



DIGITAL WATCHDOG DWC-PVX16WW MEGApix Flex 16MP Multisensor Vandal Dome IP Camera User Guide

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Configurable Multi-Sensor IP Cameras

DWC-PVX16WW – customizable model, lens modules sold separately

DWC-PVX16W2W – includes 4x 2.8mm fixed lens modules

DWC-PVX16W4W – includes 4x 4.0mm fixed lens modules

Quick Start Guide



Default Login Information

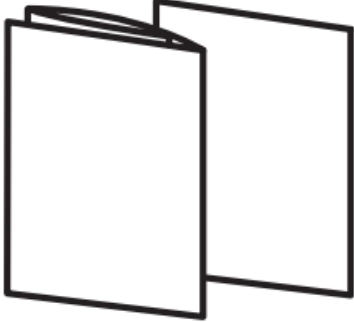
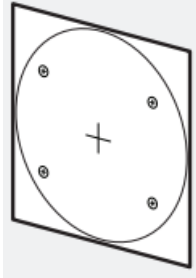
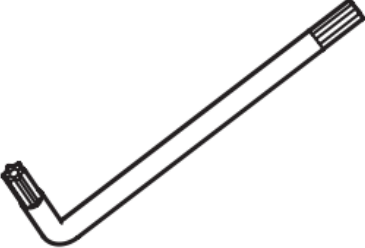
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Password: admin

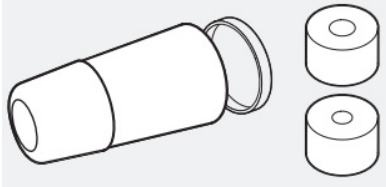


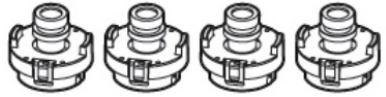
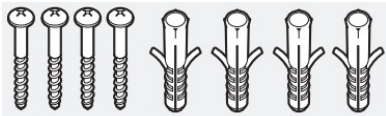


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WHAT'S IN THE BOX

Quick Start and Download Guides		1 set
Mounting Template		1
Star Wrench (T-20)		1

Waterproof Cap and Rubber Rings (Black: ø0.15" (ø4mm), White: ø0.19" (ø5mm))		1 set
Moisture Absorber and Guide (Recommended)		1 set
Test Video Cable		1
Lens Modules (DWC-PVX16W4 models only. DWC-PVX 16W, lens modules sold separately).		1 set
Screws and Plastic Anchors – 4pcs		1 set

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 guide (QSGs) will appear in the results.



http://bit.ly/resources_qr

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 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

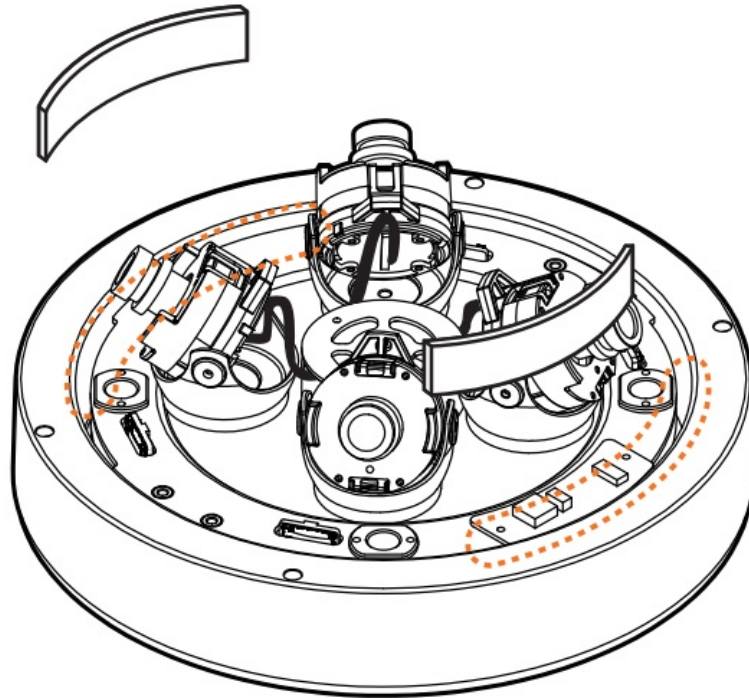
1. Use proper safety gear when installing and wiring the product.
2. Do not drop objects on the product or apply strong shock to it. Keep away from a location subject to excessive vibration or magnetic interference.
3. Do not use this product near water.
4. The product shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product.

5. Avoid aiming the camera directly towards 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 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.
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 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 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 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. **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.
2. This product is intended to be supplied by a UL Listed Power Supply Unit marked "Class 4" or "LPS" or "PS2" and rated 12 Vdc, 1380 mA min.
3. The wired LAN hub providing power over the Ethernet (PoE) in accordance with IEEE 802.3at 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.
4. The 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.

