MultiDyne®

Video & Fiber Optic Systems

PTZK-VB10
PTZK-VB6
PTZK-VB4

Pan-Tilt-Zoom Mounting Kit for VB Frames Series 2

INSTALLATION MANUAL

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Document Revisions

Revision	Description	Date	Author
A	Initial	5/6/2023	DL

1. Overview

Multidyne Pan-Tilt-Zoom Mounting Kits use the Versatile LightBrix modular interface to securely attach a PTZ camera onto a VB enclosure, and to a tripod or ceiling (for a fixed installation). VB enclosures come in different sizes; currently PTZK-VB kits support VB4, VB6 & VB10 formats. Part numbers are:

- PTZK-VB10 (for VB10 enclosures)
- PTZK-VB6 (for VB6 enclosures)
- PTZK-VB4 (for VB4 enclosures)

2. PTZK-VBx content

All PTZK-VBx kits come with the same elements, which vary in size depending on the VB enclosure format. They are:

- PTZK-VBx Camera Plate
- PTZK-VBx Tripod Plate
- Hardware Kit consisting of sixteen 4-40 x 1/4in long pan head screws
- This Installation Manual

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3. Installation

3.1.   PTZ Camera Preparation

Most PTZ cameras are designed with mounting holes on the bottom side. The PTZK-VBx Camera Plate has been designed to accommodate most camera brands. The first step is to attach your camera to the PTZK-VBx Camera Plate. Screws for this are not included; you need to refer to your camera installation instructions, which specify the type of screws and maximum penetration allowed. Once you procure the appropriate screws, install the plate on your camera as shown in figure A.
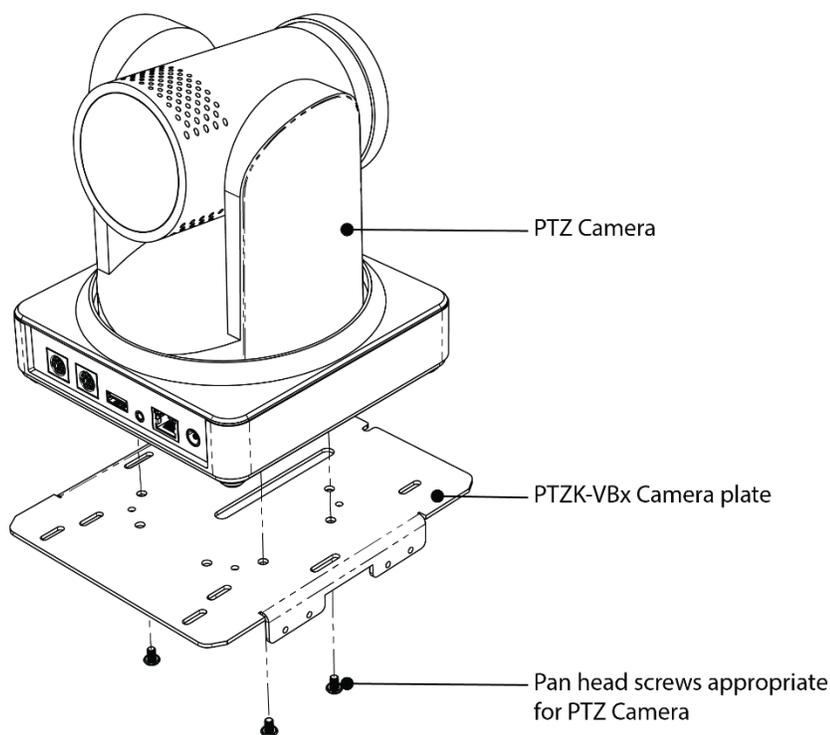
PTZ Camera

