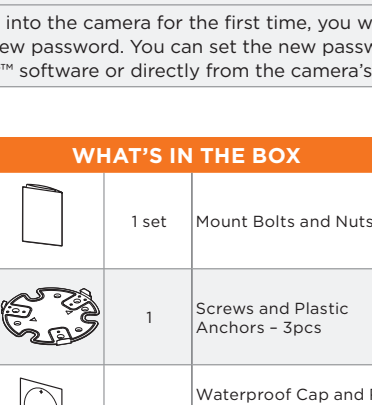


# MEGAPIX® FANO™

Panoramic View IP cameras

MEGApiX IVA+ models	9MP model	5MP model
DWC-PPVF9DI2TW DWC-PPVF5DI1TW	DWC-PVF9DI2TW	DWC-PVF5DI1TW



### Default Login Information: admin | admin

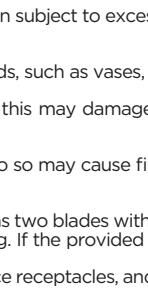
When logging into the camera for the first time, you will be prompted to set up a new password. You can set the new password using the DW® IP Finder™ software or directly from the camera's browser menu.

### WHAT'S IN THE BOX

Quick Setup and Download Guides		1 set	Mount Bolts and Nuts - 2pcs		1 set
Metal Mounting plate		1	Screws and Plastic Anchors - 3pcs		1 set
Mounting Template for Bolt and Nut Installation		1	Waterproof Cap and Rubber Rings (Black: ø0.15" (ø4mm), White: ø0.19" (ø5mm))		1 set
Mounting Template for Metal Plate Installation		1	Star Wrench (T-20)		1

**NOTE:** Download all your support materials and tools in one place

- Go to: <http://www.digital-watchdog.com/resources>
- Search your product by entering the part number in the 'Search by Product' search bar. Results for applicable part numbers will populate automatically based on the part number you enter.
- Click 'Search'. All supported materials, including manuals and quick start guide (QSGs) will appear in the results.



**Attention:** This document is intended to serve as a quick reference for the initial set-up. It is recommended that the user read the entire instruction manual for complete and proper installation and usage.

## SAFETY AND WARNING INFORMATION

Read through this Installation Guide carefully before installing the product. Keep the Installation Guide for future reference. See the user manual for more information on the proper installation, use and care of the product. These instructions are intended to ensure that users can use the product correctly to avoid danger or property loss. Warnings: Serious injury or death may occur if any of the warnings are neglected. Cautions: Injury or equipment damage may occur if any of the cautions are neglected.

- WARNING**
- In the use of the product, you must be strict compliance with the electrical safety regulations of the nation and region. When the product is mounted on a wall or ceiling, the device shall be firmly fixed.
  - Be sure to use only the standard adapter specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product.
  - If you use the power supply voltage is correct before using the camera.
  - Incorrectly connecting the power supply or replacing the battery may cause an explosion, fire, electric shock, or damage to the product.
  - Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause excessive heat generation or fire.
  - Securely plug the power cord into the power source. An insecure connection may cause a fire.
  - When installing the camera, fasten it securely and firmly. A falling camera may cause personal injury.
  - Do not install in a location subject to elevated temperature, low temperature, or high humidity. Doing so may cause fire or electric shock.
  - Do not place conductive objects (e.g. screwdrivers, coins, metal items, etc.) or containers filled with water on top of the camera. Doing so may cause personal injury due to fire, electric shock, or falling objects.
  - Do not install in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
  - Do not install near any heat sources such as radiators, heat registers, or other products (including amplifiers) that produce heat.
  - Keep out of direct sunlight and heat radiation sources. It may cause a fire.
  - If any unusual smells or smoke come from the unit, stop using the product at once. Immediately disconnect the power source and contact the service center. Continued use in such a condition may cause fire or electric shock.
  - If this product does not operate normally, contact the nearest service center. Never disassemble or change this product in any way.
  - When cleaning the product, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.