5. For the installation process, remove the dome cover from the camera by loosening the screws on the side of the dome. Remove the camera module protective foam.
6. Install the moisture absorber at the top of the camera's cover.
 - a. Remove the moisture absorber from the packaging.
 - b. Cut the card and folder along the dotted line.
 - c. Place the moisture absorber on the base of the camera, according to the diagram **below**.



NOTE: The camera will generate enough heat to dry moisture during operation. In cases where the camera can experience a moisture issue, keep the moisture absorber in the camera. The moisture absorber has an approximately 6-month life cycle.

WARNING: Install the moisture absorber when mounting the camera.

The moisture absorber prevents moisture buildup inside the camera's housing, which may cause image performance issues and damage the camera.

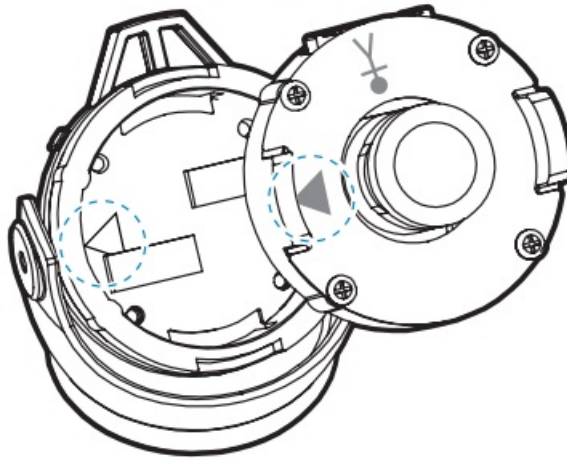
7. Assemble the sensor module blocks (with a lens) on the base guide. For the DWC-PVX16W model, the lens modules are sold separately.

NOTE: Lens modules must be installed before connecting the camera to a power source.

WARNING: The camera must be installed with four (4) lens modules. When upgrading a firmware for a camera with three (3) lens modules or less installed, the camera will fail to install the firmware correctly.

- a. Align the four (4) bolts to the four (4) guide points in the base guide.
- b. Make sure the sensor module fits into the base guide according to the image to the right.
- c. Assembling the sensor module upside down is impossible due to the interface socket locations.

Sensor module block



Base guide

8. Using the mounting template, the mounting bracket, or the camera itself, mark and drill the necessary holes in the mounting surface.

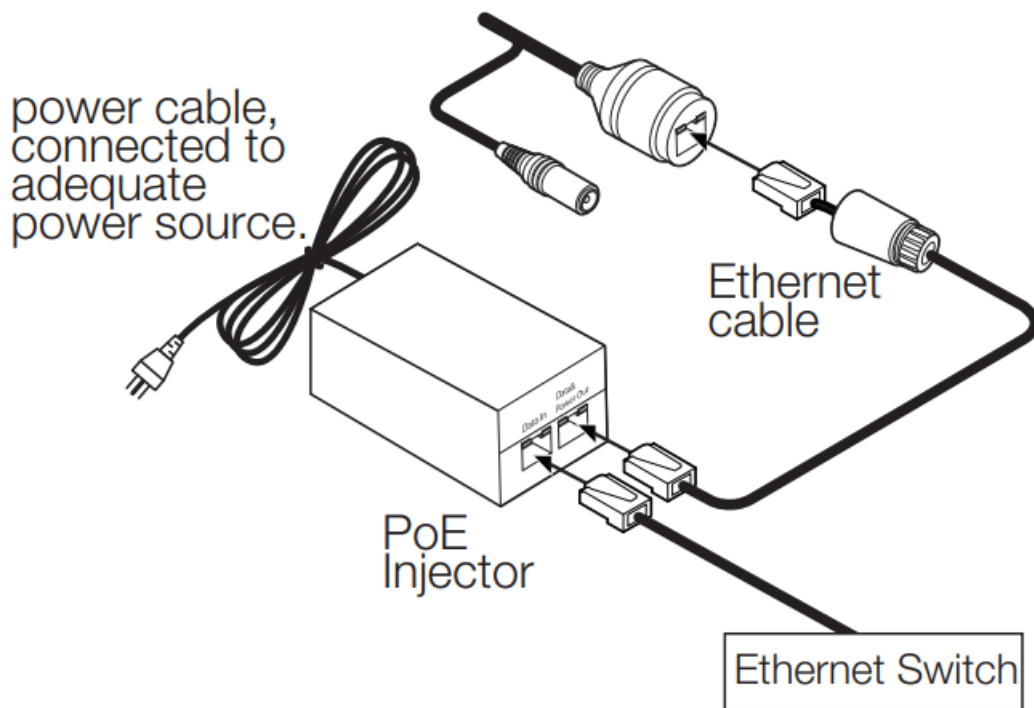
STEP 2 – POWERING THE CAMERA

Pass the wires through and make all necessary connections.