PTZK-VBx Camera plate

Pan head screws appropriate for PTZ Camera

Figure A: Installing the camera plate on the PTZ camera

3.2.   Tripod Preparation

Next is attaching the tripod platform plate to the PTZK-VBx Tripod/Ceiling Plate. Most tripod heads come with a sliding or quick-lock platform plate as shown on figure B below, and include the ¼-20 or 3/8-16 captive screws to attach the plate to your device. You will need nuts of the corresponding size* to fix the platform plate to the PTZK-VBx Tripod/Ceiling Plate as shown below.
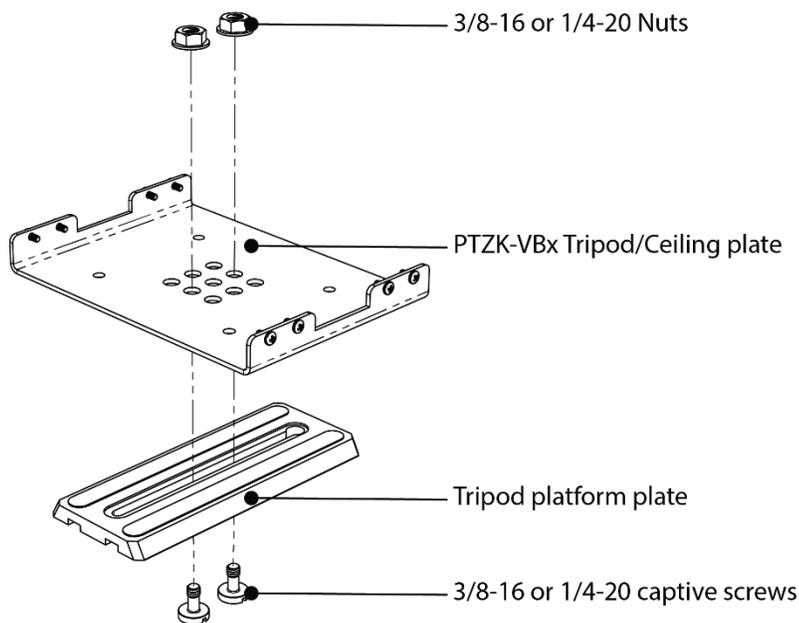

—— 3/8-16 or 1/4-20 Nuts

—— PTZK-VBx Tripod/Ceiling plate

—— Tripod platform plate

—— 3/8-16 or 1/4-20 captive screws

Figure B: Installing the platform plate on the PTZ camera

Note: if you plan to mount the PTZ camera to the ceiling, step 3.2 can be skipped. The PTZK-VBx Tripod/Ceiling Plate has 4 mounting holes, one in each corner, that you can use to secure the plate to your ceiling structure. Ensure you are securing the plate properly as the total weight of the PTZ camera and VB enclosure is significant.

*: if using 3/8-16 captive screws, you will need a low-profile nut to fit in the space allowed.

