

# User Manual

## All- In- One Camera

### VLD1A



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# Welcome

Thank you for purchasing our All in One camera!

This user's manual is designed to be a reference tool for your system.

Please read the following safeguard and warnings carefully before you use this product!

Please keep this user manual for future reference!

## Important Safeguards and Warnings

### 1 . Electrical safety

All installation and operation here should conform to your local electrical safety codes.

Please check if the power supply is correct before operating the device.

The power shall conform to the requirement in the SELV (Safety Extra Low Voltage) and the Limited power source is rated DC 12V or AC24V in the IEC60950-1. (Power supply requirement is subject to the device label).

Please install easy-to-use device for power off before installing wiring, which is for emergent power off when necessary.

Please prevent the line cord from being trampled or pressed, especially the plug, power socket and the junction from the device.

**Note: Do not connect these two power supplying sources to the device at the same time; it may result in device damage!**

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

We are not liable for any problems caused by unauthorized modification or attempted repair.

### 2 . Environment

Please don't aim the device at strong light (such as lighting, sunlight and so on) to focus; otherwise it may cause overexposure (It is not the device malfunction), which will affect the longevity of CCD or CMOS.

Please transport, use and store the device within the range of allowed humidity and temperature.

Please don't keep the device in a place which is wet, dusty, extremely hot, and extremely cold and with strong electromagnetic radiation or unstable lighting.

Please do not allow water and other liquid falling into the camera in case that the internal components are damaged.

Please do not allow rain or damp to the indoor device in case fire or lightning may occur.

Please keep the sound ventilation in case of heat accumulation.

Please pack the device with standard factory packaging or material with same quality when transporting the device.

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

### **3. Operation and Daily Maintenance**

Please do not touch the heat dissipation component of the device directly in order to avoid scald.

Please do not dismantle the device; there is no component which can be fixed by users themselves in the machine. It may cause water leakage or bad image for the device due to unprofessional dismantling.

It is recommended to use the device with thunder proof device in order to improve thunder proof effect.

The grounding holes of the product are recommended to be grounded to further enhance the reliability of the camera.

Do not touch the CCD (CMOS) optic component directly. You can use the blower to clean the dust or dirt on the lens surface. Please use a dry cloth wetted by alcohol to wipe away the dust gently if it is necessary to clean.

Always use the dry soft cloth to clean the device. If there is too much dust, please use the water to dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean the device. Don't use volatile solvent like alcohol, benzene, thinner and etc or strong detergent with abrasiveness, otherwise it will damage the surface coating or reduce the working performance of the device.

Dome cover is an optical device, please don't touch or wipe cover surface directly during installation and use, please refer to the following methods to deal with once dirt is found:

Stained with dirt

Use oil-free soft brush or hair dries to remove it gently.

Stained with grease or fingerprint

Use soft cloth to wipe the water drop or oil gently to make it dry, then use oil-free cotton cloth or paper soaked with alcohol or detergent to wipe from the lens center to outward. It is ok to change the cloth and wipe several times if it is not clean enough.

## **Warning**

Please use the standard accessories and make sure the device is installed and fixed by professional engineers.

Please prevent the device surface from the radiation of laser beam when using laser beam device.

Please do not provide two or more power supply modes for the device, otherwise it may cause damage to the device.

## **Statement**

Please refer to the actual product for more details; this manual is just for reference. The manual will be regularly updated according to the product update; the updated content will be added in the manual without prior announcement.

Please contact Speco Technologies if there are any problems when using the device. There may be deviation between the actual value of some data and the value provided in the manual due to the reasons such as the real environment is not stable and so on.

Speco Technologies is not liable for any loss caused by the operation which is not followed by the manual.

# 1 General Introduction

## 1.1 Features

- High-performance CMOS image sensor, megapixel definition.
- Support HD video, control signal coaxial transmission.
- Support HDTVI/AHD/CVI/CVBS output.
- Support OSD menu adjustment parameters.
- Support smart IR function.
- Support DWDR function.
- Support High speed, long distance real-time transmission.
- Support DC12V power supplying.
- Support IP67 compliance.
- Support ICR switch to realize surveillance both in the daytime and at night.
- Support photosensor IR control function.
- It can be applied to the various scenes such as store, supermarket, coffee shop, school, hotel, office, restaurant, garden, parking lot and etc.