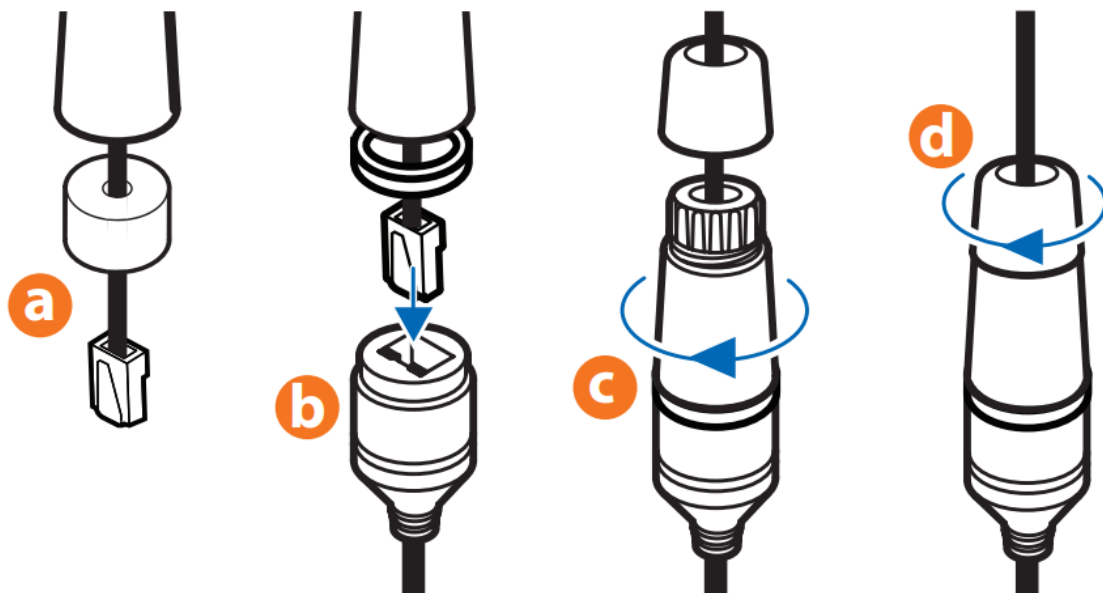
1. When using a PoE Switch or PoE Injector, connect the camera using an Ethernet cable for both data and power.
2. When using a non-PoE Switch, connect the camera to the switch using an Ethernet cable for data transmission and use a power adapter to power the camera.

Power requirements	Power consumption
DC12V, PoE+ IEEE 802.3at class 4 (High power PoE injector included)	18W

NOTE: When using the PoE+ injector, do not connect the PoE injector to a PoE/PoE+ switch or PoE/PoE+ enabled port of PoE/PoE+ switch.

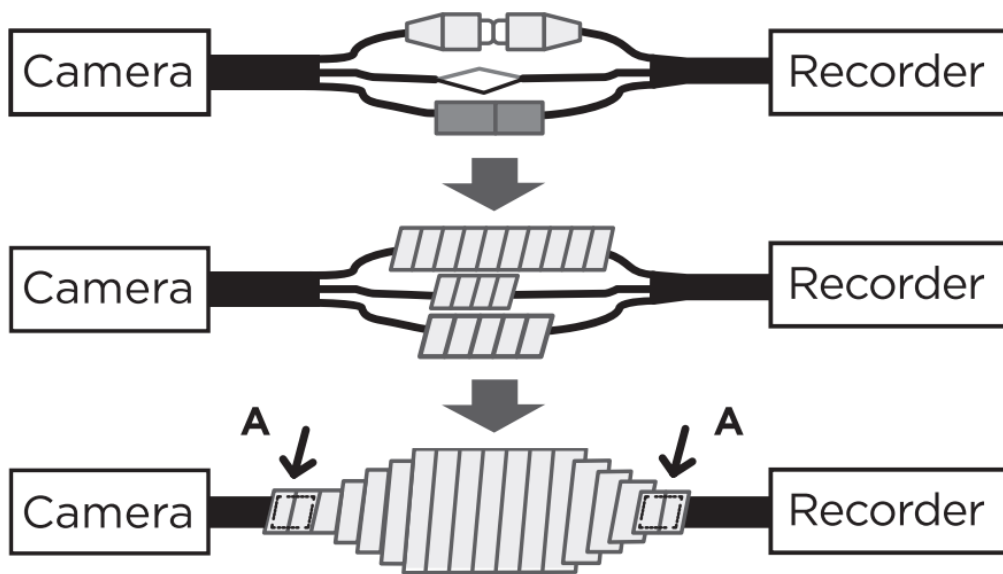


3. The waterproof cap set comes with two rubber rings. Use the rubber ring best suited for your network cable's diameter.
 - a. Pass the LAN cable through the waterproof cap, gasket and the a rubber ring.
 - b. Connect the LAN cable to the camera's network port b .
 - c. c will affix to b with a ¼ turn counter-clockwise.
 - d. Thread and twist d tightly to c .



