aigis mechtronics

PVD20 MOUNTING KITS AND MOUNTS

PVD-MK - Ceiling

PVD-MK - Truss

Wall Mount

INSTALLATION AND OPERATING INSTRUCTIONS

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SAFETY PRECAUTIONS

The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SECURITE

Le point d'exclamation à l'intérieur d'un triangle équilatéral avertit l'utilisateur de la présence d'instructions importantes d'utilisation et de maintenance dans la documentation accompagnant l'appareil.

SICHERHEITSVORKENHRUNGEN

Das Ausrufezeichen in dem gleichseitigen Dreieck ist dazu da, den Benutzer auf wich-tige Inbetriebnahme- und Instandhaltungs-vorschriften hinzuweisen, die dem Gerät in Form einer Broschüre beigelegt sind.

PRECAUCIONES DE SEGURIDAD

El símbolo de exclamación dentro de un triángulo equilátero, se muestra con el objetivo de alertar al ususario de que instrucciones de operación y mantenimiento importantes acompañan al equipo.

1 UNPACKING

NOTE: This instruction book covers the mounting portion of the PVD20 installation. The following part numbers can be found as part of the respective kits used to install the PVD20. Please use the instruction book that came with the PVD20 to complete the installation.

Verify the kit part number to be installed.

PVD-MK-Ceiling
PVD-MK-Truss
MTFPF12F

The following is a breakdown of the MOUNT PORTION of each kit.

PVD-MK- Ceiling: Kit for the - 2x2CPLC

2x2CPLC

1 2x2CPLC 2'x2' ceiling tile
- 1- Lock Ring, unthreaded
- 1- Safety Ring, threaded
- 1- Allen wrench

4 18 ft. 12ga. support wires

PIPE-KIT-48

1 PIPE-KIT-48 four foot 1 1/2" schedule 40 aluminum pipe threaded on both ends

MTFPF10P

1 MTFPF10P feed through pole mount with VESA plate, feed through ball joint, threaded stem and wall flange, painted white

4 10-24x3/8" BHC stainless steel patch lock screws

4 #10 plain stainless steel flat washers

1 Allen wrench

PVD-MK- Truss: Kit for the - MTJ1

MTJ1

1 MTJ1 Truss Mount, painted white
- 1- Loctite threadlocker adhesive
- 4- 5/16" flat stainless steel washers
- 4- M8 lock washers
- 4- 5/16-18 stainless steel nuts
- 4- 5/16-18x2.5 long hex bolts
- 1- Lock Ring, unthreaded
- 1- Safety Ring, threaded
- 1- Allen wrench

PIPE-KIT-48

1 PIPE-KIT-48 four foot 1 1/2" schedule 40 aluminum pipe threaded on both ends

MTFPF10P

1 MTFPF10P feed through pole mount with VESA plate, feed through ball joint, threaded stem and wall flange, painted white

4 10-24x3/8" BHC stainless steel patch lock screws

4 #10 plain stainless steel flat washers

1 Allen wrench

MTFPF12F: Wall Mount

MTFPF12F

1 MTFPF12F feed through flange/wall mount with VESA plate, feed through ball joint, 12" stem and wall flange, painted white

4 10-24x3/8" BHC stainless steel patch lock screws

4 #10 plain stainless steel flat washers

1 Allen wrench

2 SERVICE

If any product ever needs repair service, contact Aigis Mechtronics.

3 DESCRIPTION

Mounting Kits for installation of the PVD20.

4 INSTALLATION

ATTENTION: Installation should be preformed by qualified service personnel only in accordance with applicable local codes.

CAUTION: Do not exceed the Maximum Rated Load for the particular mount used.

