

Junction Box Installation Guide

This is a simple how to guide for installing a camera with a junction box.

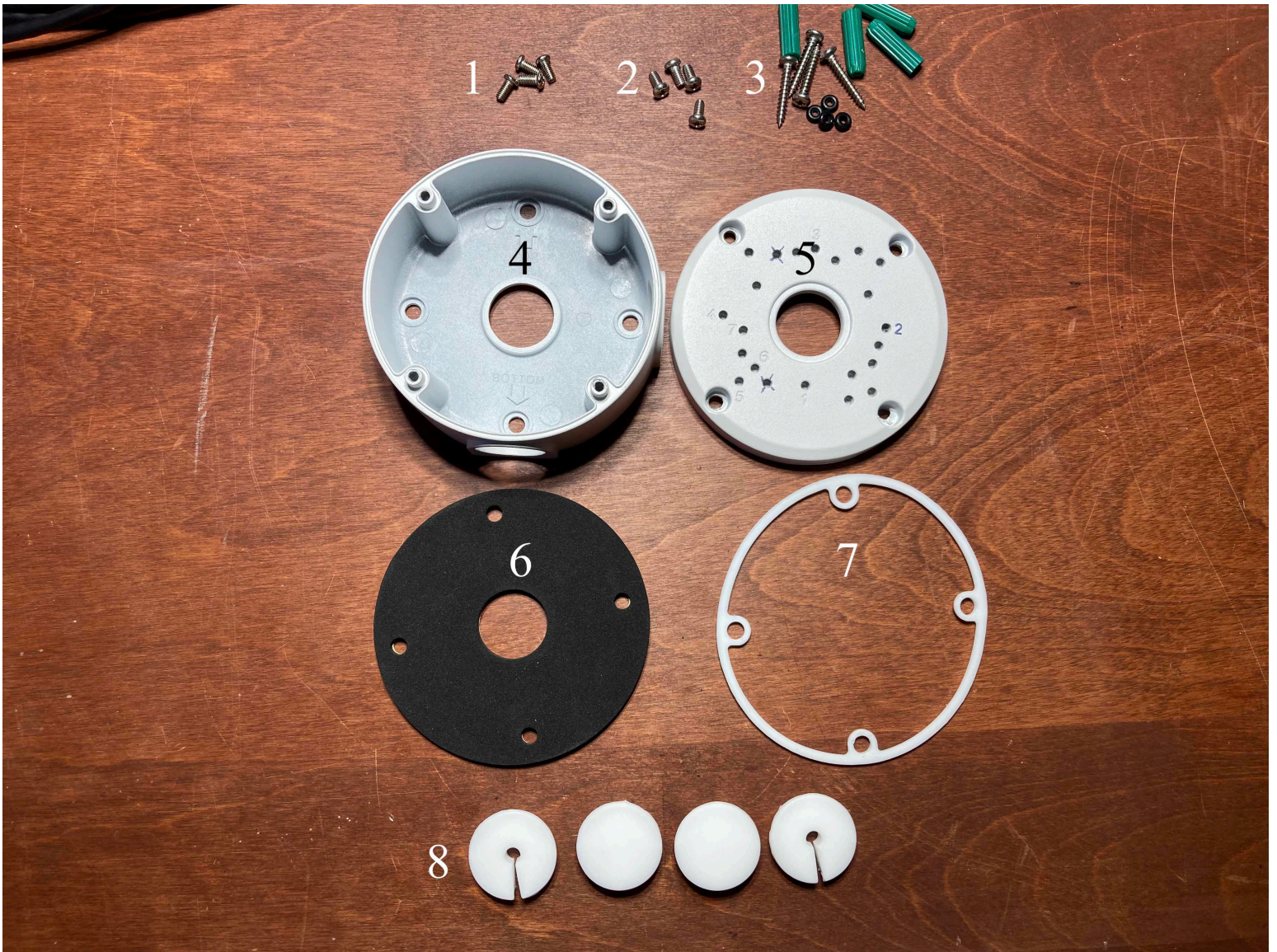
Any local codes/rules for junction box installation are to supersede this guide. Follow all local codes/rules!

These junction boxes are designed to have the cameras mounted directly on them.



Here are the components of the box:

1. Camera mount screws
2. Lid screws
3. Box mount screws
4. Junction box body
5. Junction box lid
6. Junction box mounting pad
7. Junction box lid seal
8. Junction box input seals.



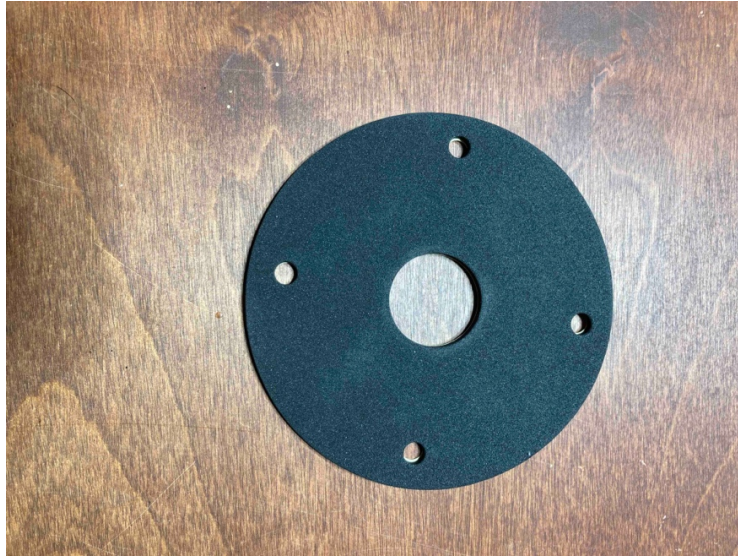
These junction boxes are compatible with conduit. If using conduit, remove the junction box input seal to allow conduit to insert. Place the full junction box input seals on the rear input, and un-used conduit input.