- CAUTION**
- Use proper safety gear when installing and wiring the product.
  - Do not drop objects on the product or apply strong shock to it. Keep away from a location subject to excessive vibration or magnetic interference.
  - Do not use this product near water.
  - The product shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product.
  - Avoid aiming the camera directly towards extremely bright objects such as the sun, as this may damage the image sensor.
  - The Main plug is used as a disconnect device and shall stay readily operable at all time.
  - Remove the power adapter from the outlet when there is lightning. Neglecting to do so may cause fire or damage to the product.
  - Do not block any ventilation openings. Install following the manufacturer's instructions.
  - A polarized or grounding-type plug is recommended for this product. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. If the provided plug does not fit into your outlet, consult an electrician for replacement.
  - Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
  - If any laser equipment is used near the product, make sure the surface of the sensor is not exposed to the laser beam as that may damage the sensor module.
  - If you want to move the already installed product, be sure to turn off the power and then move or reinstall it.
  - Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
  - If cleaning is necessary, please use a clean cloth to wipe it gently. If the device will not be used for a long time, please cover the lens cap to protect the device from dirt.
  - Do not touch the camera's lens or sensor module with fingers. If cleaning is necessary, please use a clean cloth to wipe it gently. If the device will not be used for a long time, please cover the lens cap to protect the device from dirt.
  - Use only attachments/accessories specified by the manufacturer.
  - Always use hardware (e.g. screws, anchors, bolts, locking nuts, etc.) compatible with the mounting surface and of sufficient length and construction to ensure a secure mount.
  - Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the product.
  - Unplug this product when a cart is used. Use caution when moving the cart/product combination to avoid injury from tip-over.
  - Refer all servicing to qualified service personnel. Servicing is needed when the product has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.

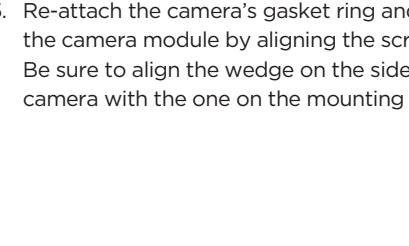
## STEP 1 – PREPARING TO MOUNT THE CAMERA

- The mounting surface must bear five times the weight of your camera.
- Do not let the cables get caught in improper places or the electric line cover to be damaged. This may cause a breakdown or fire.
- CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated 12 Vdc, 0.71A (DWC-PPVF9DI2TW and DWC-PVF9DI2TW) and 0.63A (DWC-PPVF5DI1TW and DWC-PVF5DI1TW) min.
- The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3af shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1 or PS2 as defined in UL62368-1.
- Unit is intended for installation in a Network Environment O as defined in IEC TR 62102. As such, associated Ethernet wiring shall be limited to inside the building.
- Using the mounting template sheet or the camera itself, mark and drill the necessary holes in the wall or ceiling.

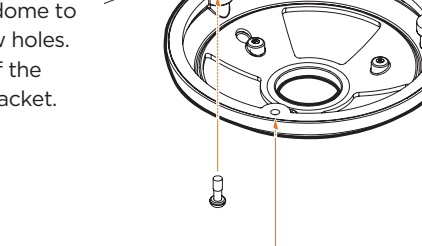
## STEP 2 – POWERING THE CAMERA

Pass the wires through and make all necessary connections.

Use a PoE Injector (required. Soldered separately) to connect data and power to the camera using a single Ethernet cable.



Use non-PoE Switch to connect data and Ethernet cable and use a power adapter to power the camera.



Model	Power Requirements	Power Consumption
DWC-PPVF9DI2TW DWC-PVF9DI2TW	DC12V, PoE IEEE 802.3af Class 3. (Adapter not included)	DC12V: max 8.5W PoE: max 10W
DWC-PPVF5DI1TW DWC-PVF5DI1TW		DC12V: max 7.5W PoE: max 8.7W

