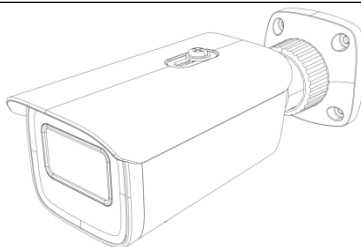


# Product Maintenance Manual

2M Varifocal Bullet Network Camera  
PM-VB2ULVR-W



## SPECIFICATIONS

|            |                       |                                                                                           |
|------------|-----------------------|-------------------------------------------------------------------------------------------|
| Camera     | Image Sensor          | 1/2.8 "CMOS                                                                               |
|            | Image Size            | 1920×1080                                                                                 |
|            | Iris Type             | Fixed Iris                                                                                |
|            | Min. Illumination     | 0.005 lux @F1.6, AGC ON; 0 lux with IR                                                    |
|            | Lens                  | 2.8~12mm@F1.4                                                                             |
|            | Focus                 | Motorized                                                                                 |
|            | Angle Adjustment      | Pan: 0°~360°; Tilt:0°~90°;Rotation: 0°~360°                                               |
| Image      | Video Compression     | Main stream: H.265+/H.265/H.264+/H.264<br>Sub/thirdstream:H.265+/H.265/H.264+/H.264/MJPEG |
|            | Bit Rate              | 128 Kbps~6 Mbps                                                                           |
| Interfaces | Network               | RJ 45 10M/100M self-adaptive Ethernet port                                                |
|            | Audio                 | 1CH audio input; 1CH built-in MIC                                                         |
| Functions  | Remote Monitoring     | Web browser/NVR/NVMS2.X/Mobile APP                                                        |
|            | Interface Protocol    | ONVIF                                                                                     |
|            | IR Distance           | 30 ~ 50 m                                                                                 |
|            | Ingress Protection    | IP67                                                                                      |
| Others     | Power Supply          | DC12V/PoE                                                                                 |
|            | Power Consumption     | < 8.5W                                                                                    |
|            | Operating Environment | -30 °C~60 °C(-22°F~140°F);<br>Humidity: less than 95 % (non-condensing)                   |
|            | Dimensions ( mm )     | 218.1×70.4×80.3                                                                           |

**Panasonic**

### **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public.

It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



**CAUTION**  
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid any problems.

### **IMPORTANT SAFETY NOTICE**

There are special components used in this equipment which are important for safety. These parts are indicated by the “” mark on the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without permission of manufacture.

### **About lead free solder (PbF)**

#### **Distribution of PbF PCB:**

PCBs (manufactured) using lead free solder (PbF) will have a stamp on the PCB.

#### **Caution:**

- Lead free solder has a higher melting point than standard solder. Typically, the melting points is 35°C - 40°C (95°F - 104°F) higher. Please use a soldering iron with temperature control and adjust it to 360°C - 370°C (680°F - 698°F). In case of using high temperature soldering iron, please be careful not to heat too long.
- Lead free solder will tend to splash when heated too high (600°C/1112°F).
- Lead free solder (Sn-3.0Ag-0.5Cu) or equivalents are recommended on repairing our lead solder PCB.

