



DIGITAL WATCHDOG DWC-PVX20WATW Multi Sensor IP Cameras User Guide

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DIGITAL WATCHDOG DWC-PVX20WATW Multi Sensor IP Cameras



Product Information

- Default login information: admin | admin
- Includes Star Wrench (T-20), RJ45 Installation Tool, Test Monitor Cable, Quick Setup and Download Guides, Moisture Absorber and Installation Guide (Recommended), SI PAK DESI P, 1 set Grommet, PoE Injector, Spare dome screws, and 1 Set of 7 Accessories
- Required Mounting Accessories (Sold Separately):
 - Wall mount bracket: DWC-PV20WMW
 - Ceiling mount bracket: DWC-PV20CMW
 - Flush mount: DWC-PV20FMW
 - Parapet bracket and tilting adapter (each sold separately): DWC- PZPARAM, DWC-PV20ADPW
 - Junction box: DWC-PV20JUNCW
- Safety and Warning Information:
 - Ensure firm fixation when mounting on a wall or ceiling
 - Use only the specified standard adapter to prevent fire, electrical shock, or product damage
 - Verify the correct power supply voltage before usage
 - Do not connect multiple cameras to a single adapter to avoid heat generation or fire
 - Securely plug the power cord into the power source to prevent fire
 - Firmly fasten the camera during installation to prevent personal injury
 - Avoid installing in locations with elevated temperature, low temperature, or high humidity to prevent fire or electric shock
 - Avoid placing conductive objects or containers filled with water on top of the camera to prevent personal

injury

- Avoid installing in humid, dusty, or sooty locations to prevent fire or electric shock
- Avoid installing near heat sources or direct sunlight to prevent fire
- If any unusual smells or smoke come from the unit, immediately stop using the product and contact the service center to prevent fire or electric shock
- If the product does not operate normally, contact the nearest service center and do not disassemble or change the product

Product Usage Instructions

1. When logging into the camera for the first time, use the default login information: admin | admin. You will be prompted to set up a new password.
2. Ensure all required mounting accessories are purchased separately according to your installation needs. The accessories include a wall mount bracket, ceiling mount bracket, flush mount, parapet bracket and tilting adapter, and junction box.
3. To download support materials and tools for your product, follow these steps:
 1. Go to <http://www.digital-watchdog.com/resources>.
 2. In the 'Search by Product' search bar, enter the part number of your product.
 3. Click 'Search'. The results will display all supported materials, including manuals and quick start guides (QSGs).
4. For complete and proper installation and usage, it is recommended to read the entire instruction manual.

WHAT'S IN THE BOX

Star Wrench (T-20)		1	RJ45 Installation Tool		1
Test Monitor Cable		1	Moisture Absorber and Installation Guide (Recommended)		1
Quick Setup and Download Guides		1 set	Grommet		1
PoE Injector		1	Spare dome screws		Set of 7

ACCESSORIES REQUIRED TO INSTALL THE CAMERA (SOLD SEPARATELY)

Wall mount bracket: DWC-PV20WMW	Ceiling mount bracket: DWC-PV20CMW	Flush mount: DWC-PV20FMW	Junction box: DWC-PV20JUNCW
Parapet bracket and tilting adapter (each sold separately): DWC- PZPARAM, DWC-PV20ADPW			

NOTE: Mounting accessories are required and sold separately.

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

1. Go to: <http://www.digital-watchdog.com/resources>
2. 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.
3. Click 'Search'. All supported materials, including manuals and quick start guides (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

1. In the use of the product, you must be in 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.
2. 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.
3. Make sure the power supply voltage is correct before using the camera.
4. Incorrectly connecting the power supply or replacing the battery may cause an explosion, fire, electric shock, or damage to the product.
5. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause excessive heat generation or fire.
6. Securely plug the power cord into the power source. An insecure connection may cause a fire.
7. When installing the camera, fasten it securely and firmly. A falling camera may cause personal injury.
8. Do not install in a location subject to elevated temperature, low temperature, or high humidity. Doing so may cause fire or electric shock.
9. 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.
10. Do not install in humid, dusty, or sooty locations. Doing so may cause fire or electric shock.
11. Do not install near any heat sources such as radiators, heat registers, or other products (including amplifiers) that produce heat.

12. Keep out of direct sunlight and heat radiation sources. It may cause a fire.
13. 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.
14. If this product does not operate normally, contact the nearest service center. Never disassemble or change this product in any way.
15. When cleaning the product, do not spray water directly onto parts of the product. Doing so may cause fire or electric shock.