## WATERPROOF CAP INSTALLATION

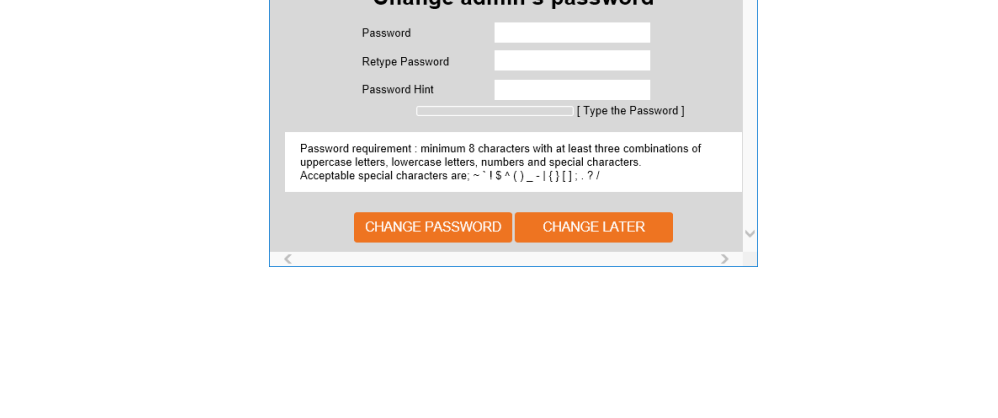
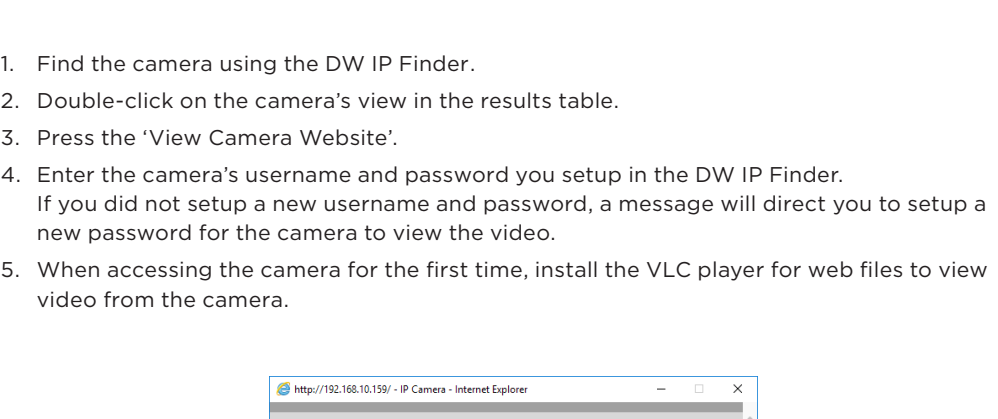
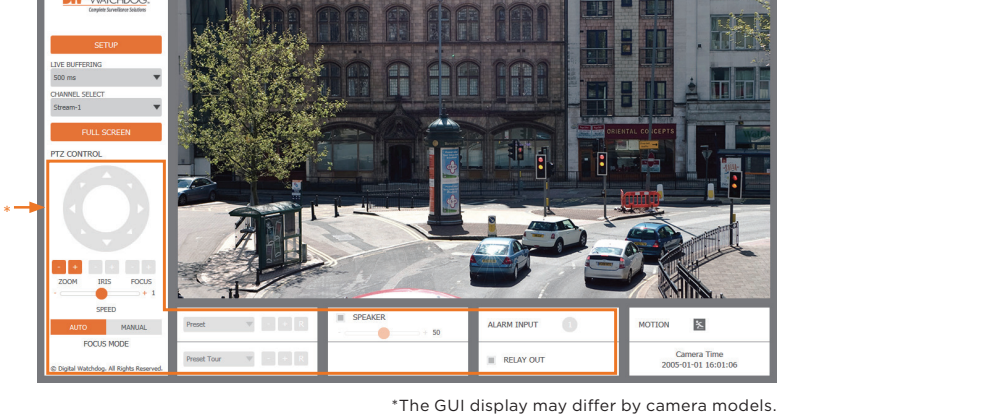
