Dotworkz D2 Externally Mounted Dome Bubble - Installation Guide

Open D2 Housing, and remove existing dome bubble using a Philips head screw driver (#1) and remove 12 small #6 plastic screws around optical dome seat on perimeter of D2 Optical dome bubble. Remove silicone rubber seal. Both the dome & seal can be saved for future potential use as replacements domes if new domes are damaged or scratched; if so protect & save.(*Images 1&2 on next pg*)

Once the existing dome bubble is removed; Prepare Housing for new External dome installation.

Surface Preparation for 3M™ VHB™ Tape

3M VHB (Very High Bond) Tape is a double stick foam adhesive tape system for heavy duty bonding and sealing applications.

Please familiarize yourself with 3M's recommended installation instructions online prior to installing this product:

[3M VHB Online Installation Guide](#)

Installing Externally Mounted D2 Dome is a simple PEEL-N-STICK Installation, but follow these details for best results:

Dotworkz housing seal surface is best prepared by *first lightly sanding bonding surface with fine sand paper*; (Image 3)

Abrasion: Abrading area / surface where dome seal seat will mount, followed by cleaning with IPA/water (a 50:50 mixture of isopropyl alcohol (IPA) and water) and wiping dry with a clean soft rag, prior to applying 3M™ VHB™ Tape. This will assure removal of dirt, dust, & oxidation, and can increase surface area to improve adhesion. (Image 3 & 4)

Surface must be dry prior to installation; wipe surface clean with absorbent cotton towel or other lint free absorbent towel. (Image 5)

Dry place dome bubble (*prior to removing* red protective plastic tape film from VHB tape) to see how to center optical dome bubble in place over enclosure round dome opening, to familiarize yourself on centering dome onto seal seat. Leave on clear / blue protective optical dome film to protect optical elements while you install it to housing. (Image 5 & 6)

Dotworkz housings *do not* need any special adhesive *primer* for good bonding; just prepare as instructed above.

Then remove VHB Tape's protective red film, and install dome bubble into seal seat by centering over dome hole, then pressing into place onto outside of housing. (Image 7)

CRITICAL FINAL STEP

Apply an equivalent of 15 psi of pressure onto dome perimeter of VHB seal to assure full bonding & sealing onto housing. Ideally installer shall apply this heavy 15 psi equivalent pressure on tape seat area for 5 to 10 seconds to assure good bond. If housing is not installed, press ones weight onto dome bubble to meet this bonding pressure need for 5 to 10 seconds.

Remove clear / blue protective optical film from dome, clean dome with a clean & soft optically safe rag if needed. Do not use any ammonia or chlorine based cleaners, or other harsh chemicals on dome.

We recommend using Dotworkz Pro-Clean, de-ionized water, clear water, or monitor safe cleaners only are recommended to clean dome, if desired to clean optical dome.

CAMERA ADJUSTMENT: Adjust camera support standoffs inside D2 housing, to allow camera to have desired depth into new dome as desired. It is recommended to keep a minimum of ¼" clearance between camera and optical dome, so as to assure not to have any PTZ contact to optical dome bubble. Be sure camera is centered along its PANNING axis.

Close and seal D2 hinged lower clamshell, & tighten perimeter closure screws firmly to complete installation.

Do a final PAN, Tilt, & Zoom check on camera to assure proper function & to be sure there is no camera PTZ interference with optical dome or wiring, before placing camera and housing into service.

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Image 1

Remove existing dome bubble screws, lens, & seal

Image 2

Image 3
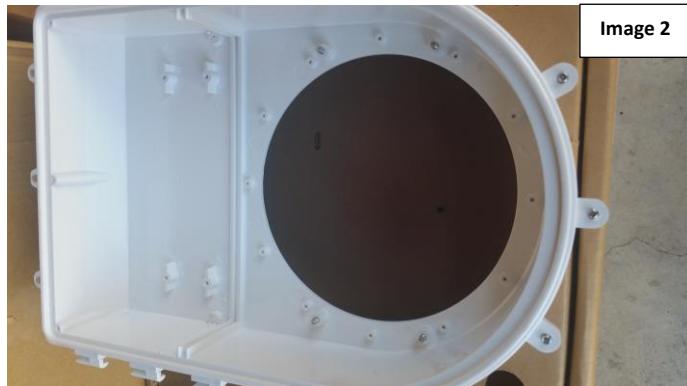
Quickly & Lightly Sand Seal Seat surface inside dome ring

Image 4

Clean & Dry Seal Seat Surface

Image 5

New External Bubble with VHB red film intact

Image 6

Dry Fit with red film intact to get ready to install dome bubble

Image 7

Externally Mounted Dome Bubble Installed onto Seal Seat

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