CAUTION

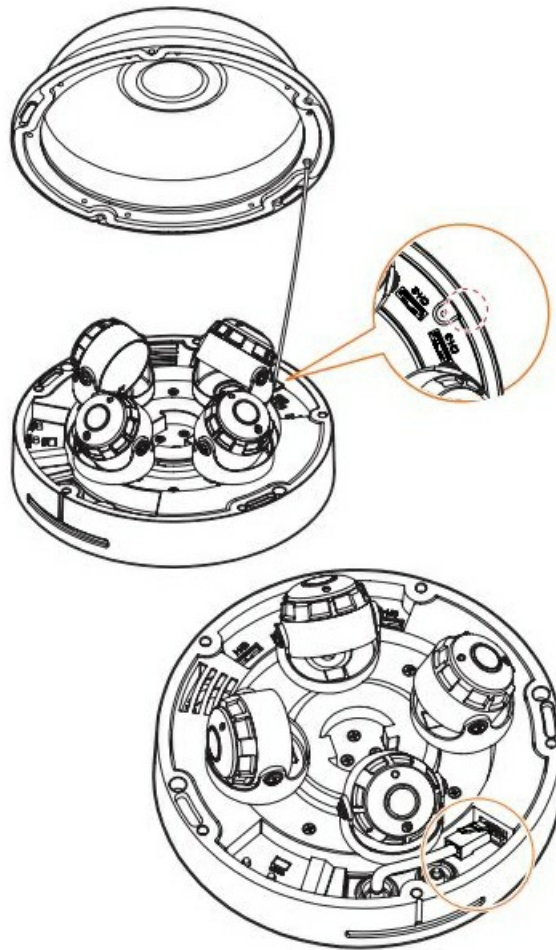
1. Use proper safety gear when installing and wiring the product.
2. Do not drop objects on the product or apply strong shock to it. Keep away from a location subject to excessive vibration or magnetic interference.
3. Do not use this product near water.
4. The product shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product.
5. Avoid aiming the camera directly toward extremely bright objects such as the sun, as this may damage the image sensor.
6. The Main plug is used as a disconnect device and shall stay readily operable at any time.
7. Remove the power adapter from the outlet when there is lightning. Neglecting to do so may cause fire or damage to the product.
8. Do not block any ventilation openings. Install following the manufacturer's instructions.
9. A polarized or grounding-type plug is recommended for this product. A polarized plug has two blades 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.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
11. 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.
12. If you want to move the already installed product, be sure to turn off the power and then move or reinstall it.
13. Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
14. 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.
15. Do not touch the camera's lens or sensor module with your 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.
16. Use only attachments/accessories specified by the manufacturer.
17. 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.
18. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the product.
19. Unplug this product when a cart is used. Use caution when moving the cart/product combination to avoid injury

from tip-over.

20. Refer all servicing to qualified service personnel. Servicing is needed when the product has been damaged in any way, such as a 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

1. The mounting surface must bear five times the weight of your camera.
2. Avoid allowing cables to become pinched or abraded during installation. If the plastic wire jacket of the electrical line is damaged, it could result in an electrical short or fire.
3. 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.
4. Ensure that this product is supplied power by a UL Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated 12 Vdc, 2.3A or PoE (802.3bt) 0.64A min.
5. The wired LAN hub providing power over the Ethernet (PoE) by IEEE 802.3bt 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.
6. Unit is intended for installation in a Network Environment 0 as defined in IEC TR 62102. As such, associated Ethernet wiring shall be limited to inside the building.
7. For the installation process, remove the dome cover from the camera. Connect the camera's dome to the camera base using the safety wire. Hook the safety wire to the screw at the base of the camera. Keep the inner and outer protective films on the dome during the installation to make sure no dust or smudges are left on the dome.
8. Install the moisture absorber under the camera's network cable connector.
 - Remove the moisture absorber from the packaging.
 - Place the moisture absorber on the base of the camera, according to the diagram below.
9. Using the mounting template sheet for the mounting accessory, or the mounting accessory itself, mark and drill the necessary holes in the wall or ceiling. See the accessory's QSG for more information.



- **NOTE:** The camera will generate enough heat to dry moisture during operation. In most cases, it will not need the moisture absorber for more than the first day. In cases where the camera can experience a moisture issue, users must keep the moisture absorber in the camera. The moisture absorber has an approximately 6-month life cycle, varying depending on the environment.
- **WARNING:** It is highly recommended that you install the moisture absorber when mounting the camera. The moisture absorber prevents moisture from being captured inside the camera's housing, which may cause image performance issues and damage the camera.
- **NOTE:** A wall mount, ceiling mount, junction box, or in-ceiling flush mount are sold separately and are required to complete the camera's installation.

10. Secure the camera base to the mounting accessory using the second safety wire.

STEP 2 POWERING THE CAMERA

Pass the wires through the mounting accessory and make all the necessary connections at the base of the camera. See STEP 4.

1. When using a PoE switch or PoE Injector (included), connect the camera using an Ethernet cable for both data and power.
2. When not using a PoE switch or PoE Injector, connect the camera to the switch using an Ethernet cable for data transmission and use a power adapter to power the camera.