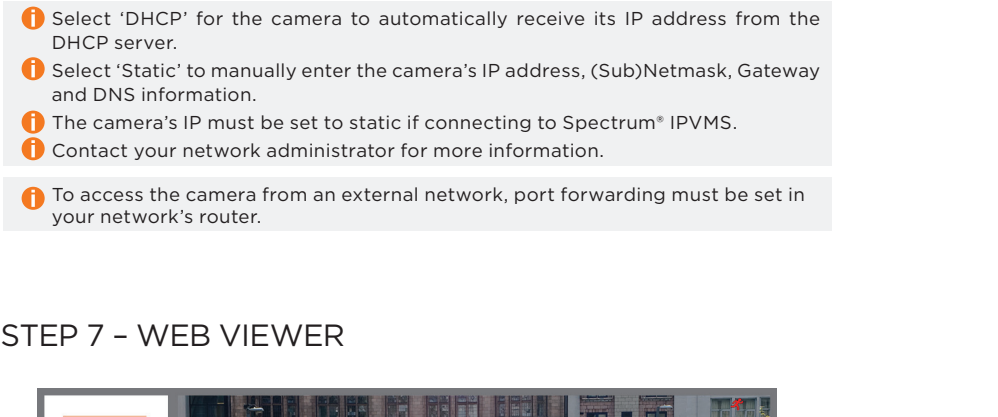
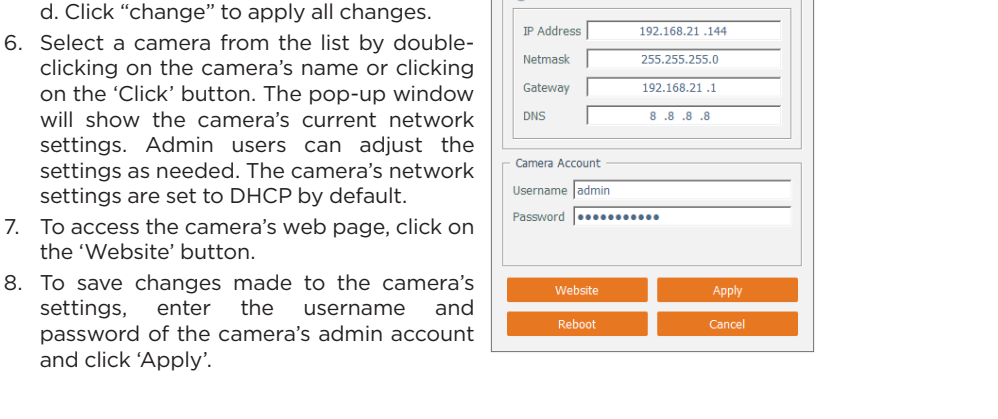
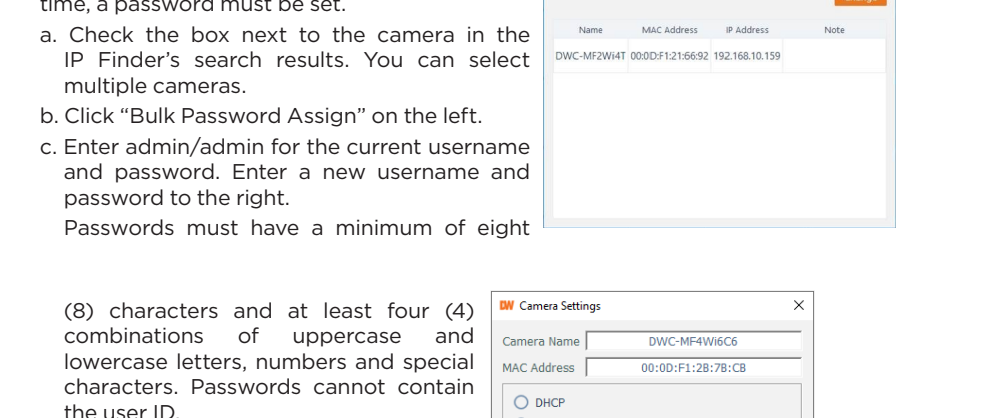
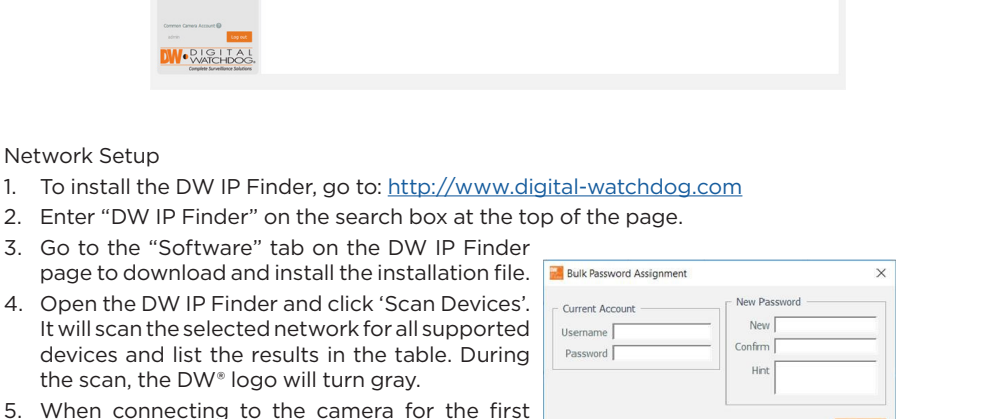
