

PTZOptics Outdoor Camera Enclosure Quick Start Guide



In this video, we will review two new vandal-proof, IP68 rated, camera enclosures available for PTZOptics cameras and a new outdoor microphone system. PTZOptics cameras are rated for indoor use, but with Dotworkz professional outdoor camera enclosures you can take your broadcast-quality cameras into the great outdoors! This video will only review the enclosures and how to mount a PTZOptics camera inside of them. Please refer to the enclosure manual or watch our outdoor camera enclosure mounting video in the links below before attempting to mounting these enclosures outdoors.

The first model here is the PTZO-BASE which is generally recommended for indoor use OR temporary outdoor use. This enclosure is ideal for areas where you want to keep the cameras safe from flying objects or potential vandalism. A perfect example would be a school gymnasium. It is also ideal for outdoor setups where you want to keep your cameras protected from potential rain or snow during an event but do not need to permanently install them in an outside location. The second model here is the PTZO-HB. This enclosure has been designed for outdoor use in a variety of environments. The HB in PTZ-HB standards for heater blower which is included inside the unit. This enclosure has been designed for outdoor use in colder environments. The heater blower unit is ideal for removing condensation or fog that can accumulate on the enclosure lens and prevent the cameras from capturing clear video. Both enclosure models are designed to mount the cameras safely and securely for the PTZOptics SDI, NDI, and of course the USB cameras.

The first thing you should do when un-packing your Dotworkz enclosure is to read through the included manual. Once you have read through the included manual you can open up the enclosure using a standard Phillips head screwdriver or electric drill. You will notice on the side of each unit that there is a weather-tight cable pathway you can use to extend Ethernet, SDI, and other cables through to connect to your camera. Once you have decided which cables you want to bring into your enclosure and you can start by pulling the wires through this weathertight port. The port is small and you will likely need to run un-terminated cables. Once the raw cables are inside your enclosure you can terminate the cables and add the connection ends. Open the vent stop plug and install it over the wire. You can pinch the plug to compress it over the wire and insert it into the conduit feed mouth. To assure an airtight seal, consider using caulk around the wires and cables, coating the entire plug surface with sealant.

Next, you can mount your PTZOptics camera to the black camera bracket using the center hole with the included quarter-twenty screw and a single washer. The PTZOptics cameras require 2" of spacing for optimal fit and operation. Use one 1.5" and one .5" standoff screws to create the 2 inches of spacing between the enclosure and the bracket. You will need to create four of these with the included hardware and insert them into the designated holes inside the enclosure. Next you can mount your camera attached the mounting bracket into these holes.

Once your camera is firmly mounted inside the enclosure you can connect the cables you have into your camera. Before closing the enclosure make sure everything is working properly. Once you have confirmed all cabling is working you can close your enclosure using the Philips head screwdriver or electric drill you used to open the unit.

If you are installing the camera outdoors with a heater blower unit, you will need to determine how you will power it. The enclosures can be powered with 110-220 VAC or low voltage 24 VAC / VDC. Inside the PTZO-HB unit, you will find a step-down voltage to power the PTZOptics cameras via the 12V power port. You can also power PTZOptics NDI and SDI cameras with an ethernet cable connected to power over ethernet switch.



Finally, you will notice that the outdoor enclosure includes a weatherproof microphone. This microphone is ready for installation in an outdoor environment. You can use the second weathertight port on the enclosure to bring this cable into the enclosure. Start by removing the plastic insert on the enclosure and running the 3.5-millimeter audio cable into the enclosure. You can secure each side of the port with the included plastic screw-caps. You can then securely attach the included weathertight port to the enclosure. This outdoor microphone has been designed to be mounted within 1-2 feet of the camera enclosure.

Now that you have installed your PTZOptics camera into a weather-tight enclosure, it is now time to mount your enclosure. Please refer to the Dotworkz manual and review our next video on mounting this enclosure outdoors at the link below.