Power requirements

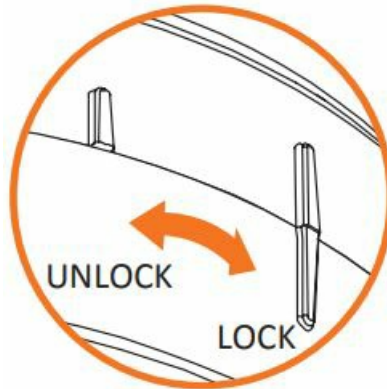
- DC12V, PoE IEEE 802.3bt PoE+ class 5 (High power PoE injector included)

Power consumption

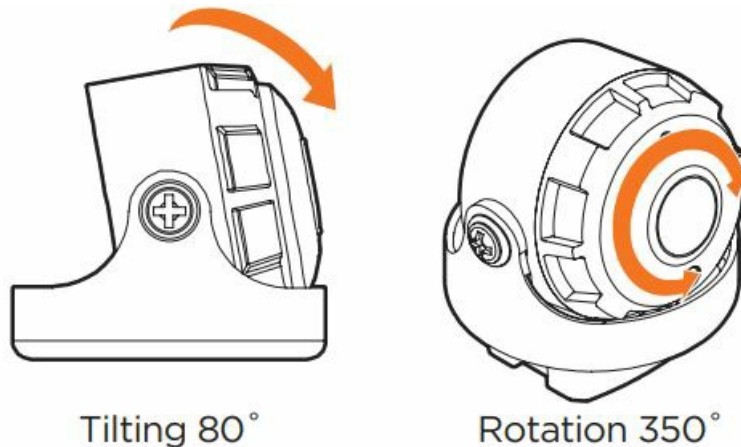
- **DC12V:** max 28W
- **PoE:** max 31W

STEP 3 MOUNTING THE CAMERA

1. Once all cables are connected, secure the camera base to the mounting accessory. Align the indented lines on the side of the camera with the lines on the mounting bracket as seen in the image on the right. Rotate the camera counter-clockwise to lock it into position.

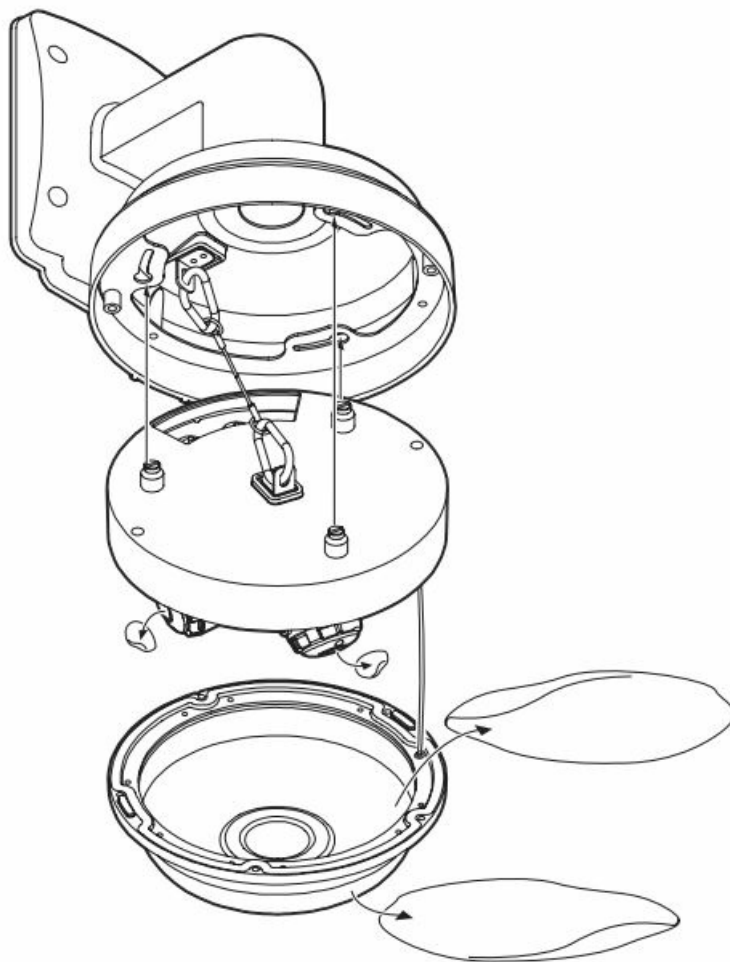


2. Adjust the position of the camera modules on the magnetic surface as needed. The camera modules can be moved between 1~5 positions for the ultimate coverage and view. Each camera is labeled with number 1~4 for the module's order. The modules snap into position using the magnetic track, allowing for maximum customization and fully adjustable views.
3. Adjust the camera modules' angle and direction. Each camera can be rotated 350° and tilted a maximum of 80°.