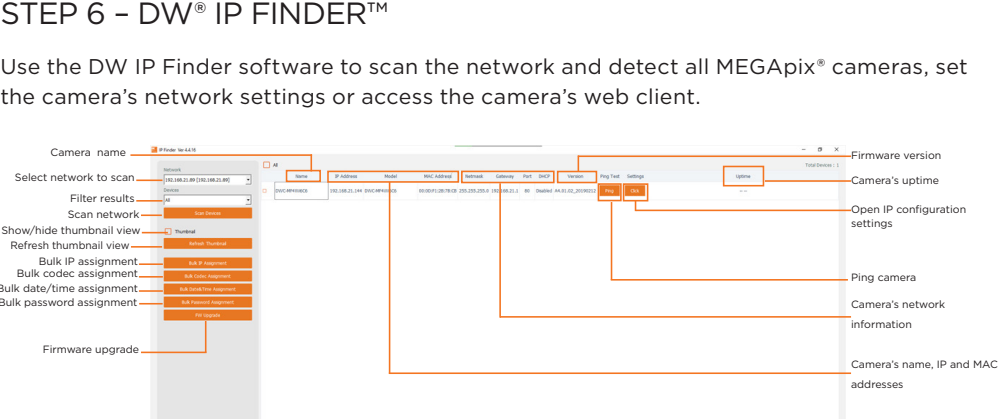
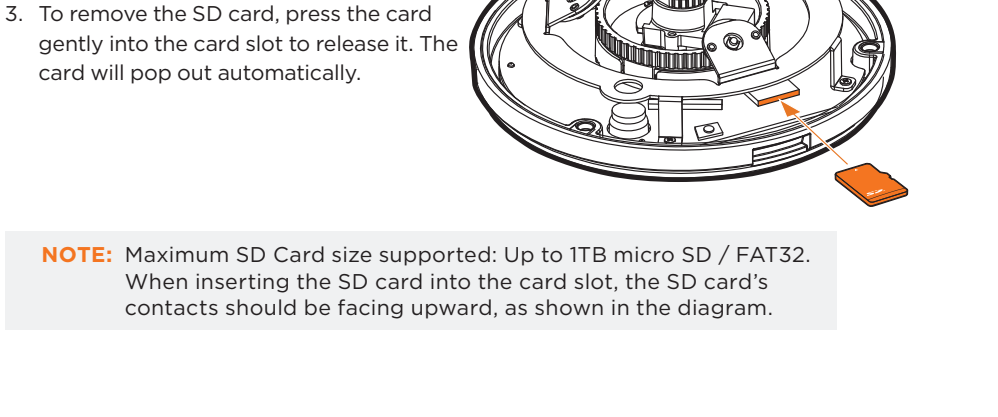
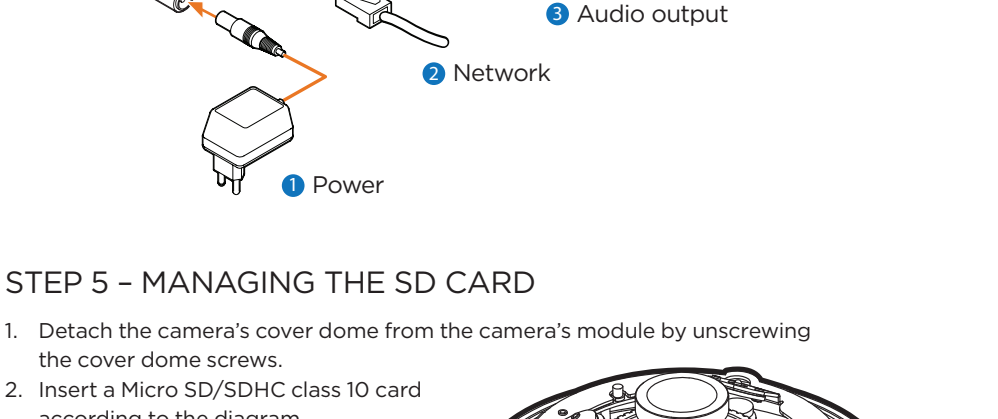
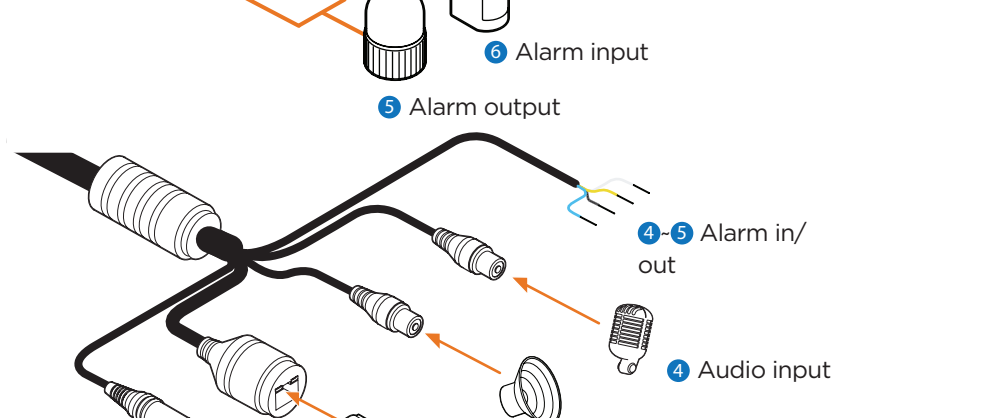