## 2 Device Framework

See Figure 2-1 for the dimension.

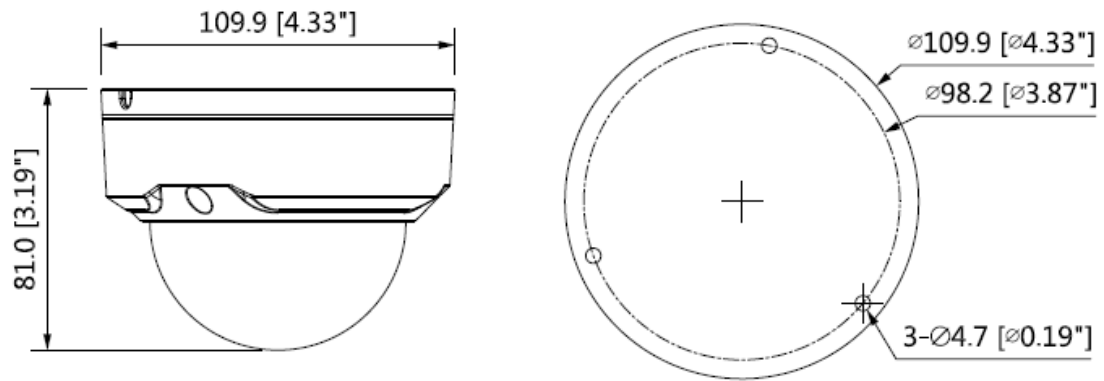


Figure 2-1

See Figure 2-2 for the structure components.

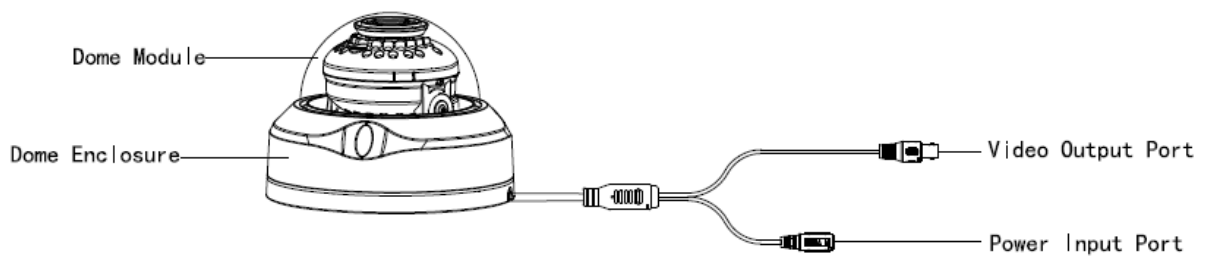


Figure 2-2

### 3 Installation

Dome camera mainly uses ceiling installation; installation surface includes ceiling and wall.

#### Attention:

- Please install the device in time after it is taken apart, which is to avoid the camera module being exposed to damp environment for too long.
- Please make sure the installation surface is thick enough to sustain at least 3X weight of the camera.
- For the installation mode of side outlet, you have to pull the cable through the pedestal cable slot before locking the screws.
- Before you complete the installation and debugging, do not remove the electrostatic attraction film on the transparent enclosure. Otherwise it may result in injury. After removing the electrostatic attraction film, don't touch the dome enclosure in case it may leave stain.
- The figures below are for reference only.