4.1 Installing the PVD-MK - Ceiling

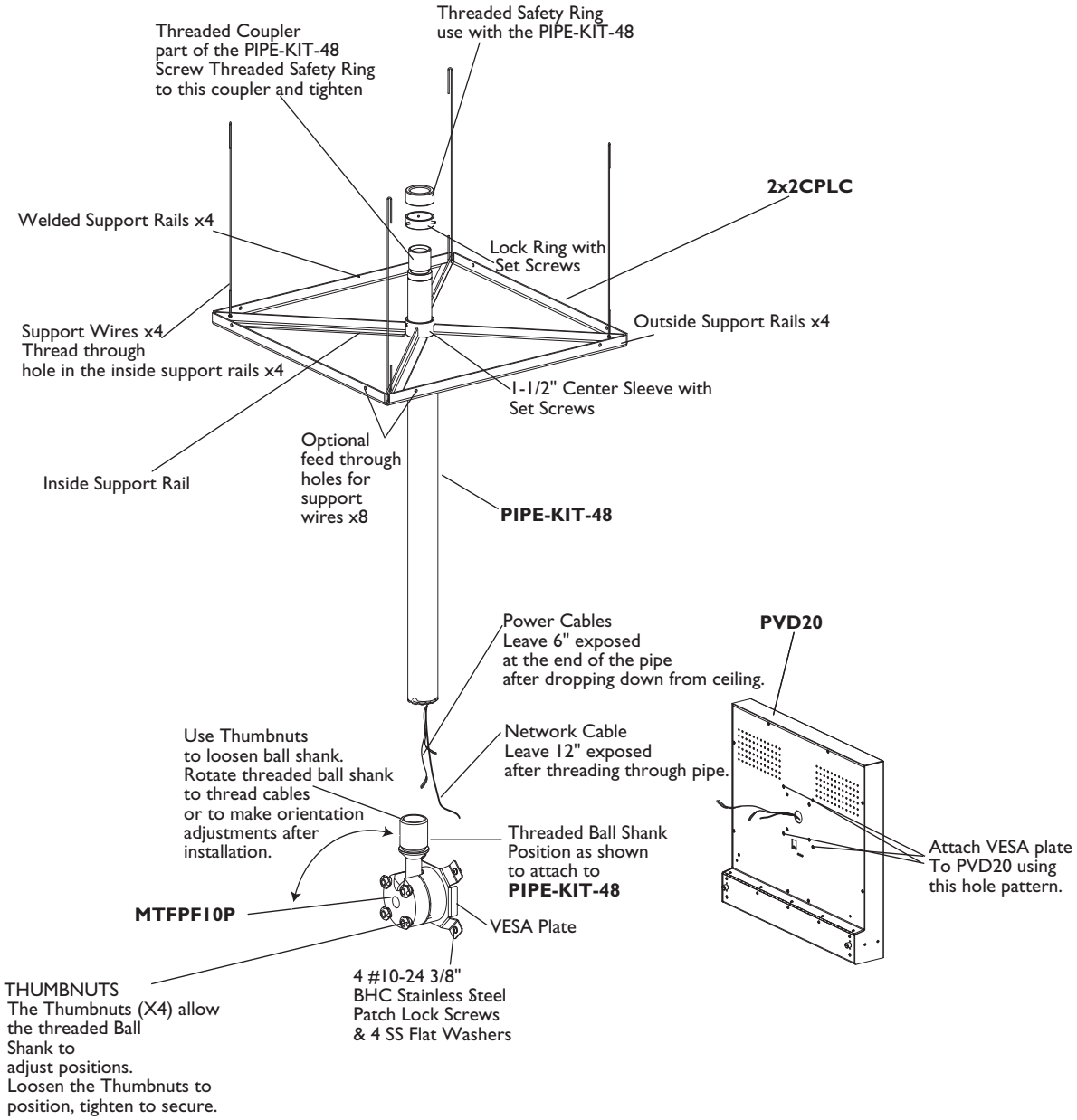


Figure 1: PVD-MK - Ceiling Assembly

1. Remove existing 2' X 2' ceiling tile, if necessary.
2. Place the 2x2CPLC into the grid (channel side up) and align.
3. Attach the safety/support wiring by threading one wire through each of the 4 inside feed through holes on the welded support rails. The outside rail feed though holes can be used if there is a need. See **Figure 1**. After threading the safety wires attach to a secure weight bearing location above.
4. Slide the PIPE-KIT-48 up through the center sleeve coupler in the ceiling tile. Slide the Lock Ring with set screws onto the pipe. Screw the safety ring onto the pipe and tighten around the threaded coupler. Gently allow the pipe to slide down through the sleeve hole in the tile until it stops. Do not tighten the set screw in the 1- 1/2" sleeve in the ceiling tile at this time. The pipe should be loose and able to turn in place.
5. Run all leads and cables down through the pipe from the ceiling towards the floor. Leave 6-inches of the power cables exposed, leave 12-inches of the network cable hanging from the end of the pipe. Stagger the length of the power leads by stripping the outer jacket back 4-inches. Cut one lead 2-inches. Strip the ends of each lead 3/8-inch to 1/2-inch to allow for connections. See **Figure 2**.

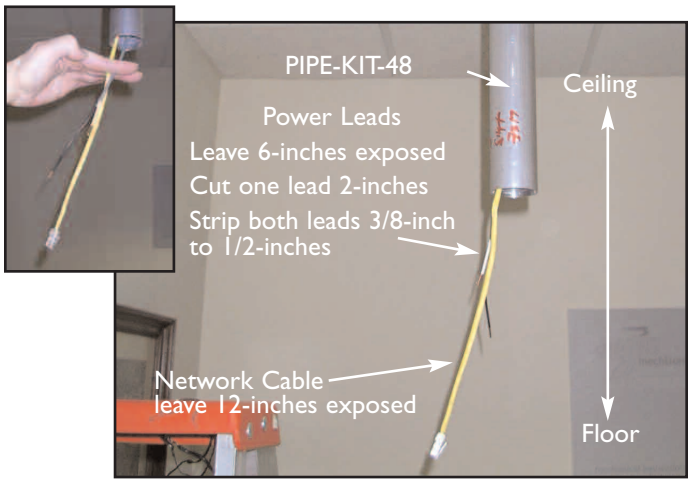


Figure 2

6. Attach the grey connectors as shown in **Figure 3** to the power leads by squeezing one end and inserting the lead, release to attach.

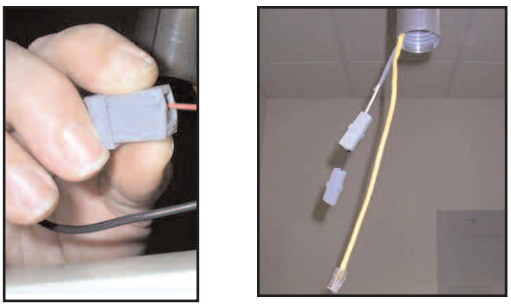


Figure 3

7. On the MTFPF10P loosen the thumbnuts to allow the threaded shank to rotate. Angle the threaded shank slightly to allow the cables and leads from the back of the PVD20 to be inserted into the hole in the middle of the Vesa plate. Thread the leads up through the mount and pull through the top of the shank. While holding the wires in place move the shank to the 12 o'clock position and tighten the thumbnuts. See **Figure 5** for the 12 o'clock position.

