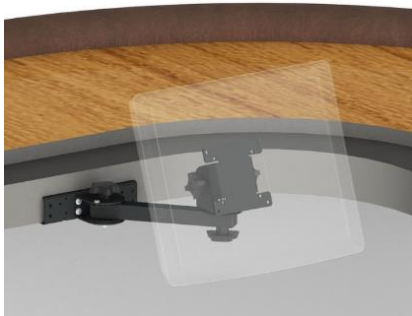
[Counter Top Mounts for Screens](#)



[Counter Top Mounts for POS Printers](#)



[Counter Top Mounts for Screens and POS Printers](#)



[Under Counter Mounts for Screens](#)



[Under Counter Mounts for POS Printers](#)



[Under Counter Mounts for Screens and POS Printers](#)

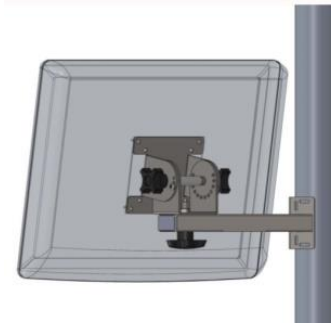
### Interactive Catalog of Product Sub Groups

There are many individual products included in the various product sub groups featured on these pages.

Click on the images or descriptions to visit the individual product sub group pages on our website.

For Information about individual products; click on the "Product Attachments" tab on each of the individual product pages.

[Practical Quality Systems Home Page](#)



[Pole Mounts for Screens](#)



[Pole Mounts for POS Printers](#)



[Ceiling Mounts for Screens](#)



[Oracle MICROS Mounting Systems](#)



[NCR Aloha KDS Mounting Solutions](#)



[QSR KDS Mounting Solutions](#)



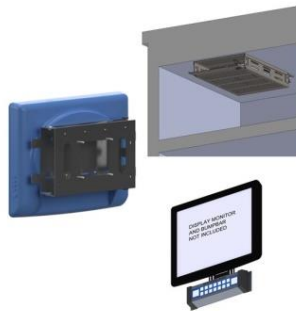
[Logic Controls Bematech KDS Mounting Solutions](#)



[Universal Kitchen Display System Mounting Packages](#)



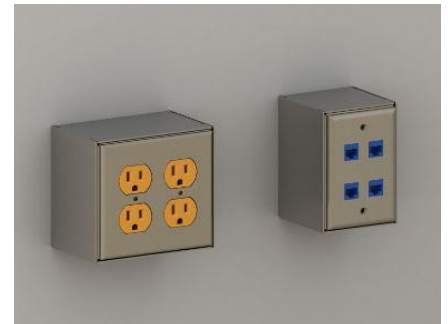
[Enclosures for Touchscreen, Monitors and Thin Clients](#)



[Back Of Screen VESA Mounts for Controllers, Thin Clients, Bump Bars, Tap+ Touch + EMV Readers](#)



[Stainless Steel Wireways](#)



[Stainless Steel Power and Data Outlet Monuments](#)

### Interactive Catalog of Product Sub Groups

There are many individual products included in the various product sub groups featured on these pages.

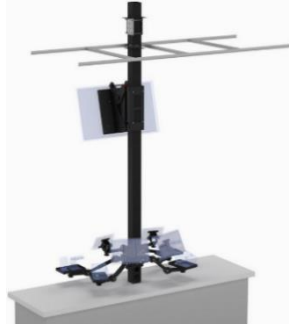
Click on the images or descriptions to visit the individual product sub group pages on our website.

For Information about individual products; click on the "Product Attachments" tab on each of the individual product pages.

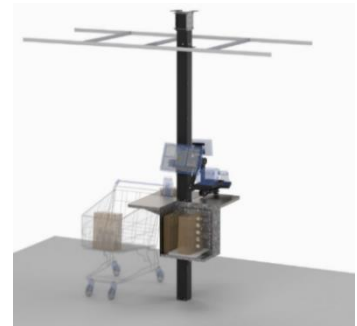
[Practical Quality Systems Home Page](#)



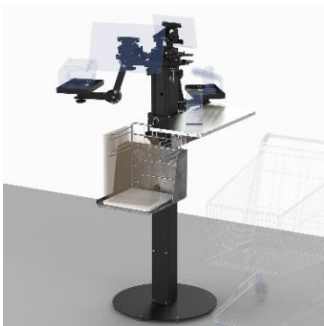
[Movable Countertop POS Stands](#)