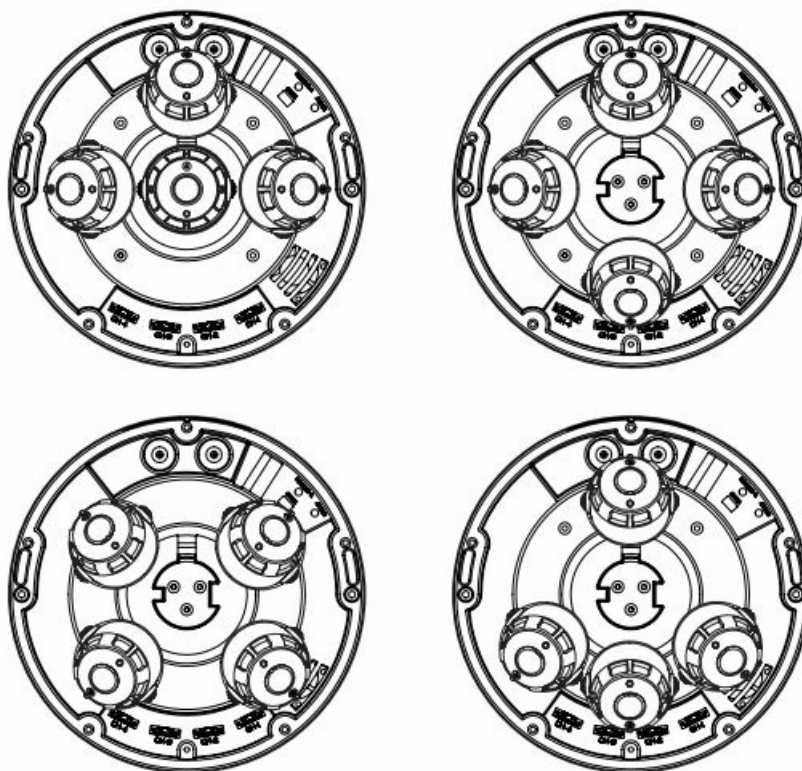


4. Remove the protective film attached to each of the lens modules once they are in place.
5. Remove the dome cover protective films from both the inside and outside of the dome cover. Secure the dome cover to the camera's base using the included star wrench and dome screws to complete the installation.

NOTE: Only lens modules #3 and #4 can be seated in the center (5th) position. Trying to place lens modules #1 or #2 in the center may result in a risk of pulling out or damaging the wire connection for the lens module.



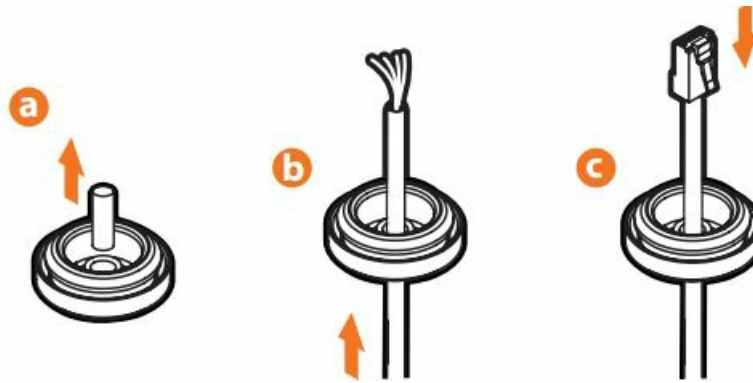
Lens module configuration options



STEP 4 CABLING

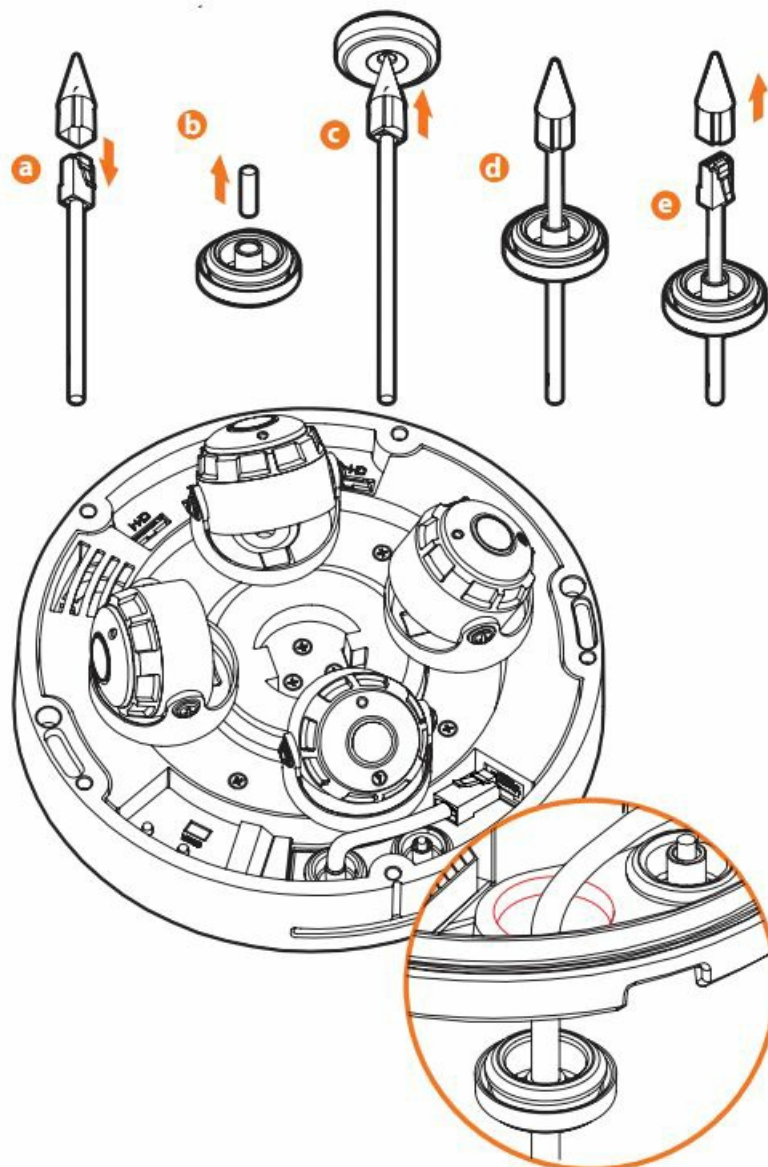
1. Network cable – To connect an RJ45 cable to the camera: Option A (recommended):

- Remove the grommet plug.
- Pass the network cable through the grommet at the base of the camera.
- Once the cable is through, add the RJ45 connector and connect to the network port.