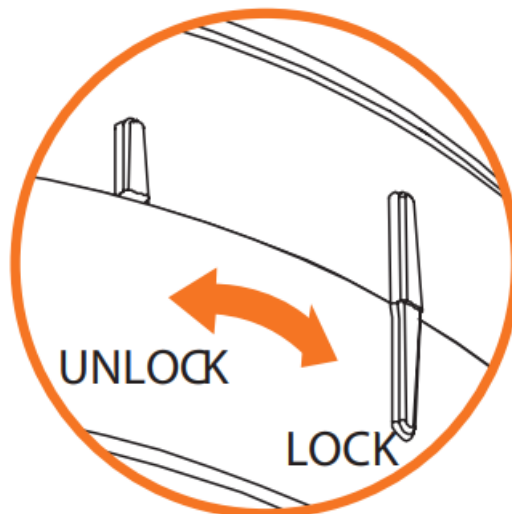
NOTE: To ensure moisture seal, make sure the o-ring is in place between a and b . In extreme environments use of an outdoor rated sealer is recommended.

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.

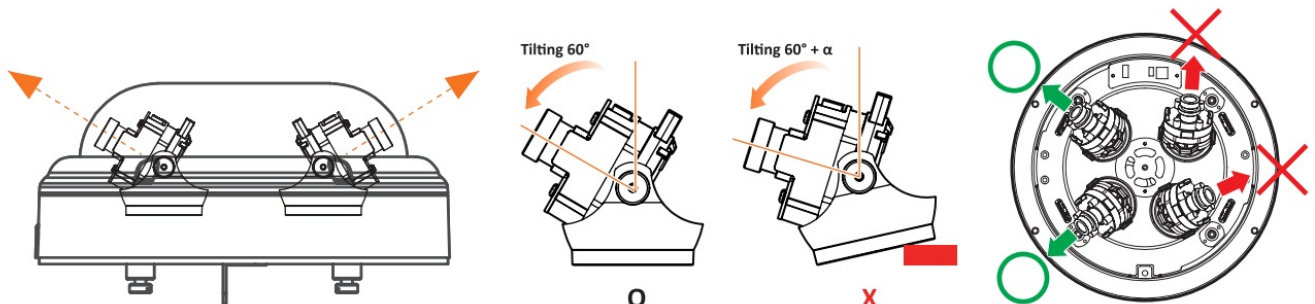


STEP 3 – MOUNTING THE CAMERA

1. Secure the camera to the mounting surface using the included screws. Align the wedge on the side of the camera with the one on the mounting bracket. Rotate the camera clockwise to lock into position.



2. Secure the camera to the mounting bracket using the safety wire at the base of the mounting bracket and the hook at the base of the camera
3. Adjust the camera modules on the magnetic surface. Each camera module snaps into position using the magnetic track. Use the diagram below to properly align the **modules**.



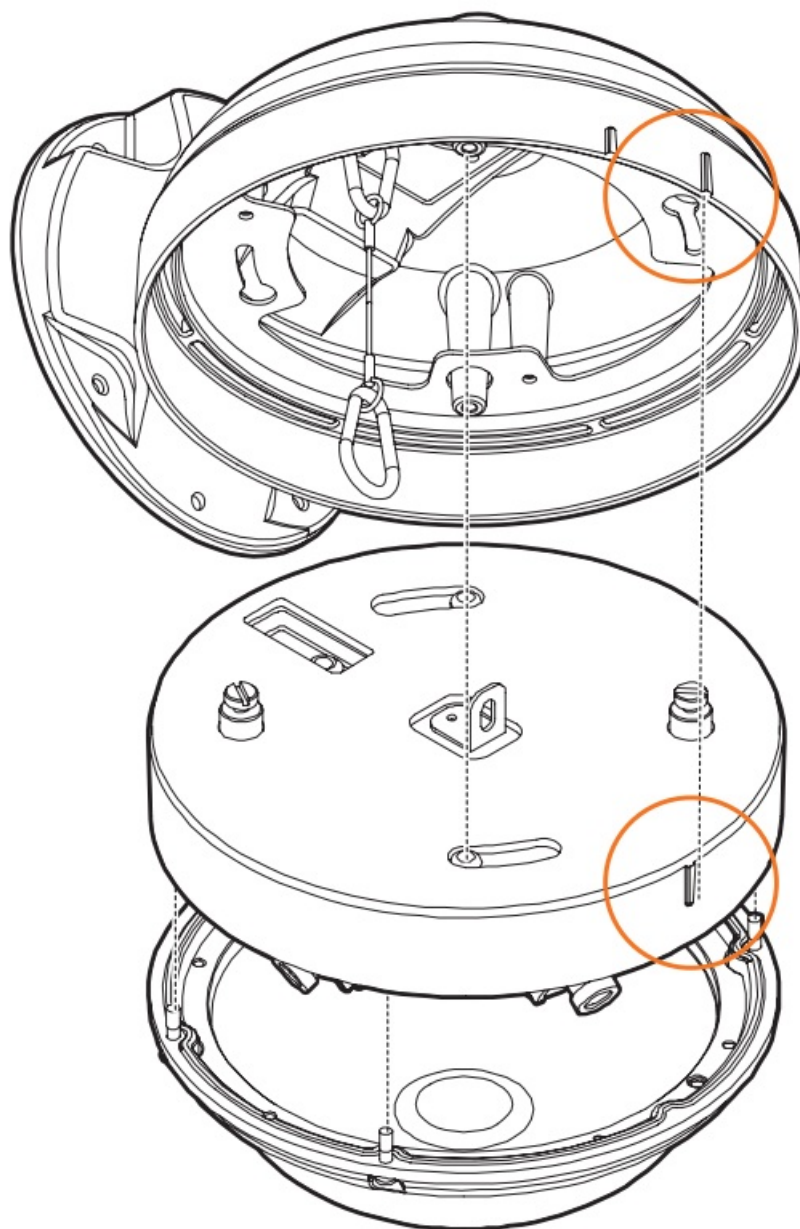
NOTE: When installing the camera, align the sensor module's direction as shown in the diagram on the left and fix the dome cover carefully. Image distortion may occur if the modules are not installed correctly.