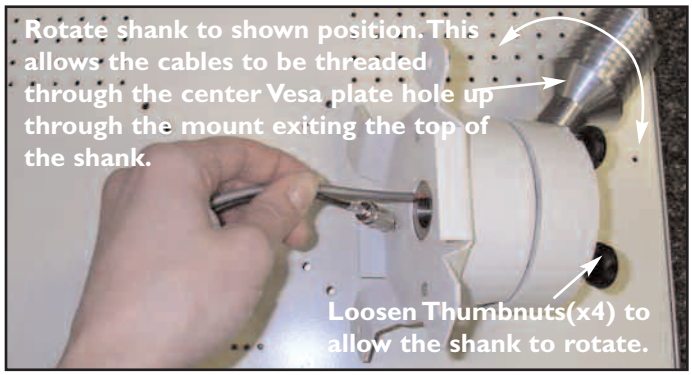


Figure 4

8. Align the holes in the Vesa plate with the hole pattern on the back of the PVD20. Using the screws provided (4 #10-24 3/8" BHC Stainless Steel Patch lock screws and 4 SS flat washers), attach the MTFPF0-TW to the PVD20 using a 1/8-inch allen wrench to tighten. See **Figure 1** for locations. See **Figure 5** for the completed example.

Figure 5

9. Thread the network cable through the MTFPF10P as shown in **Figure 6**.

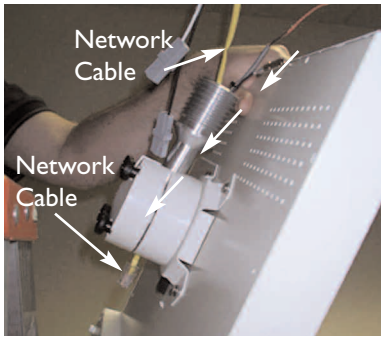


Figure 6

10. Make the power connection from the PVD20 to the leads hanging from the pipe by squeezing the open end of the gray connector and inserting one power lead from the PVD20 into it. Release to attach. Repeat for the other power lead.

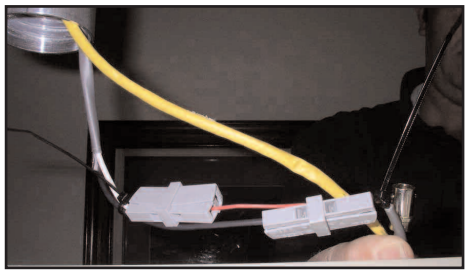


Figure 7

11. Tie the two wires together near the grey connectors. This will allow for them to easily slide up through the pipe and not become disconnected.

12. Attach the MTFPF10P to the PIPE-KIT-48 by tucking the leads up into the pipe and aligning the threaded pipe with the threaded ball shank on the PVD20. Rotate the pipe to thread onto the shank and continue until tight.

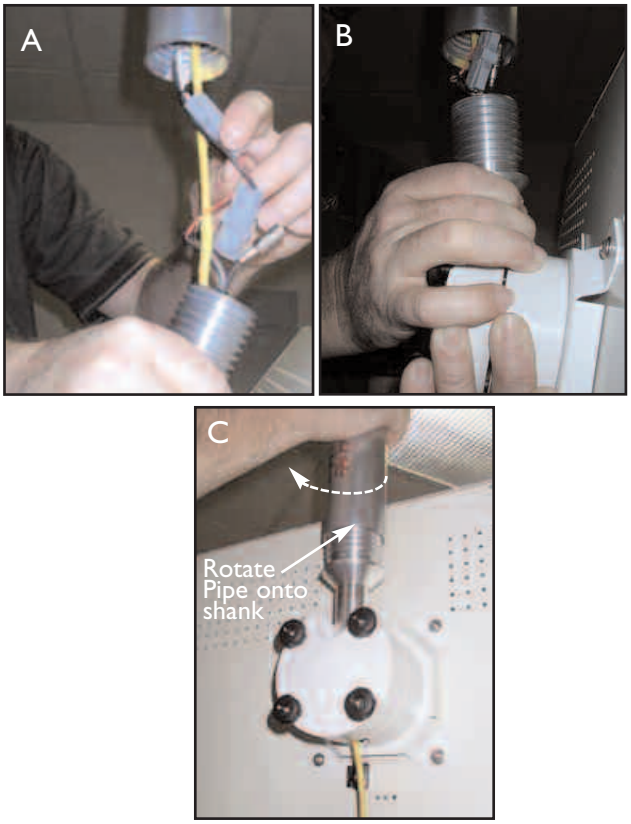


Figure 8

13. Connect the network cable as shown in **Figure 9**.

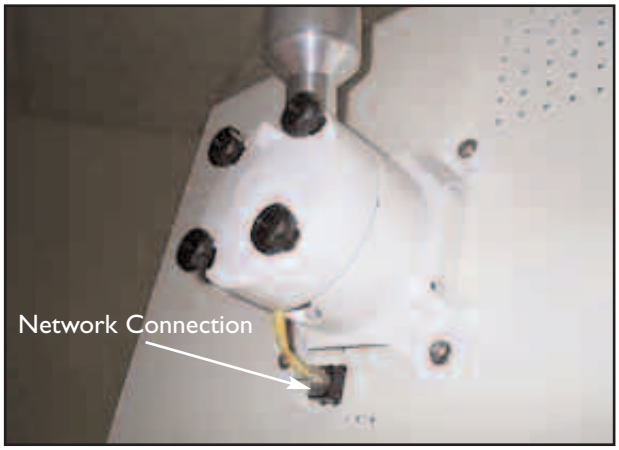


Figure 9

14. After the PVD20 is attached to the pipe, adjustments can be made to the orientation of the unit. Do this by sliding the pipe up or down and rotating the pipe left or right through the tile plate. Tilting the ball shank after loosening the thumbnuts will angle the unit. When proper orientation is achieved tighten the set screws in the Lock Ring above the ceiling and tighten the center hole sleeve to secure the pipe.