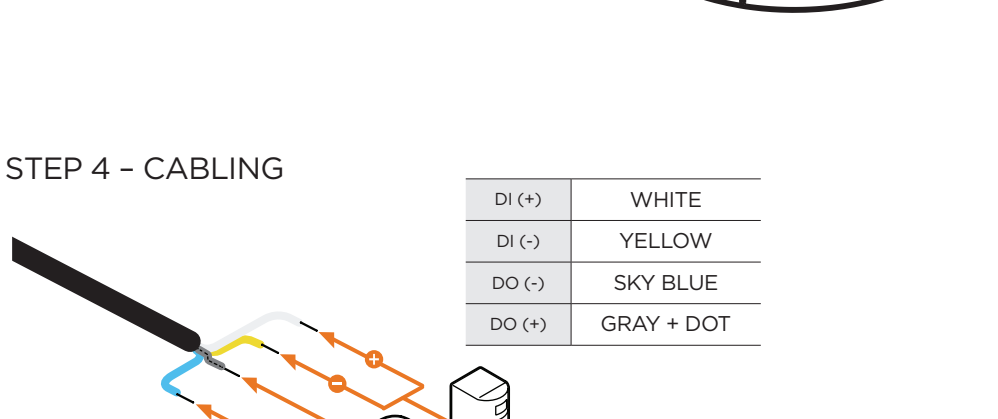
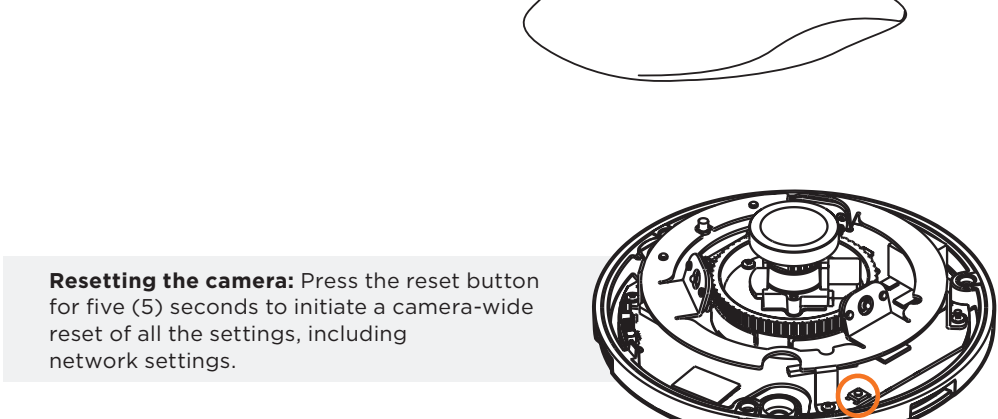
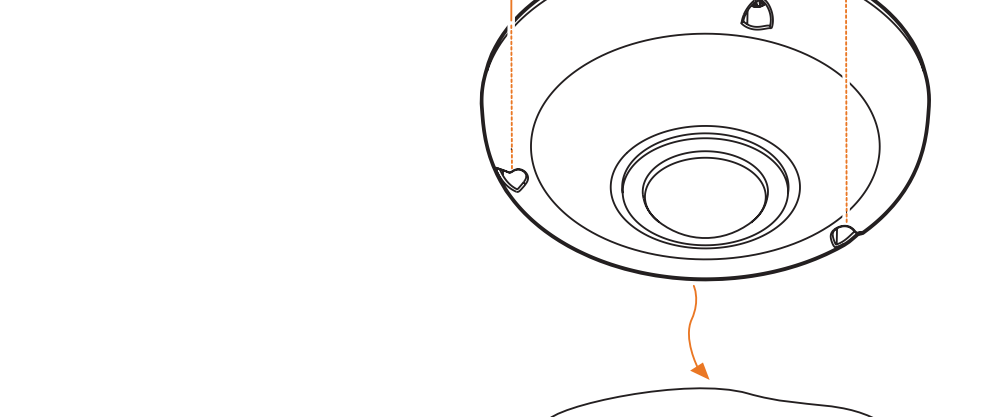
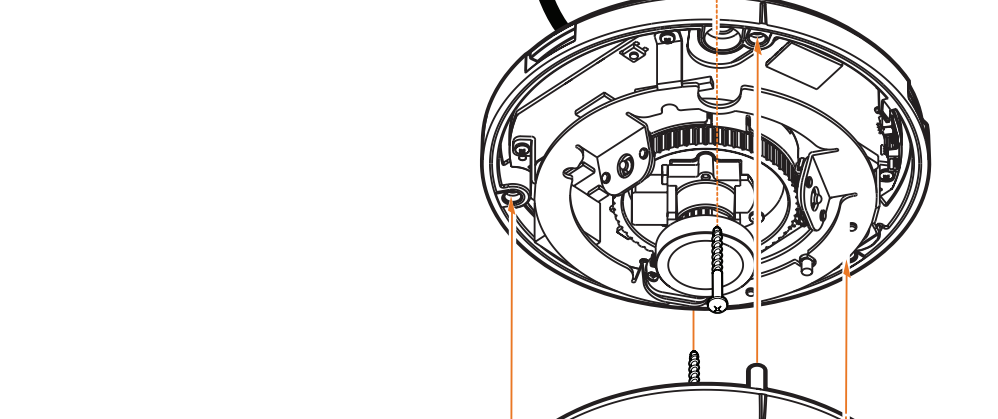