NOTE: Do not tilt the lens angle more than 60° , for it can cause a critical image distortion and focus issues.

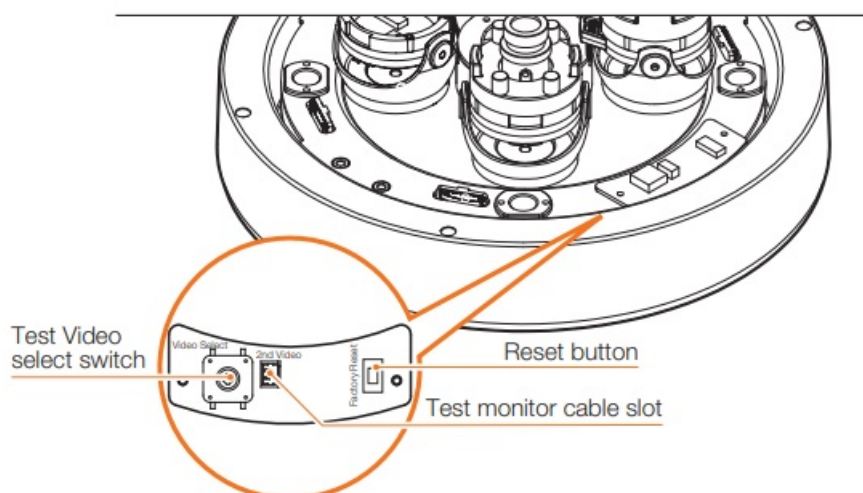
4. Gently attach the dome to the camera module by aligning the screw holes.

Softly wipe the dome with lens tissue or a microfiber cloth with ethanol to remove any dust or smudges left