Option B:

- Attach the included RJ45 installation tool to the network cable.
- Remove the grommet plug.
- Pass the network cable through the grommet. Pay attention to the direction of the grommet connection.
- Once the cable's connector is through, remove the installation tool. Once the network cable is passed through the grommet:
- Insert the grommet into the bottom of the camera base.



- **NOTE:** Bending the cable may cause water leakage.
- Connect the RJ45 to the camera's network input at the base of the camera.
 - The camera's power, sensor, and audio ports are on a terminal block, next to the "V-Change" toggle and reset button.

+	-	+	-	+	-	IN	COM	OUT
DC12V		DI		DO		AUDIO		

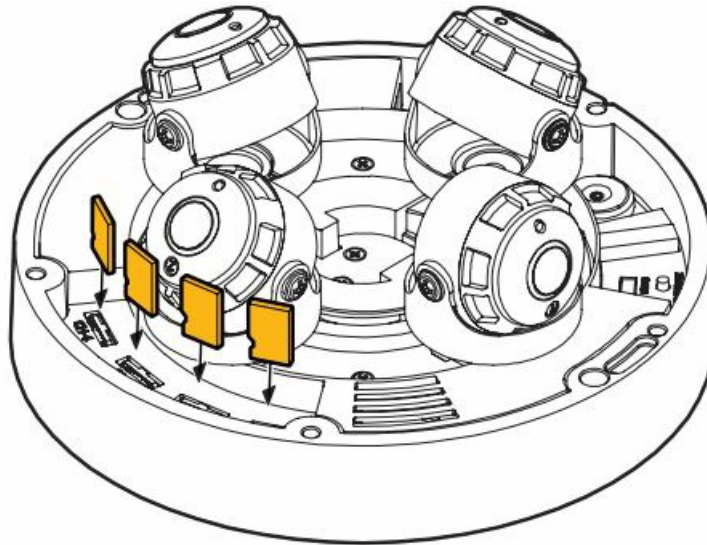
2. Power – If you are using a non-PoE switch, connect the camera to an adequate power adapter to power the camera.
3. Sensor/alarm input and output – connect an external sensor input and alarm output to the camera's terminal block.
4. Audio input – use the camera's audio-in port to connect a microphone or "line out" port of an amplifier.

NOTE: Use the cable with a diameter of $\varnothing 0.19'' \sim \varnothing 0.31''$ ($\varnothing 5.0 \sim \varnothing 8.0\text{mm}$).



STEP 5 MANAGING THE SD CARD

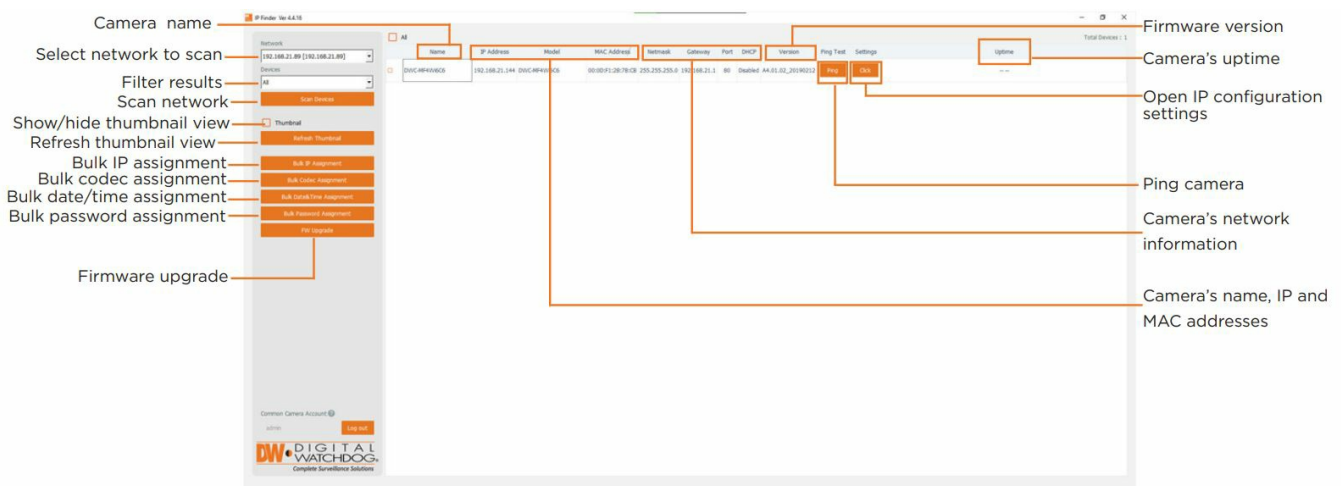
1. Locate the SD card slots at the base of the camera. The camera supports up to four (4) SD cards.
2. Insert a card into an SD card slot by pressing the SD card into the slot until it clicks into position.
3. Press the card inward to release it from the card slot.