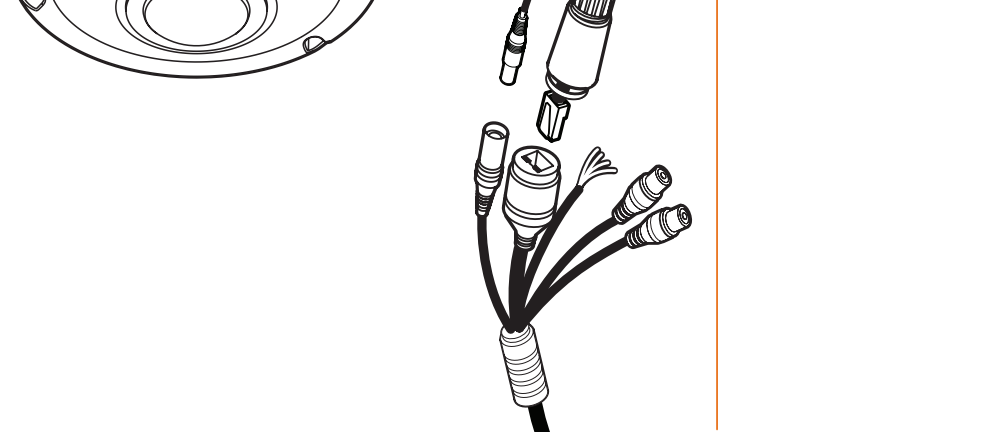
The waterproof cap set comes with two rubber rings. Use the rubber ring best sized for your network cable's diameter.