3.3.   Attaching the PTZ camera to the VB enclosure

Place the PTZ camera assembly on top of the VB enclosure. Ensure that the connector side of the camera is on the same side as the connector side of the VB enclosure. Use eight of the sixteen 4-40 x 1.4in long pan head screws to attach them as shown on figure C. At this point you may cable the desired connectors between the PTZ camera and the VB enclosure.
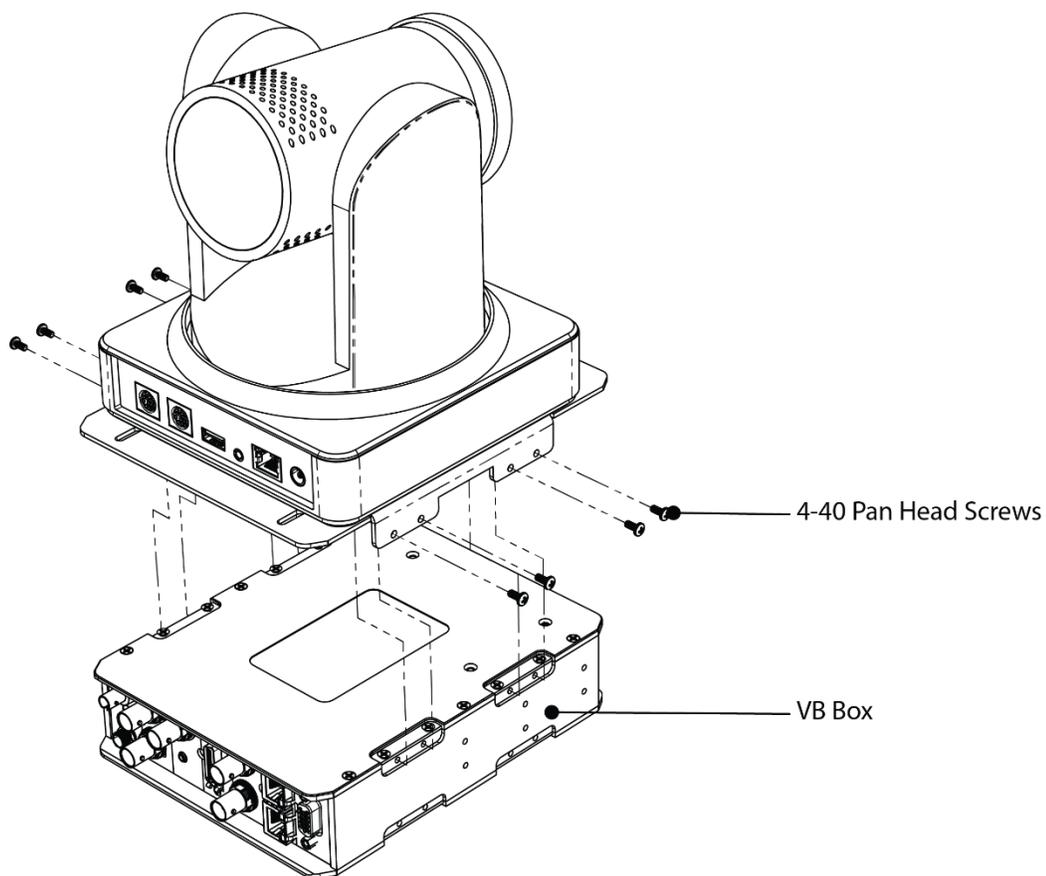

4-40 Pan Head Screws

VB Box

Figure C: Installing the PTZ camera on the VB enclosure

3.4.   Attaching the tripod plate to the VB enclosure

Do the same thing with the tripod plate assembly and attach it to the other side of the VB enclosure using the remaining eight 4-40 x 1/4in long pan head screws.
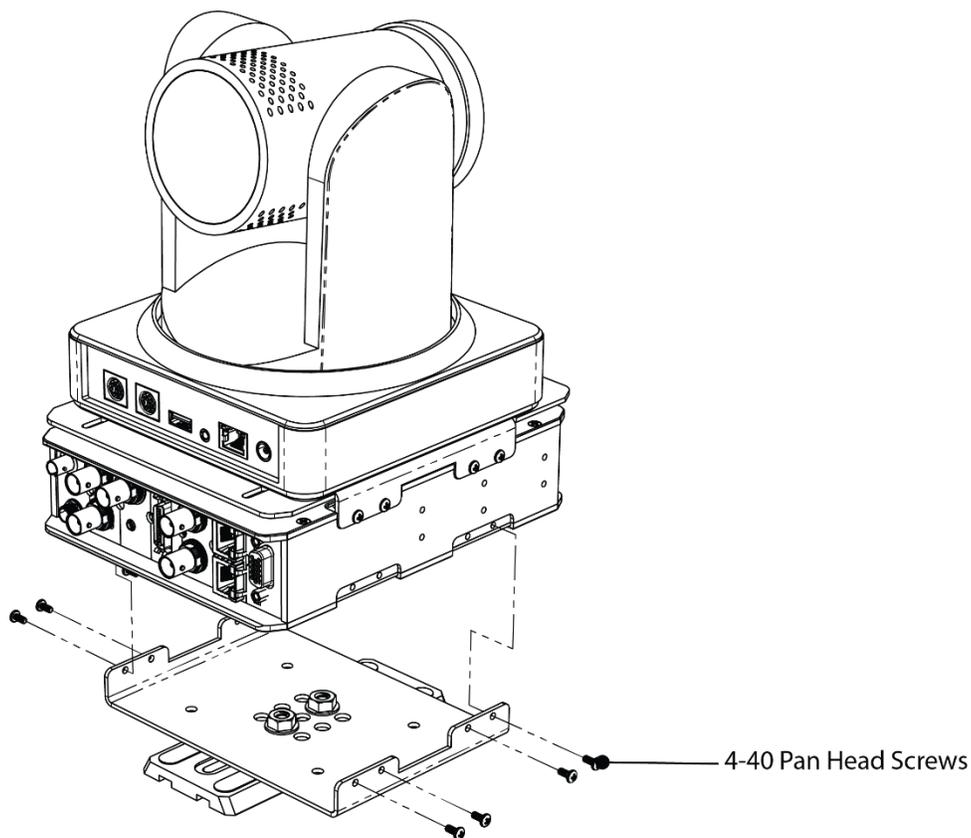