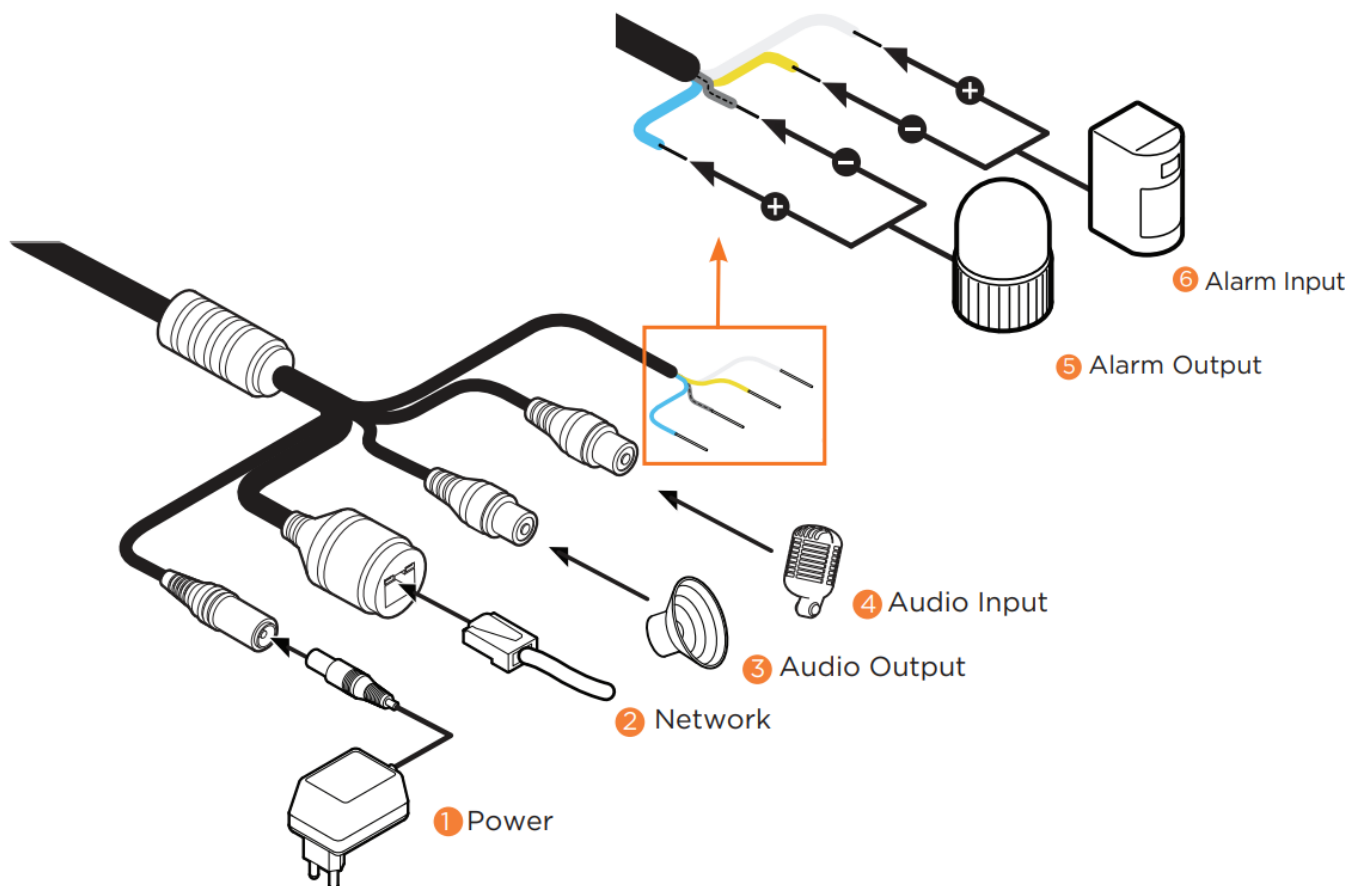
from the installation process.



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



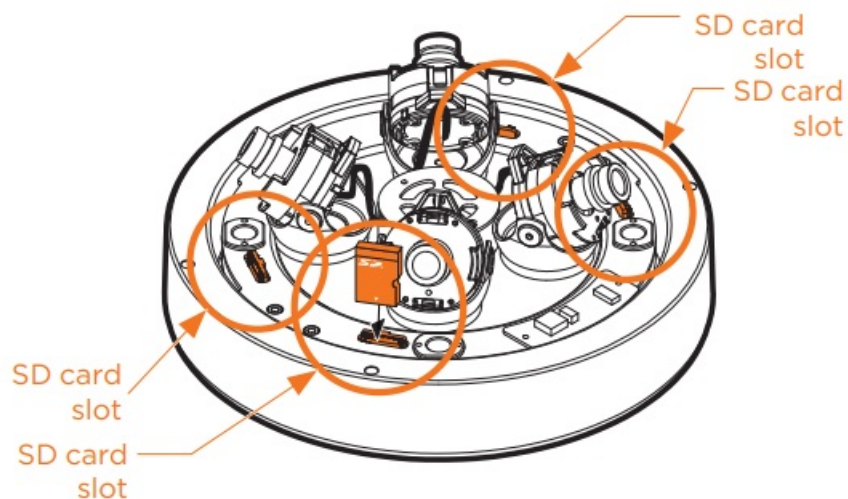
STEP 4 – CABLING



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

STEP 5 – MANAGING THE SD CARDS

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



NOTE: The camera has four (4) SD card slots, each assigned to a different sensor.

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.

Name	IP Address	Model	MAC Address	Network	Gateway	Port	DHCP	Version	Ping Test	IP Config	Uptime
DWICAPT230X	192.168.150.5	DWICAPT230X	00:07:06:19:10:1A	255.255.255.0	192.168.150.1	80	Disabled	1.0.94-X2_release	Ping	Click	
DWICAPV4400A	192.168.150.4	DWICAPV4400A	00:00:F1:21:53:8F	255.255.255.0	192.168.150.1	80	Disabled	A2.01.02_20180619	Ping	Click	28day 14hrs 11mins
DWICP231M8YT	192.168.150.4	DWICP231M8YT	00:00:F1:21:29:21	255.255.255.0	192.168.150.1	80	Disabled	A5.01.03_20180403	Ping	Click	39day 15hrs 54mins
DWICP30300A	192.168.150.4	DWICP30300A	00:00:F1:21:5C:AD	255.255.255.0	192.168.150.1	80	Disabled	S2.01.03_20180309	Ping	Click	56day 16hrs 46mins
DWICP3031TTR	192.168.150.61	DWICP3031TTR	00:0A:61:1A:00:14	255.255.255.0	192.168.150.1	80	Disabled	-	Ping	Click	--
DWICP3031TTR	192.168.150.62	DWICP3031TTR	00:0A:61:1A:26:87	255.255.255.0	192.168.150.1	80	Disabled	-	Ping	Click	--
DWICAPV4400A	192.168.150.63	DWICAPV4400A	00:00:F1:20:FB:60	255.255.255.0	192.168.150.1	80	Disabled	A2.01.02_20180619	Ping	Click	28day 14hrs 0mins