**NOTE:** Cables with ø4.5mm to ø5.5mm thickness should use the black rubber ring. Cables over ø5.5mm in thickness should use the white rubber ring.

**NOTE:** To ensure moisture seal, make sure the o-ring is in place between ① and ②. In extreme environments use of an outdoor rated sealer is recommended.

## STEP 3 – INSTALLING THE CAMERA

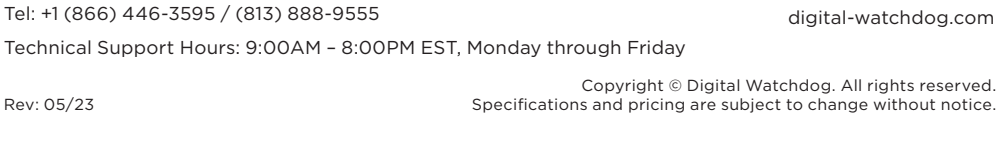
- Once all cables are connected, secure the camera to the mounting surface using the included screws.
- For soft installation surfaces, use the included metal mount plate. Fix the mounting plate on the mounting surface using the included screws. Then, press the bottom case onto the mounting plate. The three bezels on the case will align and snap lock onto the plate.
- Re-attach the camera's gasket ring and dome to the camera module by aligning the screw holes. Align the wedge on the side of the camera with the one on the mounting bracket.



**Resetting the camera:** Press the camera button for five (5) seconds to initiate a reset-wide reset of all the settings, including network settings.

## STEP 4 – CABLING

DI (+)	WHITE
DI (-)	YELLOW
DO (-)	SKY BLUE
DO (+)	GRAY + DOT



## STEP 5 – MANAGING THE SD CARD

- Detach the camera's cover dome from the camera's module by unscrewing the cover dome screws.
- Insert a Micro SD/SDHC class 10 card according to the diagram.
- To remove the SD card, press the card gently into the card slot to release it. The card will pop out automatically.



**NOTE:** Maximum SD Card size supported: Up to 1TB micro SD / FAT32. When inserting the SD card into the card slot, the micro SD card's contacts should be facing upward, as shown in the diagram.

## STEP 6 – DW® IP FINDER™

Use the DW IP Finder software to scan the network and detect all MEGAPIX® cameras, set the camera's network settings or access the camera's web client.



## Network Setup

- To install the DW IP Finder, go to: <http://www.digital-watchdog.com>
- Enter "DW IP Finder" in the search box at the top of the page.
- Go to the "Software" tab on the DW IP Finder page to download and install the installation file.
- Open the DW IP Finder and click "Scan Devices". It will scan the selected network for all supported devices and list the results in a table. During the scan, the "DW" logo will turn gray.
- When connecting to the camera for the first time, a password must be set.
  - Check the box next to the camera in the IP Finder's search results. You can select multiple cameras.
  - Click "Bulk Password Assign" on the left.
  - Enter admin/admin for the current username and password. Enter a new username and password to the right. Passwords must have a minimum of eight



- (8) characters and at least four (4) combinations of uppercase and lowercase letters, numbers and special characters. Passwords cannot contain the user ID.
- Click "change" to apply all changes.
- Select a camera from the list by double-clicking on the camera's name or clicking on the "Click" button. The pop-up window will show the camera's current network settings. Admin users can adjust the settings as needed. The camera's network settings are set to DHCP by default.
- To access the camera's web page, click on the "Website" button.
- To save changes made to the camera's settings, enter the username and password of the camera's admin account and click 'Apply'.



- Select "DHCP" for the camera to automatically receive its IP address from the DHCP server.
- Select "Static" to manually enter the camera's IP address, (Sub)Netmask, Gateway and DNS information.
- The camera's IP must be set to static if connecting to Spectrum® IPVMS.
- Contact your network administrator for more to Spectrum.
- To access the camera from an external network, port forwarding must be set in your network's router.

## STEP 7 – WEB VIEWER



- Find the camera using the DW IP Finder.
- Double-click on the camera's view in the results table.
- Press the 'View Camera Website'.
- Enter the camera's username and password you setup in the DW IP Finder. If you did not setup a new username and password, a message will direct you to setup a new password for the camera to view the video.
- When accessing the camera for the first time, install the VLC player for web files to view video from the camera.



**NOTE:** Please see the full product manual for web viewer setup, functions and camera settings options.

**NOTE:** This product is covered by one or more claims of the HEVC Patents listed at [patentlist.accessadvance.com](http://patentlist.accessadvance.com).