4.2 Installing the PVD-MK - Truss

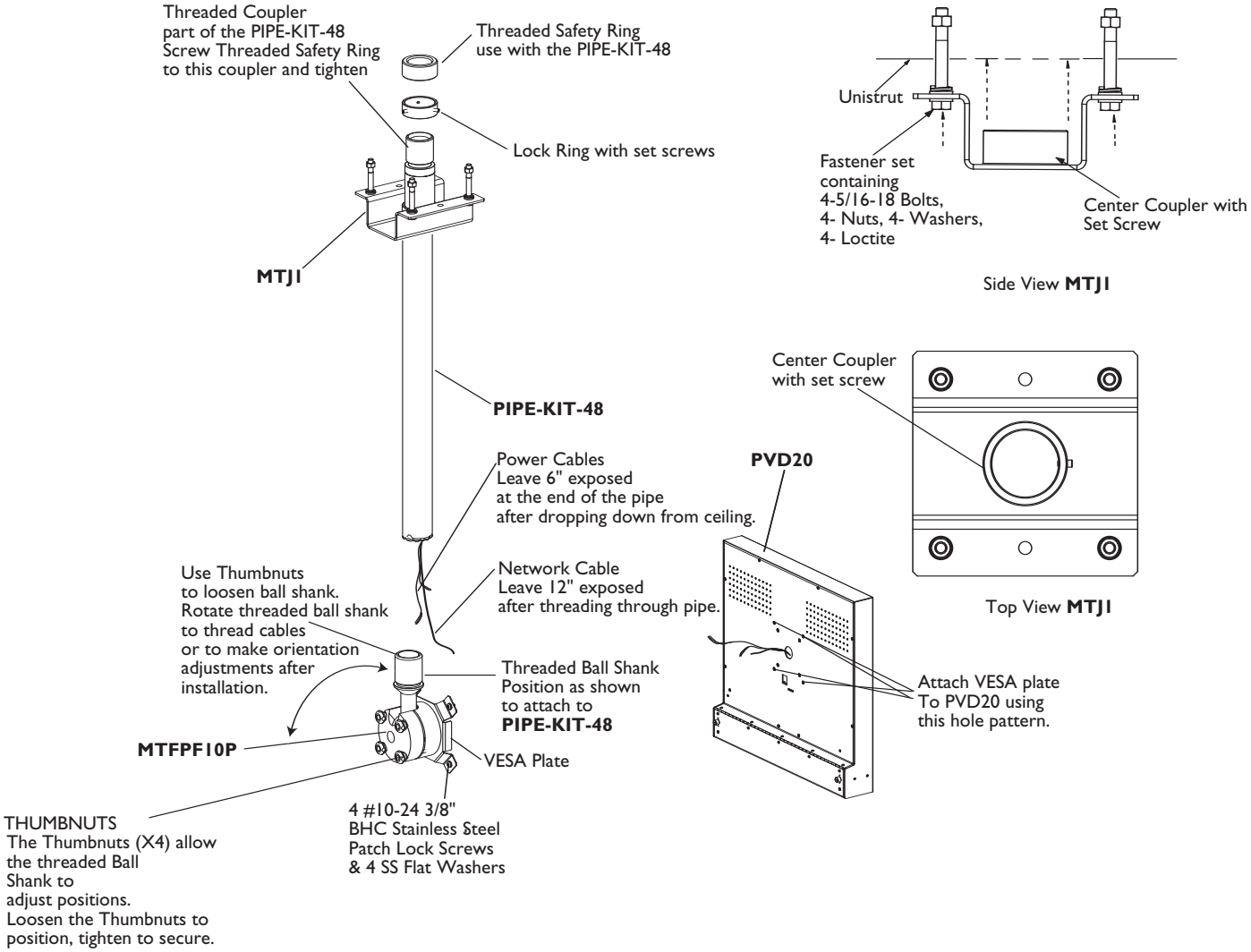


Figure 10: PVD-MK - Truss Assembly

1. Attach the MTJ1 truss mount to the Unistrut ceiling structure with the fasteners provided. See **Figure 10** side view.
2. Slide the PIPE-KIT-48 up through the center coupler with set screw. Slide the lock ring with set screws onto the pipe. Screw the safety ring onto the pipe and tighten around the threaded coupler. Gently allow the pipe to slide down through the center coupler hole in the truss until it stops. Do not tighten the set screw in the center coupler at this time. The pipe should be loose and able to turn in place.
3. Run all leads and cables down through the pipe from the ceiling towards the floor. Leave 6-inches of the power cables exposed, leave 12-inches of the network cable hanging from the end of the pipe. Stagger the length of the power leads by stripping the outer jacket back 4-inches. Cut one lead 2-inches. Strip the ends of each lead 3/8-inch to 1/2-inch to allow for connections.

   See **Figure 11**.

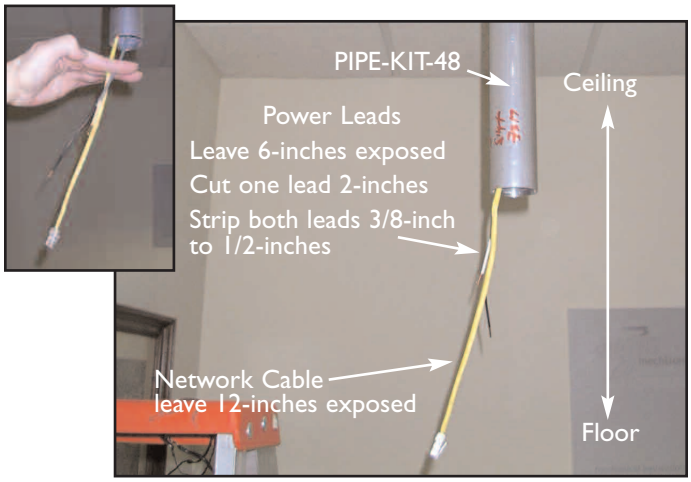


Figure 11

4. Attach the grey connectors as shown in **Figure 12** to the power leads by squeezing one end and inserting the lead, release to attach.