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

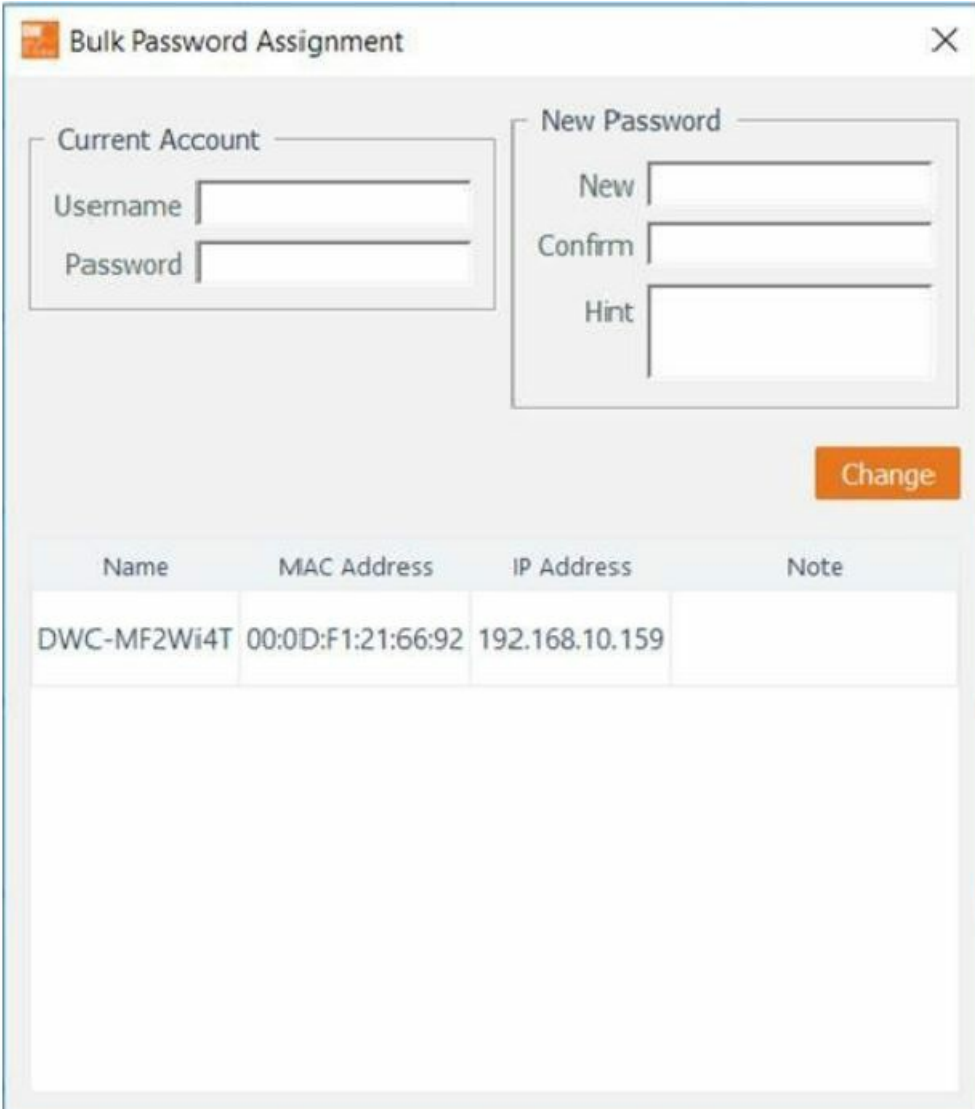
STEP 6 – DW® IP FINDER™

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

1. To install the DW IP Finder, go to: <http://www.digital-watchdog.com>
2. Enter “DW IP Finder” on the search box at the top of the page.
3. Go to the “Software” tab on the DW IP Finder page to download and install the installation file.
4. Open the DW IP Finder and click ‘Scan Devices’. It will scan the selected network for all supported devices and list the results in the table. During the scan, the DW® logo will turn gray.
5. 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.



The image shows a 'Bulk Password Assignment' window. It has a title bar with a close button. The window is divided into two main sections. The left section is titled 'Current Account' and contains two input fields: 'Username' and 'Password'. The right section is titled 'New Password' and contains three input fields: 'New', 'Confirm', and 'Hint'. Below these sections is an orange 'Change' button. At the bottom of the window is a table with four columns: 'Name', 'MAC Address', 'IP Address', and 'Note'. The table contains one row with the following data: 'DWC-MF2Wi4T', '00:0D:F1:21:66:92', '192.168.10.159', and an empty 'Note' cell.

Name	MAC Address	IP Address	Note
DWC-MF2Wi4T	00:0D:F1:21:66:92	192.168.10.159	

6. 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.
7. To access the camera’s web page, click on the ‘Website’ button.
8. To save changes made to the camera’s settings, enter the username and password of the camera’s admin account and click ‘Apply’.