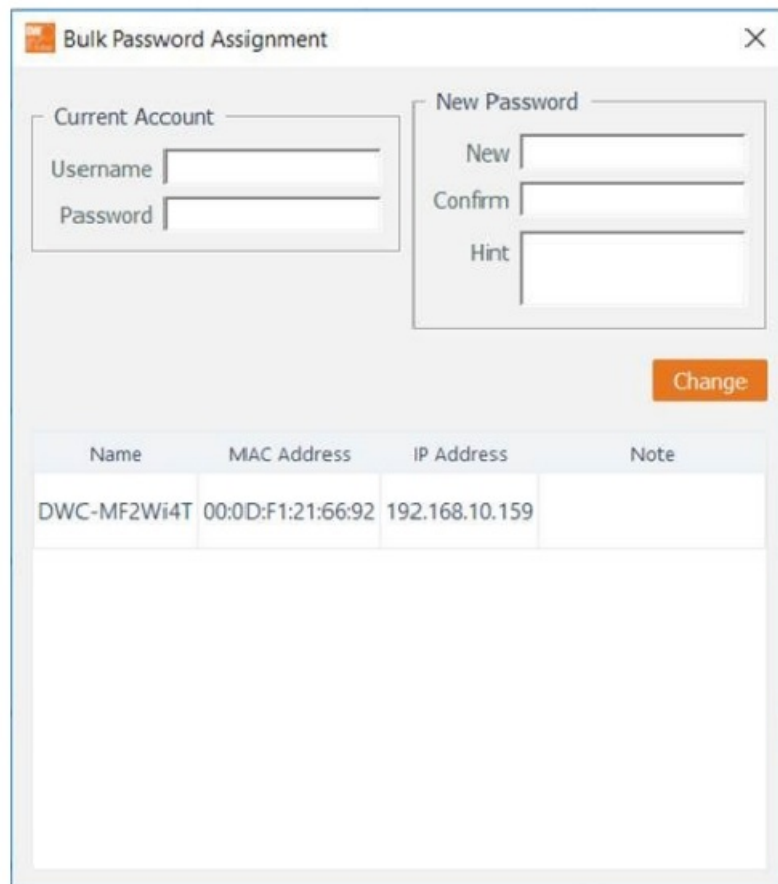
Network Setup

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 the installation file and follow the installation instructions.
4. Open the DW IP Finder and click 'Scan Devices' to scan the selected network for all supported devices. Results are 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. To set up a password for your camera:
 - a. Check the box next to the camera in the IP Finder's search results. You can select multiple cameras.
 - b. Click "Bulk Password Assign" on the left.
 - c. Enter admin/admin for the current username and password. Enter a new username and password to the

right.

Passwords must have a minimum of 8 characters with at least 4 combinations of uppercase letters, lowercase letters, numbers and special characters. Passwords cannot contain the user ID.

d. Click “change” to apply all changes.



The image shows a 'Bulk Password Assignment' dialog box. It has a title bar with a close button (X). The dialog is divided into two main sections: 'Current Account' and 'New Password'. The 'Current Account' section contains two text input fields: 'Username' and 'Password'. The 'New Password' section contains three text input fields: 'New', 'Confirm', and 'Hint'. Below these sections is an orange 'Change' button. At the bottom of the dialog 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 image or clicking on the ‘Click’ button under the IP Conf. column. The pop-up window will show the camera’s current network settings, allowing admin users to adjust the settings as needed.
7. To access the camera’s web page, click on the ‘View Camera Website’ from the IP Config window.
8. To save changes made to the camera’s setting, enter the username and password of the camera’s admin account and click ‘Apply’.



Default TCP/IP information: DHCP.



Port forwarding must be set in your network’s router to access the camera from an external network.



Select DHCP to allow the camera to receive its IP address automatically 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.

DW Camera Settings

?