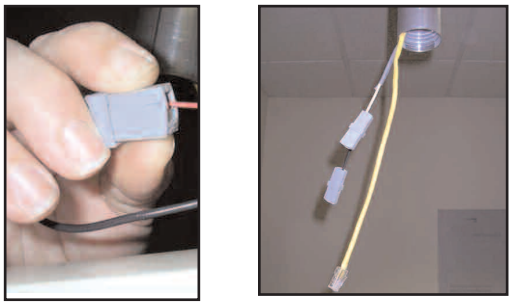


Figure 12

5. On the MTFPF10P loosen the thumbnuts to allow the threaded shank to rotate. Angle the threaded shank slightly to allow the cables and leads from the back of the PVD20 to be inserted into the hole in the middle of the Vesa plate. Thread the leads up through the mount and pull through the top of the shank. While holding the wires in place move the shank to the 12 o'clock position and tighten the thumbnuts. See **Figure 14** for the 12 o'clock position.

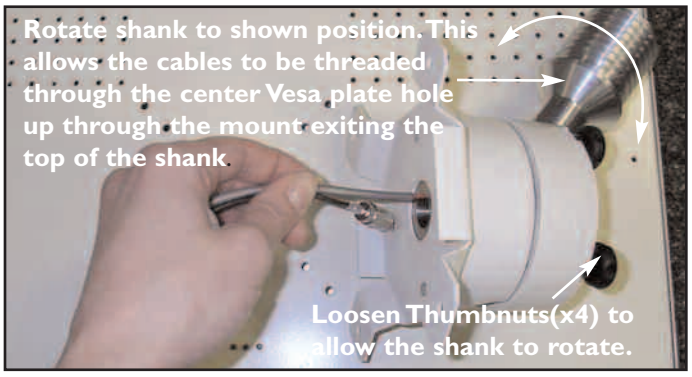


Figure 13

6. Align the holes in the Vesa plate with the hole pattern on the back of the PVD20. Using the screws provided (4 #10-24 3/8" BHC Stainless Steel Patch lock screws and 4 SS flat washers), attach the MTFPF10P to the PVD20 using a 1/8-inch allen wrench to tighten. See **Figure 10** for locations. See **Figure 14** for the completed example.

Figure 14

7. Thread the network cable through the MTFPF10P as shown in **Figure 15**.

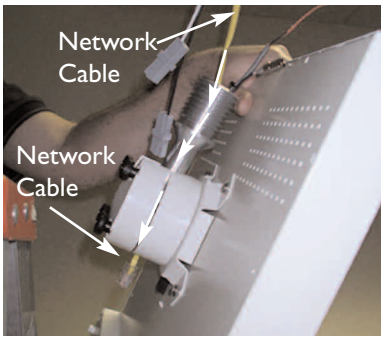


Figure 15

8. Make the power connection from the PVD20 to the leads hanging from the pipe by squeezing the open end of the gray connector and inserting one power lead from the PVD20 into it. Release to attach. Repeat for the other power lead.

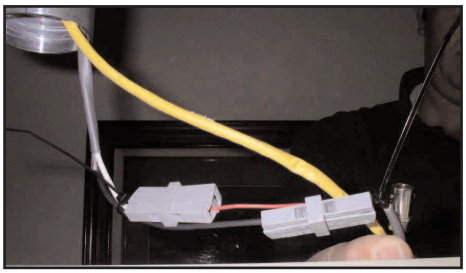


Figure 16

9. Tie the two wires together near the grey connectors. This will allow for them to easily slide up through the pipe and not become disconnected.

10. Attach the MTFPF10P to the PIPE-KIT-48 by tucking the leads up into the pipe and aligning the threaded pipe with the threaded ball shank on the PVD20. Rotate the pipe to thread onto the shank and continue until tight.

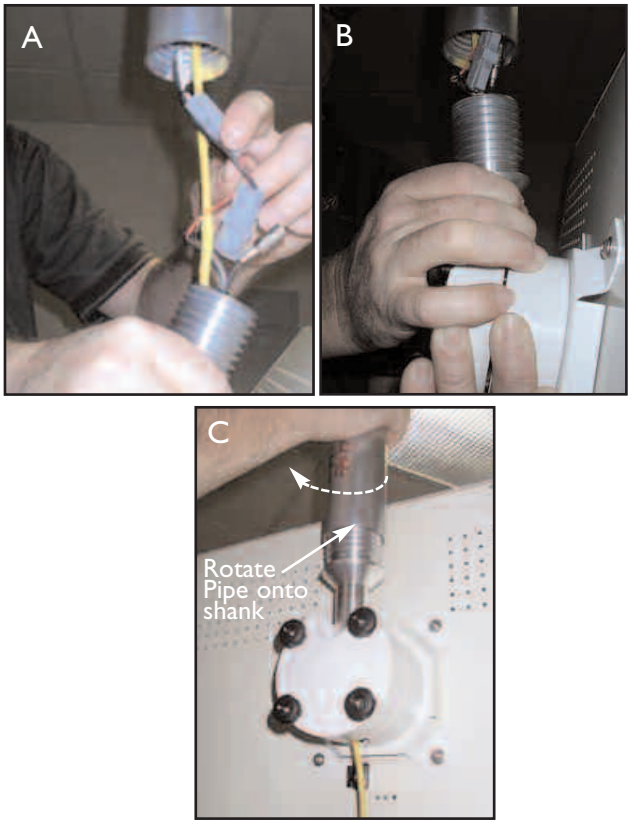


Figure 17

11. Connect the network cable as shown in **Figure 18**.

Figure 18

12. After the PVD20 is attached to the pipe, adjustments can be made to the orientation of the unit. Do this by sliding the pipe up or down and rotating the pipe left or right through the truss. Tilting the ball shank after loosening the thumbnuts will angle the unit. When proper orientation is achieved tighten the set screws in the Lock Ring and tighten the center coupler to secure the pipe.