## Contents

**Chapter 1:How to reset your device's password?**

**Chapter 2:How to upgrade your device?**

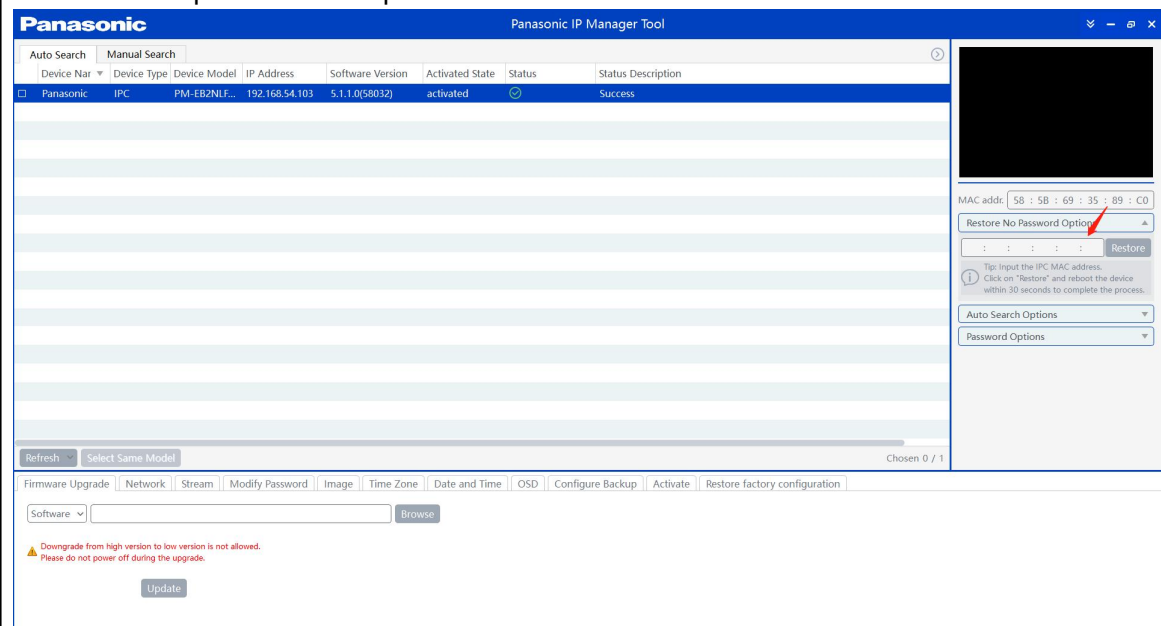
## Chapter 1 How to reset your device's password

### 1.1 Open the IP Manager Tool software in your desktop/PC



The latest version of the firmware's can be downloaded from the Panasonic website.

### 1.2 Once the IP manager software searches all the connected device, select the camera for which reset of password is required and enter the MAC ID as shown below.



### 1.3 Click on "Restore"

### 1.4 Power-off & Power-on (Reboot) the device, within 30 seconds to complete the process.

## Chapter 2 How to upgrade your device?

2.1 Open IP Manager tool and select the device for firmware upgrade and enter the username and password details as shown in the below screenshot as a reference.

The screenshot shows the Panasonic IP Manager Tool interface. The 'Firmware Upgrade' tab is selected. The 'Software' dropdown menu is highlighted with a red box. The 'Update' button is visible below the dropdown. The interface also shows a table of devices and a sidebar with various configuration options.

| Device Name | Device Type | Device Model | IP Address     | Software Version | Activated State | Status  | Status Description |
|-------------|-------------|--------------|----------------|------------------|-----------------|---------|--------------------|
| Panasonic   | IPC         | PM-EB2NLF... | 192.168.54.103 | 5.1.1.0(58032)   | activated       | Success |                    |

2.2 Select the corresponding software package to upgrade  
(latest version of the firmware can be downloaded from the Panasonic web site)

The screenshot shows the Panasonic IP Manager Tool interface. The 'Firmware Upgrade' tab is selected. The 'Software' dropdown menu is highlighted with a red box. The 'Update' button is visible below the dropdown. The interface also shows a table of devices and a sidebar with various configuration options.

| Device Name | Device Type | Device Model | IP Address     | Software Version | Activated State | Status  | Status Description |
|-------------|-------------|--------------|----------------|------------------|-----------------|---------|--------------------|
| Panasonic   | IPC         | PM-EB2NLF... | 192.168.54.103 | 5.1.1.0(58032)   | activated       | Success |                    |

2.3 to Upgrade the camera devices, please select the relevant files as shown from the below table

### **Note:**

- Downgrading the firmware from higher version to lower version is not allowed.
- Ensure that the power supply is not interrupted, or device is switched off during the

upgrading process.

Below is the firmware details mapped with camera model numbers.

For Example:

PM-VB2ULVR (Model number) - 5.2.3 (Software version) - 20240725 (Firmware release date)

Firmware file: PM-VB2ULVR-5.2.3-20240725.pkg