MEGAPIX FLEX™
Configurable Multi-Sensor IP Cameras

DWC-PVX16W2 - includes 4x 2.8mm fixed lens modules	
DWC-PVX16W4 - includes 4x 4.0mm fixed lens modules	
DWC-PVX16W - customizable model, lens modules sold separately	

Default Login Information
Username: **admin**	Password: **admin**

c UL us LISTED

WHAT'S IN THE BOX

Quick start guide and download guide		1	Moisture absorber – 2pcs absorber guide		1 set
Mounting template		1	Test video cable		1
Hex Allen wrench		1	Lens modules (DWC-PVX16W4 models only. DWC-PVX16W, lens modules sold separately).		1 set
Waterproof cap		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.

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.
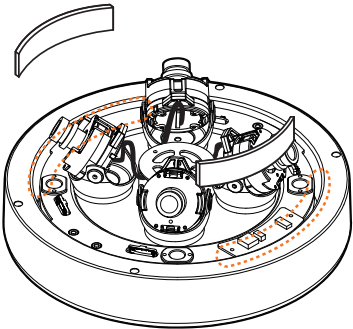
Tel: +1 (866) 446-3595 / (813) 888-9555   digital-watchdog.com

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

STEP 1 – PREPARING TO MOUNT THE CAMERA

1. The mounting surface must bear five times the weight of your camera.

2. 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.

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. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. Using the mounting template sheet, the mounting bracket, or the camera itself, mark and drill the necessary holes in the wall or ceiling.
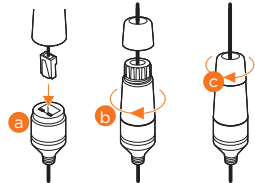
STEP 2 – POWERING THE CAMERA

Pass the wires through the mount bracket and make all necessary connections. When using the new mounting bracket, attach the camera to the safety wire in the bracket.

1. NETWORK CONNECTION – Using a PoE Switch or PoE Injector, connect the camera using an Ethernet cable for both data and power.

2. NETWORK CONNECTION – Not using 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	Power consumption
DC12V, PoE+ IEEE 802.3at class 4 (High power PoE injector included)	18W

STEP 3 – MOUNTING THE CAMERA

1. To use the camera's waterproof wiring:

   a. Install the LAN cable into (a).

   b. (b) will be assembled to (a) with a 1/4 turn.
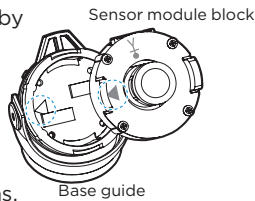
   c. Thread (c) tightly to (b).

   NOTE: To ensure moisture seal, make sure the o-ring is in place between (a) and (b). Use an outdoor-rated sealer for extreme environments.

   NOTE: When using the waterproof cap, crimp the RJ45 connector after passing the cable through the waterproof cap.
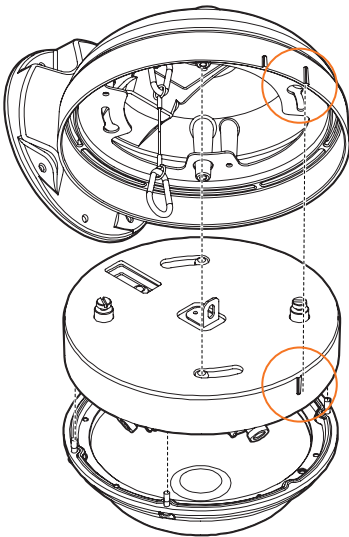
2. Once all cables are connected, secure the camera to the mounting surface using the included screws.

   a. When using the new mounting brackets, make sure to align the wedge on the side of the camera with the one on the mounting bracket. Rotate the camera clockwise to lock into position.

   UNLOCK / LOCK

   b. When using the old mounting brackets, use the mounting screws to secure the camera to the mounting bracket.

3. Assemble the sensor module block (with a lens) to 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.
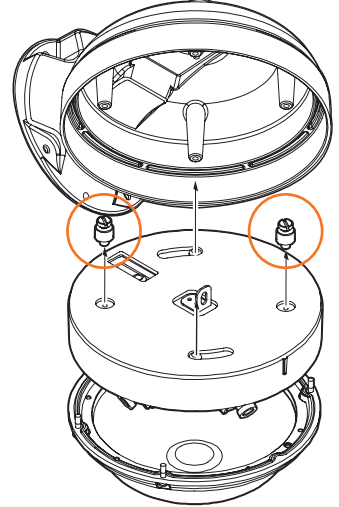
   a. Assemble the module block to the guide base by aligning the four (4) bolts to the four (4) guide points in the base guide.
   b. Make sure the sensor module fits into the base guide according to the image to the right.
   c. Assembling the sensor module upside down is impossible due to the interface socket locations.

   Sensor module block
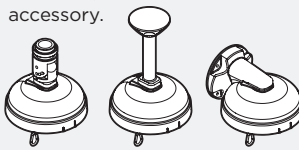
   Base guide

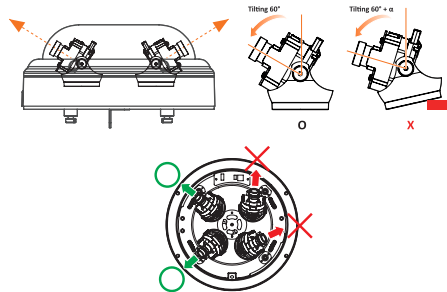Using a new mounting bracket   Using an old mounting bracket

NOTE: If your mounting bracket has a safety wire for the camera, you have the new mounting accessory.