4.3 Installing the MTFPF12F

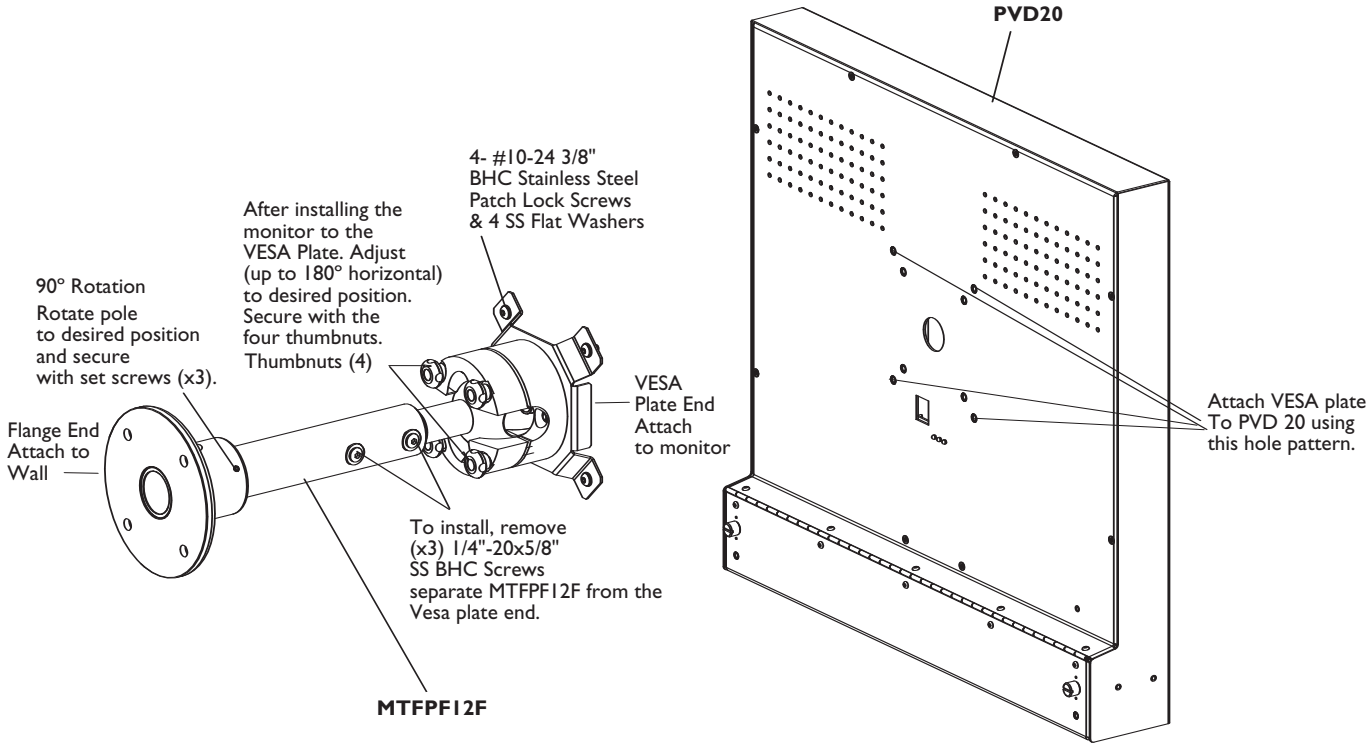


Figure 19: MTFPF12F Wall Mount Assembly

1. Remove the 3 1/4-20x5/8" SS BHC Screws from the MTFPF12F separating the Flange End from the Vesa Plate end of the mount.
2. Feed the wires from the back of the PVD20 up through the center hole in the Vesa plate. If necessary loosen the thumbnuts to allow the ball shank to rotate and to allow the wires to pass through. See **Figure 20** for position. Reposition the ball shank to original position, after the wires are fed through. See **Figure 21** for original position.

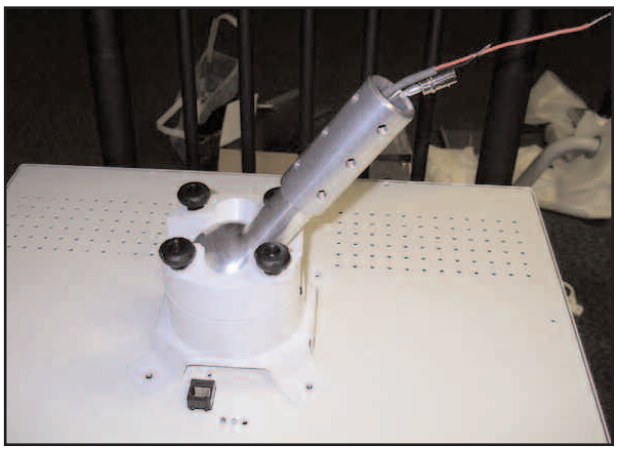


Figure 20

3. Align the holes in the Vesa plate with the hole pattern on the back of the PVD20 keeping in mind the orientation of the PVD20 after installation. Using the screws provided (4 #10-24 3/8" BHC Stainless Steel Patch lock screws and 4 SS flat washers), attach the Vesa plate to the PVD20 using a 1/8-inch allen wrench to tighten. See **Figure 19** for locations. See **Figure 21** for the completed example.