×

Camera Name

DWC-MD421TIR

MAC Address

00:0D:F1:20:A4:9E

IP Configuration Mode

☒ DHCP

☐ Static IP

IP Address

192.168.1 .101

Netmask

255.255.255.0

Gateway

192.168.1 .1

DNS

192.168.40 .1

Ports

Web Port

80

Control Port

0

Video Port

0

Audio Transmit

0

Audio Receive

0

Username

admin

Password

•••••

Restore default camera configuration

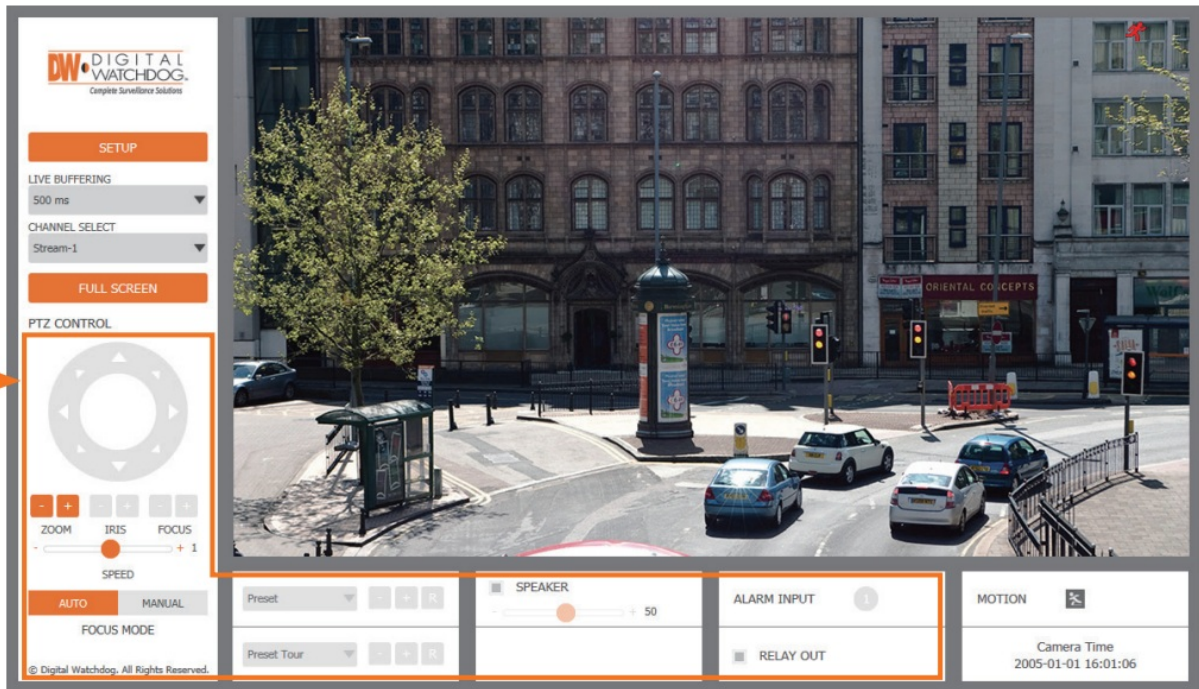
View Camera Website

Apply

Reboot

Cancel

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'. The camera's web viewer will open up in your default web browser.
4. Enter the camera's username and password (default is admin/admin).
5. If you are accessing the camera for the first time, install the VLC player for web files in order to view video from the camera.

NOTE: It is highly recommended that you change the camera's default admin password.

NOTE: 32bit version of VLC player must be installed. If you are using 64bit system, uninstall the previous 64bit version and reinstall using the 32bit version.

NOTE: Some menu options may not be available based on the camera model. See the full manual for more information.

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

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

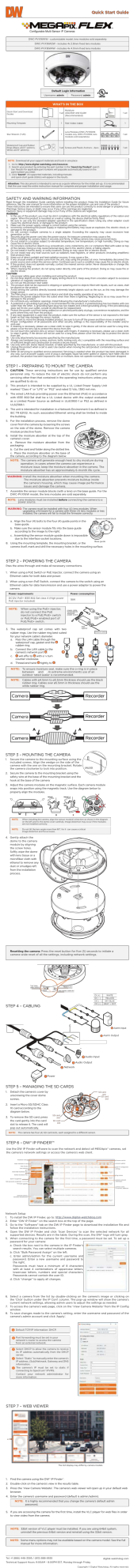
digital-watchdog.com

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Specifications and pricing are subject to change without notice.

Documents / Resources

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[DIGITAL WATCHDOG DWC-PVX16WW MEGApix Flex 16MP Multisensor Vandal Dome IP Camera \[pdf\] User Guide](#)

DWC-PVX16WW, DWC-PVX16W2W, DWC-PVX16W4W, DWC-PVX16WW MEGApix Flex 16MP Multisensor Vandal Dome IP Camera, DWC-PVX16WW, MEGApix Flex 16MP Multisens or Vandal Dome IP Camera, Multisensor Vandal Dome IP Camera, Vandal Dome IP Camera, D ome IP Camera, IP Camera, Camera

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References

- [!\[\]\(c8dce68b26731c7aa5915072fc9d68dd_img.jpg\) Digital Watchdog I Welcome](#)
- [!\[\]\(76b3245de86167eba9fcdc9cc9f32aa4_img.jpg\) Digital Watchdog I Welcome](#)
- [!\[\]\(13db7587f50867332e5bedc6a161739d_img.jpg\) Resources](#)