If your mounting bracket has two (2) ridges on the side of the bracket, used to align the camera to lock into position, you have the new mounting accessory.

4. 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.
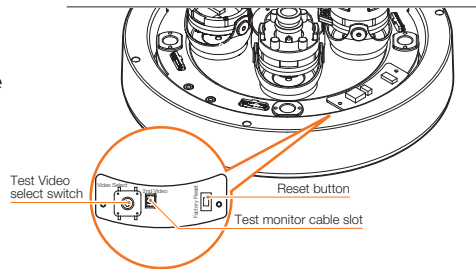
Tilting 60°   Tilting 60° + α

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.
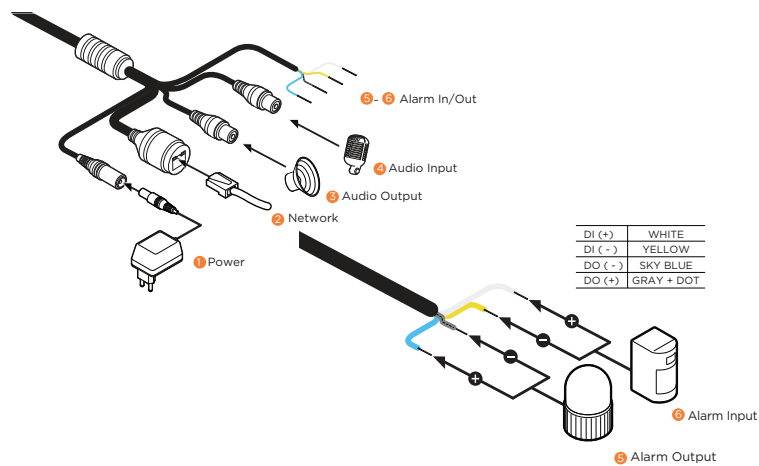
STEP 3 – MOUNTING THE CAMERA (cont.)

5. Gently re-attach the camera's dome to the camera module by aligning the screw holes.

6. Remove the dome cover protective film to complete the installation.

Test Video select switch

Reset button

Test monitor cable slot

Resetting the camera: To reset the camera, use the tip of a paper clip or a pencil and press the reset button. Pressing the button for five (5) seconds will initiate a camera-wide reset of all the settings, including network settings.
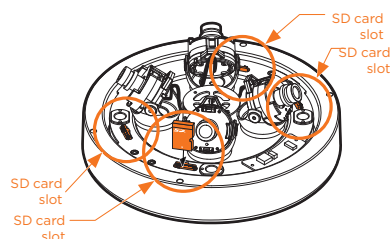
STEP 4 – CABLING

2 - 2 Alarm In/Out

Audio Input

Audio Output

2 Network

1 Power

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

2 Alarm Input

1 Alarm Output

STEP 5 – MANAGING OPTIONAL SD CARDS (optional)

To install the memory card:

1. Detach the camera's cover dome from the camera's module by unscrewing the cover dome screws.

2. Insert a Micro SD/SDHC Class 10 card according to the diagram.

3. To remove the SD card, press the card gently into the card slot to release it. The card will pop out automatically.

SD card slot

SD card slot

SD card slot

SD card slot

NOTE: The camera can accommodate up to 4 SD card slots. See the diagram above for position.

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.

Thumbnail view

Select network to scan

Filter device type to scan

Scan devices

Show/hide thumbnail view

Refresh thumbnail view

Bulk IP assignment

Firmware upgrade

Firmware version

Camera's uptime

Open Device configuration settings

Device's information

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 and press Enter.

3. Click on the DW® IP Finder™ from the search result and go to the Software tab. Click on the download icon to download the DW® IP Finder™ installation file.

4. Run the installation file and follow the wizard to install the DW® IP Finder™. 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.

ⓘ Select DHCP if the internet service is dynamic IP. This will allow the camera to 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 DW Spectrum® IPVMS. Contact your network administrator for more information.
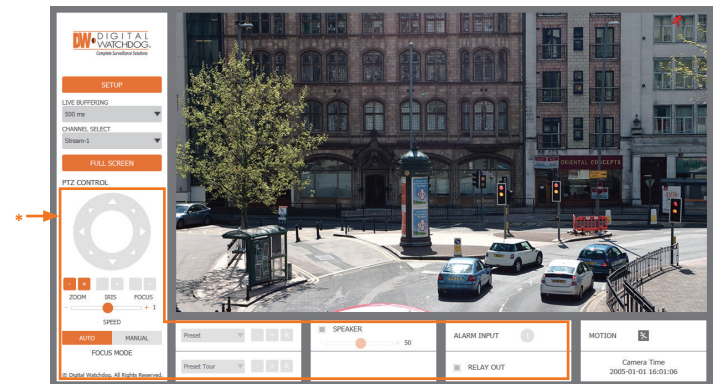
ⓘ Default TCP/IP information: DHCP

5. 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.

6. To access the camera's web page, click on 'View Camera Website'.

7. To save the changes made to the camera's setting, input the username and password of the camera and click Apply. Click "Scan Devices" from the main screen again to display the updated information.

ⓘ 'Port forwarding' has to be set in your network's router for external access to the camera.

ⓘ Default ID / PW: admin / admin

*NOTE: For security purposes, it is highly recommended to change your password after initial setup.

STEP 7 – WEB VIEWER

The GUI display may differ by camera models.

Once the camera's network settings have been setup properly, you can access the camera's web viewer using the DW IP Finder™.

To open the camera's web viewer:

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: 32bit version of VLC player must to 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.

NOTE: Please see the full user manual for web viewer set up, functions and camera settings options.