Figure 21

4. Mount the flange end of the MTFPF12F to the wall using the appropriate fasteners (not provided).
Note: It is recommended to use four (4) 3/8" bolts.
See **Figure 22.**

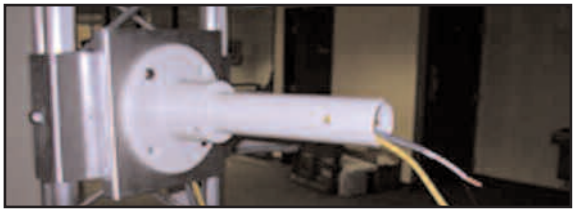


Figure 22

5. Feed wires and cable through the MTFPF12F. Leave 6-inches of the power cables exposed, leave 12-inches of the network cable hanging from the end of the pipe. Stagger the length of the power leads by stripping the outer jacket back 4-inches. Cut one lead 2-inches. Strip the ends of each lead 3/8-inch to 1/2-inch to allow for connections.

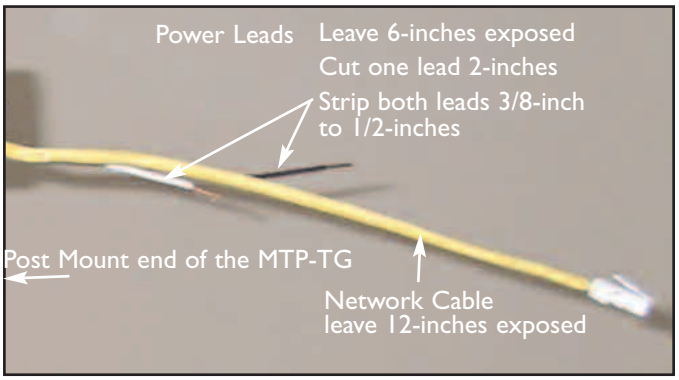


Figure 23

6. Attach the grey connectors as shown in **Figure 24** to the power leads by squeezing one end and inserting the lead, release to attach.

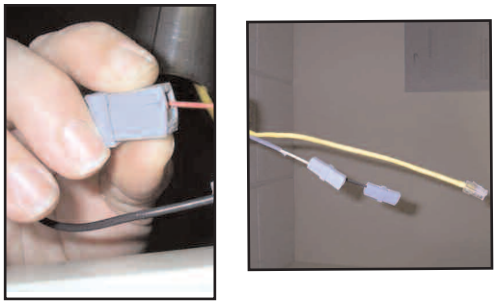


Figure 24

7. Make the power connection from the PVD20 to the leads hanging from the Post Mount End by squeezing the open end of the gray connector and inserting one power lead from the PVD20 into it. Release to attach. Repeat for the other power lead.

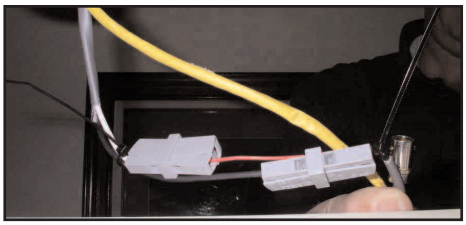


Figure 25

8. Tie the two wires together near the grey connectors. This will allow for them to easily slide up through the mount and not become disconnected.

9. Make the network connection by looping the cable out of the ball shank opening and plugging it in the network outlet in the PVD20.

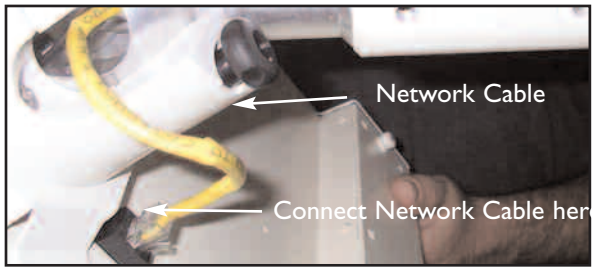


Figure 26

10. Attach the PVD20 to the MTFPF12F by tucking the leads up into the shaft of the MTFPF12F and aligning the hole pattern for the (x3) 1/4"-20x5/8"SS BHC Screws. Replace the screws and tighten.

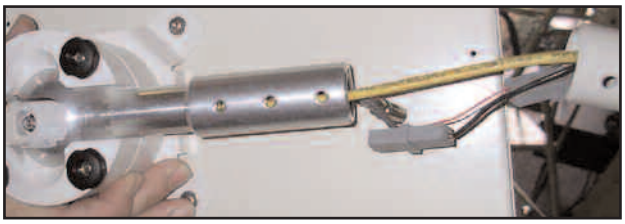
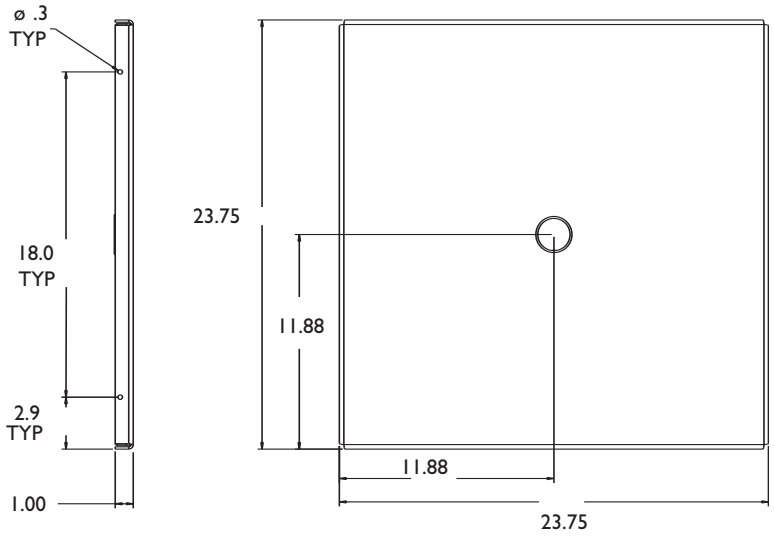