DW Camera Settings

Camera Name: DWC-MF4Wi6C6

MAC Address: 00:0D:F1:2B:7B:CB

☐ DHCP

☒ Static IP

IP Address: 192.168.21.144

Netmask: 255.255.255.0

Gateway: 192.168.21.1

DNS: 8.8.8.8

Camera Account

Username: admin

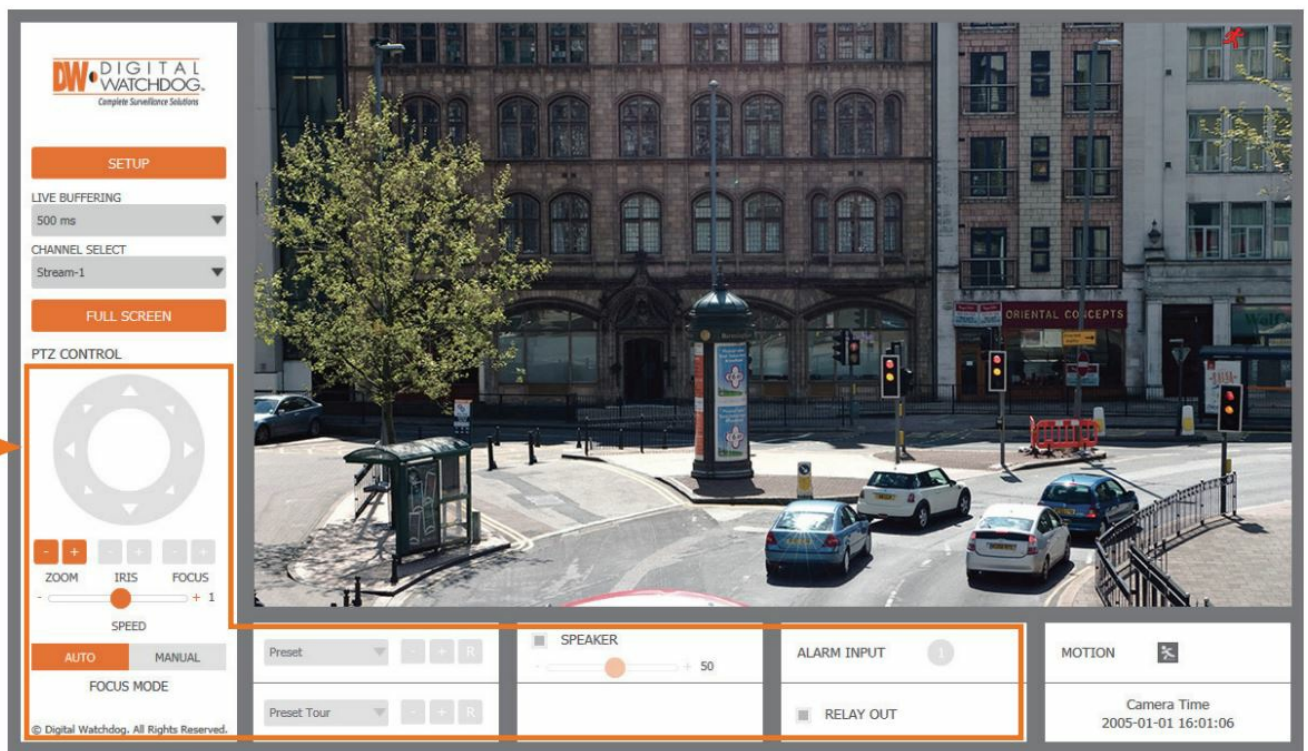
Password: ●●●●●●●●

Website Apply

Reboot Cancel

- 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 information.
- To access the camera from an external network, port forwarding must be set in your network's router.

STEP 7 – WEB VIEWER



*The GUI display may differ by camera models.

1. Find the camera using the DW IP Finder.
2. Double-click on the camera's view in the results table.
3. Press the 'View Camera Website'.
4. Enter the camera's username and password you set up in the DW IP Finder.
 - If you did not set up a new username and password, a message will direct you to set up a new password for the camera to view the video.
5. 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.

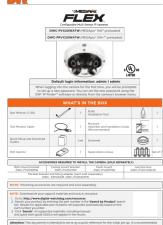
Tel: +1 (866) 446-3595 / (813) 888-9555

Technical Support Hours: 9:00 AM – 8:00 PM EST, Monday through Friday

Rev: 05/23

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digital-watchdog.com



SAFETY AND WARNING INFORMATION

Read this manual carefully before using the product. It contains important information about the correct use of the product and the safety precautions that must be followed. Failure to follow these instructions may result in injury or damage to property.

The product is not to be used in the following situations:

- In the presence of flammable or explosive gases, vapors or liquids.
- In the presence of high voltage or high frequency electromagnetic fields.
- In the presence of strong magnetic fields.
- In the presence of strong static electric fields.
- In the presence of strong radio frequency interference.
- In the presence of strong mechanical vibrations.
- In the presence of strong acoustic noise.
- In the presence of strong temperature fluctuations.
- In the presence of strong humidity.
- In the presence of strong dust or dirt.
- In the presence of strong salt or other corrosive substances.
- In the presence of strong UV radiation.
- In the presence of strong infrared radiation.
- In the presence of strong X-ray radiation.
- In the presence of strong gamma radiation.
- In the presence of strong neutron radiation.
- In the presence of strong cosmic radiation.
- In the presence of strong gravitational fields.
- In the presence of strong magnetic fields.
- In the presence of strong static electric fields.
- In the presence of strong radio frequency interference.
- In the presence of strong mechanical vibrations.
- In the presence of strong acoustic noise.
- In the presence of strong temperature fluctuations.
- In the presence of strong humidity.
- In the presence of strong dust or dirt.
- In the presence of strong salt or other corrosive substances.
- In the presence of strong UV radiation.
- In the presence of strong infrared radiation.
- In the presence of strong X-ray radiation.
- In the presence of strong gamma radiation.
- In the presence of strong neutron radiation.
- In the presence of strong cosmic radiation.