[Direct Mount Countertop POS Stands](#)



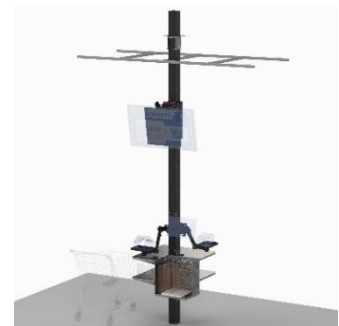
[POS Cashier Pole Stands](#)



[POS Cashier Floor Stands](#)



[POS Self-Check Out Kiosk Floor Stands](#)



[POS Self-Check Out Kiosk Pole Stands](#)



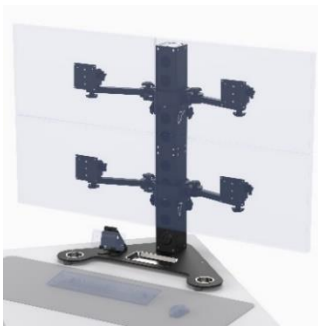
[Take Out Pickup Pole Stands](#)



[Take Out Pickup Floor Stands](#)



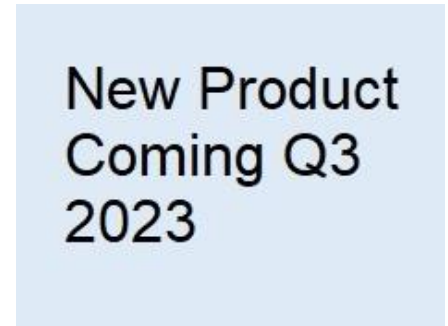
[Information Kiosk Floor Stands](#)



[Desktop Multi-Screen Pedestal Stands](#)



[4X4 Pole Clamp on Mounts](#)



[Mobile Cashier Stands](#)

### Interactive Catalog of Product Sub Groups

There are many individual products included in the various product sub groups featured on these pages.

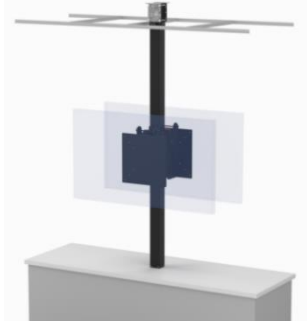
Click on the images or descriptions to visit the individual product sub group pages on our website.

For Information about individual products; click on the "Product Attachments" tab on each of the individual product pages.

[Practical Quality Systems Home Page](#)

New Product  
Coming Q3  
2023

Mobile Self-Check Out Stands



[Digital Signage Pole Stands](#)

New Product  
Coming Q3  
2023

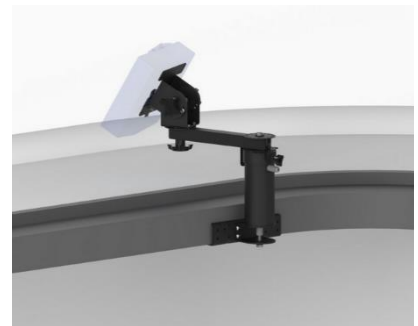
Stationary Podiums

New Product  
Coming Q3  
2023

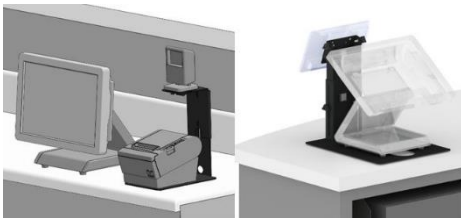
Stationary Podiums with Ceiling Feed  
Pole

New Product  
Coming Q3  
2023

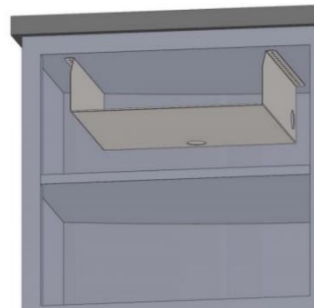
Mobile Podiums



[Ingenico Lane Reader Mounting  
Systems](#)



[Other Counter Top Mounts](#)



[Cash Drawer Mounting Solutions](#)