Figure 27

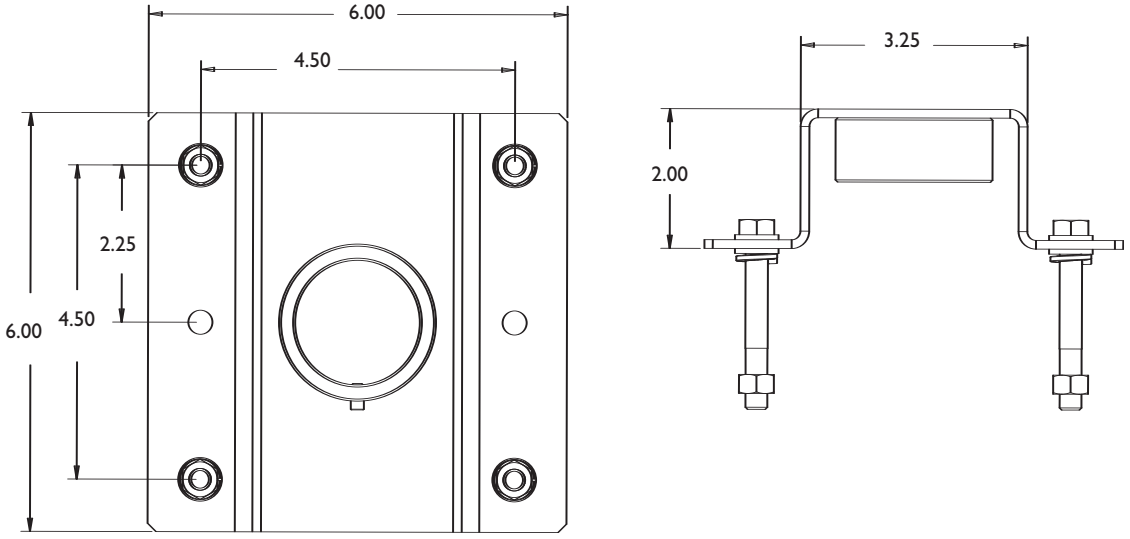
11. Rotate the pole to the desired position and secure using the three (3) set screws. See **Figure 19** for locations.

12. Rotate the monitor to the desired position and secure using the four (4) thumbnuts. See **Figure 19** for locations.

5 DIMENSIONAL OUTLINES

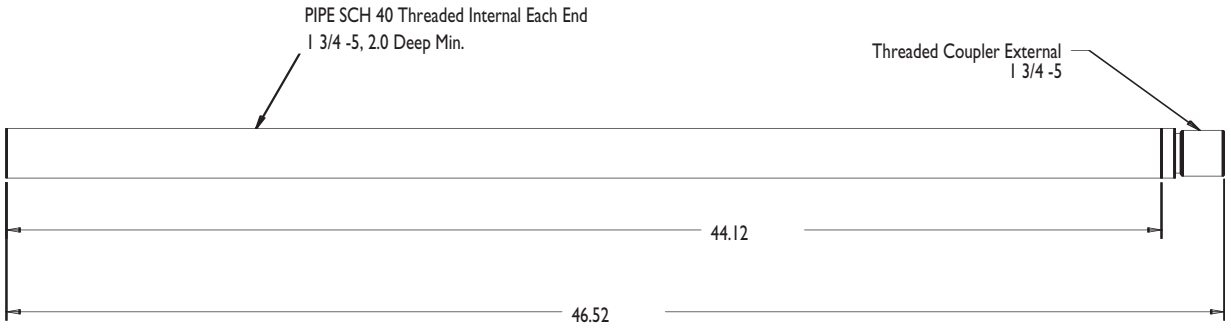


Dimensional Outline 2x2CPLC Ceiling Plate



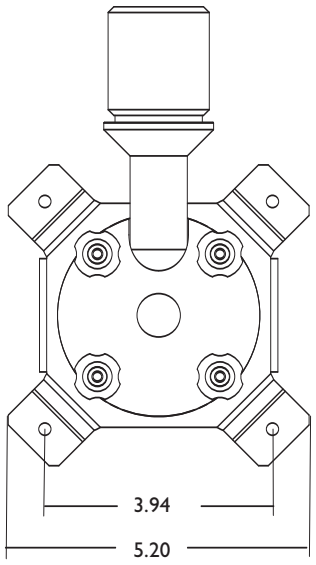
Inch

Dimensional Outline MTJ1 Truss Mount

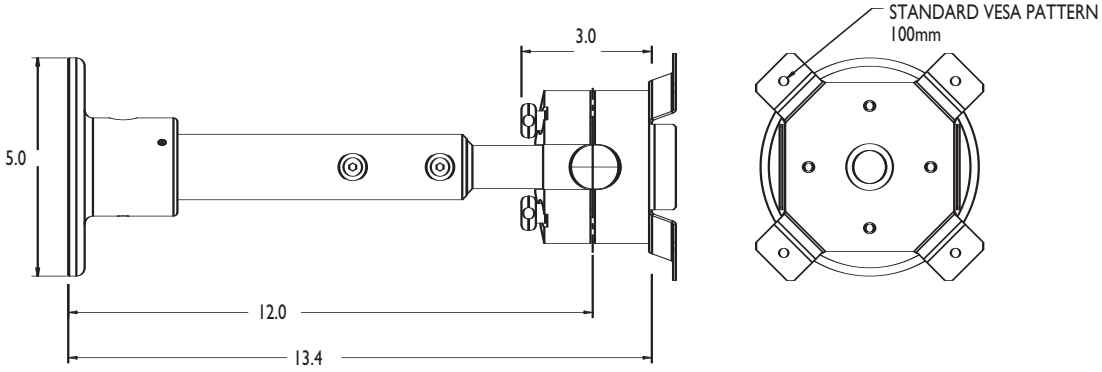


Dimensional Outline PIPE-KIT-48

DIMENSIONAL OUTLINES (Continued)



Dimensional Outline MTFPF10P



Dimensional Outline MTFPF12F

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