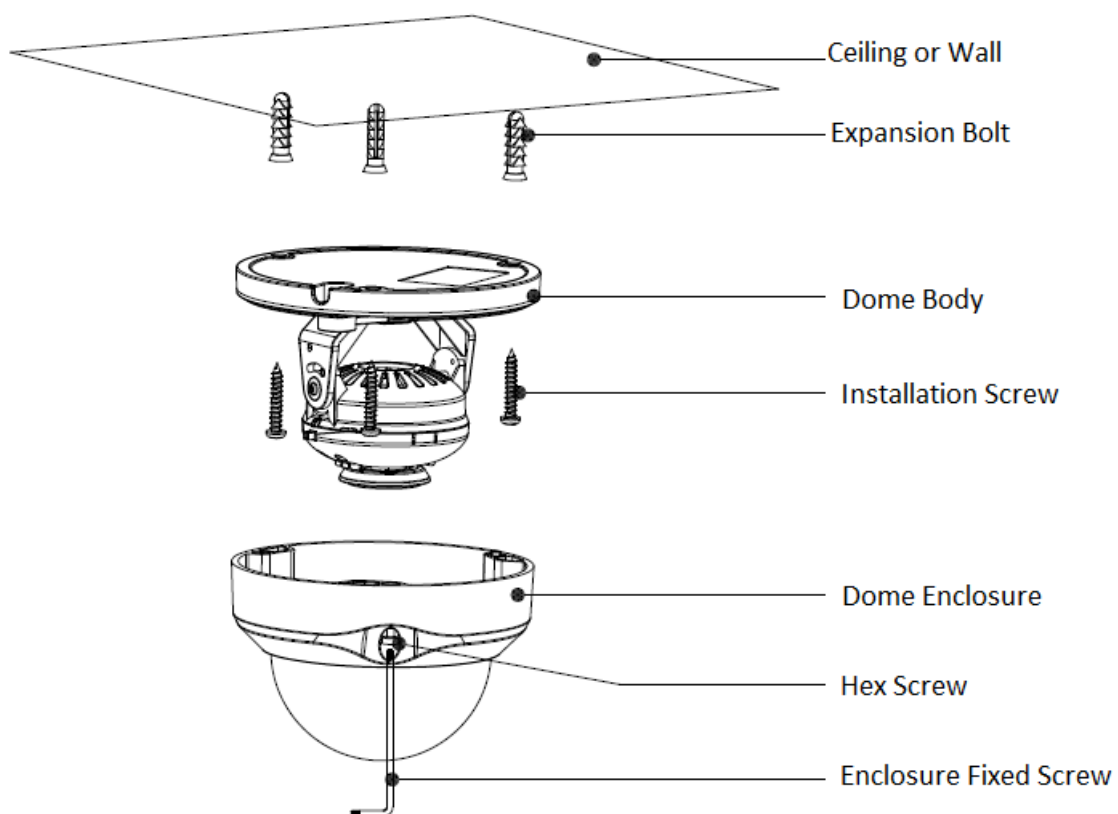


Figure 3-1

#### Step 1

Use wrench to loosen three fixing screws on the enclosure and remove the dome cover.



## Step 2

Confirm the installation location and dig holes on the installation surface.

## Step 3

Use tools to put the expansion bolts into the installation holes and fix them firmly.

## Step 4

Adjust the location of the device installation pedestal; pull the cable through the hole on the installation surface. Align the bolt fixing holes of the device pedestal with the expansion bolt fixing holes on the installation surface; insert the self-tapping screws into the expansion bolts and fasten them firmly to fix the pedestal on the installation surface.

## Step 5

Connect the video output port of the device cable to the back-end encoding device, and make the power port connect to power.

## Step 6

Adjust lens angle to a proper monitoring location after displaying image on the back-end encoding device (if it is model B, it can adjust focal length to make image clear via focusing tool). See Figure 3-2.

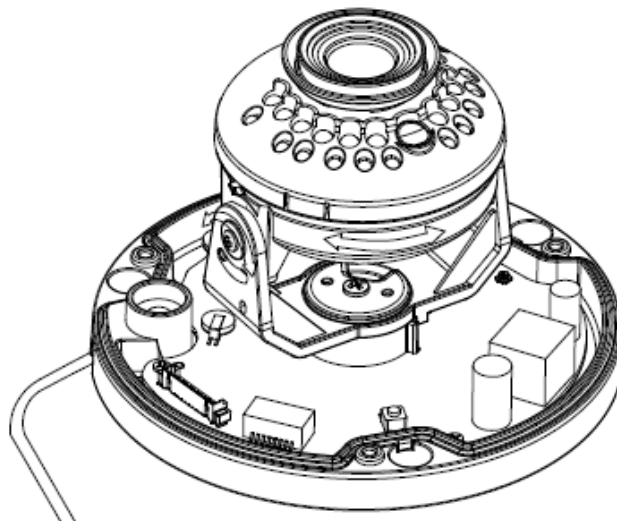


Figure 3-2

## Step 7

Lock the screws firmly and fix the dome enclosure on the pedestal.

So far, camera installation and cable connection are completed; you can check monitoring video via back-end coding device.

## **Note**

- **This manual is for reference only. Slight difference may be found in the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
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