STEP 1 - PREPARING TO MOUNT THE CAMERA

1. Remove the camera from its packaging and inspect it for damage.

2. Check the camera's serial number and the serial number of the mounting bracket.

3. Check the camera's IP address and the IP address of the mounting bracket.

4. Check the camera's power supply and the power supply of the mounting bracket.

5. Check the camera's network cable and the network cable of the mounting bracket.

6. Check the camera's video cable and the video cable of the mounting bracket.

7. Check the camera's audio cable and the audio cable of the mounting bracket.

8. Check the camera's microphone and the microphone of the mounting bracket.

9. Check the camera's speaker and the speaker of the mounting bracket.

10. Check the camera's camera lens and the camera lens of the mounting bracket.

STEP 2 - POWERING THE CAMERA

1. Connect the camera's power supply to the power supply of the mounting bracket.

2. Connect the camera's network cable to the network cable of the mounting bracket.

3. Connect the camera's video cable to the video cable of the mounting bracket.

4. Connect the camera's audio cable to the audio cable of the mounting bracket.

5. Connect the camera's microphone to the microphone of the mounting bracket.

6. Connect the camera's speaker to the speaker of the mounting bracket.

7. Connect the camera's camera lens to the camera lens of the mounting bracket.

8. Connect the camera's camera lens to the camera lens of the mounting bracket.

9. Connect the camera's camera lens to the camera lens of the mounting bracket.

10. Connect the camera's camera lens to the camera lens of the mounting bracket.

STEP 3 - MOUNTING THE CAMERA

1. Mount the camera on the mounting bracket.

2. Mount the camera on the mounting bracket.

3. Mount the camera on the mounting bracket.

4. Mount the camera on the mounting bracket.

5. Mount the camera on the mounting bracket.

6. Mount the camera on the mounting bracket.

7. Mount the camera on the mounting bracket.

8. Mount the camera on the mounting bracket.

9. Mount the camera on the mounting bracket.

10. Mount the camera on the mounting bracket.

STEP 4 - CABLES

1. Connect the camera's power supply to the power supply of the mounting bracket.

2. Connect the camera's network cable to the network cable of the mounting bracket.

3. Connect the camera's video cable to the video cable of the mounting bracket.

4. Connect the camera's audio cable to the audio cable of the mounting bracket.

5. Connect the camera's microphone to the microphone of the mounting bracket.

6. Connect the camera's speaker to the speaker of the mounting bracket.

7. Connect the camera's camera lens to the camera lens of the mounting bracket.

8. Connect the camera's camera lens to the camera lens of the mounting bracket.

9. Connect the camera's camera lens to the camera lens of the mounting bracket.

10. Connect the camera's camera lens to the camera lens of the mounting bracket.

STEP 5 - MOUNTING THE IO CARD

1. Insert the IO card into the camera's IO slot.

2. Insert the IO card into the camera's IO slot.

3. Insert the IO card into the camera's IO slot.

4. Insert the IO card into the camera's IO slot.

5. Insert the IO card into the camera's IO slot.

6. Insert the IO card into the camera's IO slot.

7. Insert the IO card into the camera's IO slot.

8. Insert the IO card into the camera's IO slot.

9. Insert the IO card into the camera's IO slot.

10. Insert the IO card into the camera's IO slot.

STEP 6 - ON-SCREEN

1. Turn on the camera's power.

2. Turn on the camera's power.

3. Turn on the camera's power.

4. Turn on the camera's power.

5. Turn on the camera's power.

6. Turn on the camera's power.

7. Turn on the camera's power.

8. Turn on the camera's power.

9. Turn on the camera's power.

10. Turn on the camera's power.

STEP 7 - WEB VIEWER

1. Open the web viewer.

2. Open the web viewer.

3. Open the web viewer.

4. Open the web viewer.

5. Open the web viewer.

6. Open the web viewer.

7. Open the web viewer.

8. Open the web viewer.

9. Open the web viewer.


10. Open the web viewer.

DIGITAL WATCHDOG DWC-PVX20WATW Multi Sensor IP Cameras [pdf] User Guide

DWC-PVX20WATW Multi Sensor IP Cameras, DWC-PVX20WATW, Multi Sensor IP Cameras, S

ensor IP Cameras, IP Cameras, Cameras

References

- **DW** [Digital Watchdog I Welcome](#)
-  [Patent Lists - Access Advance](#)
- **DW** [Digital Watchdog I Welcome](#)
- **DW** [Resources](#)

Manuals+,