If no conduit used, place the full junction box seals on the conduit inputs. Use the cable input junction box seals (hole in center w/ slit) on the rear input to the housing.



Mount the junction box to the wall by using the mounting pad as a template. Remove the adhesive cover and stick the pad on the desired location. If the hole for the cable already exists, line the center hole on the pad over existing hole. If no hole exists, use the center hole as a drilling reference (Please be sure that your drilling path is clear of behind the wall obstructions like pipes, framing, & wiring before drilling). Use the 4 smaller holes as templates for the mounting screws.



For rear cable input, run the cable through the mounting pad and into the rear of the junction box. The cable input junction box seal can be easily removed and replaced so that the cable can be easily run with a small amount of cable (~8") left inside the box for service purposes.

For conduit cable input, feed the cable into the junction box. Also leave a small amount of cable (~8") inside the box for service purposes.



Attach the junction to the wall with the included mounting screws. **Make sure that the one of conduit inputs is facing downward (the other will be facing sideways). Even when sealed, an upward facing conduit input is subject to leaks and can compromise the connection within.**

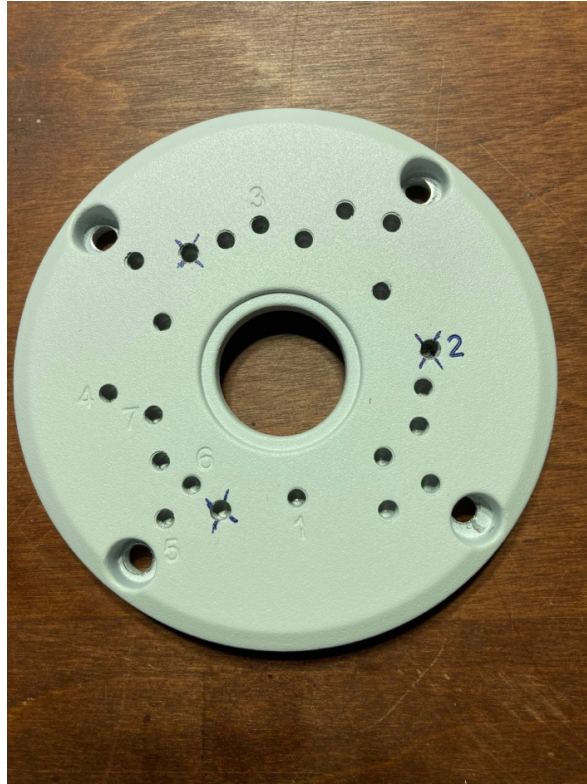
Note that there are 4 small, black, rubber rings for the mounting screws.



Please place the rubber rings at the top of the screws. This helps seal the mounting hole when the screws are drilled in to place.



Once the junction box housing has been mounted, now attach the camera to the lid. This has various predrilled locations for various types of cameras. If using the iDogCam standard camera (Reolink RLC-510) the predrilled mounting holes are associated with the number 2 on the lid. In this photo there are also “x” marks across the corresponding holes for mounting. Please reference as your junction will not have the “x” marks or highlighted 2.



Thread the bulk of the cable coming off the camera through the center hole on the lid. Once most of the cable is through, place the 2nd cable input junction box seal around the cable and fit the seal into the center hole (Making sure the larger side of the seal is on the outside of the lid).



Slowly pull the remaining cable through the seal. Line up the holes for mounting the base of the camera to the lid. Screw down the camera with the screws provided WITH the junction box, NOT the screws provided with the camera.

You may loosen the knob at the base of the camera so that you can easily move the camera around to screw the base to the lid.

Please note the placement of the notch in the base of the camera mount once it is attached to the lid. This notch is not needed in this mounting style. BUT it must be placed at the bottom, or as downward facing as possible, when mounting the lid to the junction box body. If not, moisture will collect within the space between the camera base and lid. It will then leak into the junction box over time causing the connection between the cable and camera to corrode and fail. This notch may also be sealed with silicone as an added precaution.



Prior to placing the lid on the junction box, verify that the junction box lid seal is in place. The seal is designed with a ridge on its center that will fit inside a groove on the edge of the junction box body. This exposes a flat surface for the lid to compress into.



Connect the camera to the network cable.



Coil up the excess network cable (~8"), along with the tail of the cable coming off the camera, inside the junction box. Line up the screw holes on the lid to the holes on the body (Remembering to make sure the notch on the base of the camera mount is as downward facing as possible). Tighten the junction box lid to the body with the provided lids screws.

Adjust the camera as needed. Tighten down the knob at the base of the camera mount to lock the camera in place.