4-40 Pan Head Screws

Figure D: Installing the PTZ camera on the VB enclosure

Note: in the case of a ceiling installation, you perform the same assembly shown above, but upside-down.

3.5.   Slide the PTZ/VB assembly on the tripod

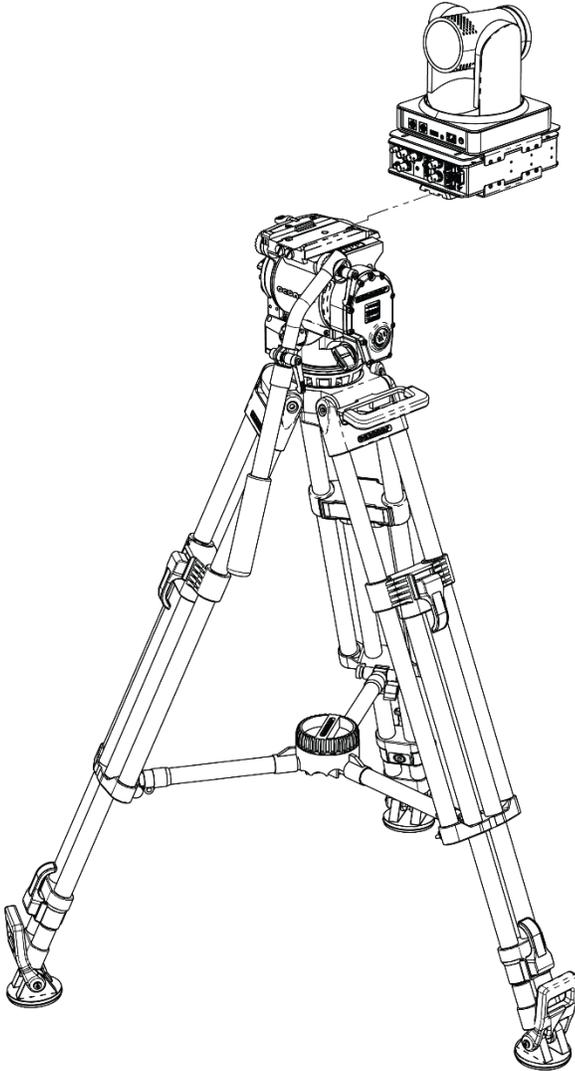Once the PTZ/VB assembly is complete, slide the platform plate onto the tripod head rail and lock it in place.

Figure E: Slide the PTZ/VB assembly on the tripod head

Contact Info

For support, please contact us by email at support@multidyne.com

Contact Info