GD-CT-AC2126V

HD-TVI Dome Camera
User Guide

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FOR A GOOD REASON
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Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

This manual may contain technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

Privacy Notice
Surveillance laws vary by jurisdiction. Check all relevant laws in your jurisdiction before using this product for surveillance purposes to ensure that your use of this product conforms. Please refer to the product specification for camera parameters and functions.

Introduction
Please read these instructions carefully and keep them for future reference. You must heed all the warnings and cautions as well as follow all the safety and installation instructions.

Safety Instructions
Make sure that you only use the power adapter that is specified in the specifications sheet of the product. If you use any other adapter or connect the power supply incorrectly, this may cause explosion, fire, electric shocks or damage the product.

Do not connect several devices to one power adapter as this may cause an adapter overload and can lead to over-heating and fire. Make sure that the plug of the power adapter is firmly connected to the power socket. Do not use any accessories that are not recommended by GRUNDIG. Do not modify the product in any way. If the product starts to smell or smoke comes out of the device, immediately stop using the product and disconnect it from the power supply to prevent fire or electric shocks. Then contact your dealer or the nearest service center.
If the product does not work correctly, contact your dealer or nearest service center. Never open, disassemble or alter the product yourself. GRUNDIG cannot accept any liability or responsibility for problems caused by attempted and unauthorized repair and maintenance.
Do not aim the camera or camera lens at a strong light such as the sun or a bright lamp. Irreversible damage to the camera can be caused by a strong light.
Do not expose the sensor of the product to laser beams as this may damage the sensor.
Do not install the product near radiation sources.
Do not install the product near heat sources, like radiators or other equipment that produces some heat.

Installation References
Do not install the product on surfaces or in places that are vibrating. This product is not dedicated to be used in vehicles, trains etc..
Do not touch the sensor module with your fingers.
Do not install the product on places where the lower dome is exposed to direct sunlight. This may overheat the product and/ or cause sunlight reflections on the video image.
Never install the product outside when it is raining. Once humidity enters the interior of the camera, it will eventually fog up at the dome.
Always adjust the focus by using a grey filter or at low illumination.
If the product supports IR, you need to take some precautions to prevent IR reflection. Do not install the product close to reflective surfaces of objects as this may cause reflection. The foam ring around the lens must be seated flush against the inner surface of the bubble to isolate the lens from the IR LEDS. Fasten the dome cover to the camera body so that the foam ring and the dome cover are attached seamlessly.

1 INTRODUCTION

1.1 Product Features

This camera adopts new generation sensor with high sensitivity and advanced circuit board design technology. It possesses the features of high resolution, low distortion, and low noise, etc. It is extremely suitable for supervisory system and image processing system.
The main features are as follows:
• High performance CMOS sensor and high resolution bring high-quality image;
• Low illumination;
• Support IR cut filter with auto switch;
• OSD menu, parameters are configurable;
• Support auto white balance, auto gain control, electronic shutter control and internal synchronization;
• SMART IR mode;
• Unit transmission control;
• Advanced 3-axis design meets different installation requirements.

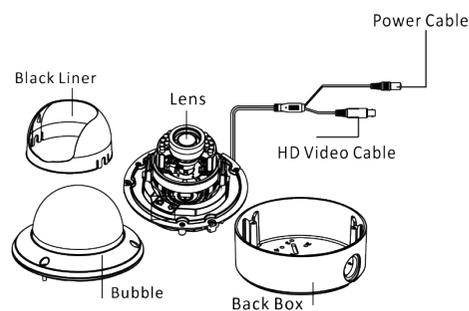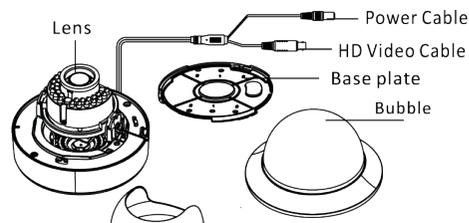**1.2   Overview**

1.2.1   Overview of Type I Dome Camera

Figure 1-1 Overview of Type I Dome Camera

1.2.2   Overview of Type II Dome Camera

2 INSTALLATION

Before you start:
• Please make sure that the device in the package is in good condition and all the assembly parts are included.
• Make sure that all the related equipment is power-off during the installation.
• Check the specification of the products for the installation environment.
• Check whether the power supply is matched with your power output to avoid damage.
• Please make sure the wall is strong enough to withstand three times the weight of the camera and the mounting.
• If the wall is the cement wall, you need to insert expansion screws before you install the camera. If the wall is the wooden wall, you can use self-tapping screw to secure the camera.
• If the product does not function properly, please contact your dealer or the nearest service center. Do not disassemble the camera for repair or maintenance by yourself.

2.1 Ceiling Mounting
Steps:

1. Drill the screw holes and the cable hole on the ceiling according to the supplied drill template.

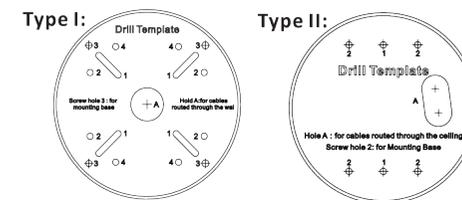**Type I:**   **Type II:**

Figure 2-1 The Drill Template

2. Loosen the screws on the bubble of type 1 camera /rotate the bubble of type2 camera to remove the bubble and the black liner.
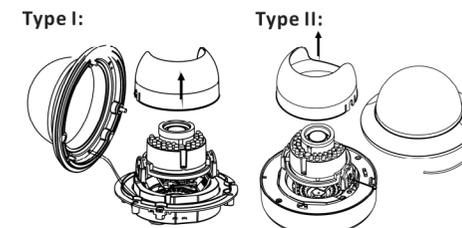
Type I: **Type II:**

Figure 2-2 Remove the Bubble

3. Attach the back box of type 1 camera /base plate of type2 camera to the ceiling and secure them with supplied self-tapping screws.
4. Route the cables through the cable hole.
5. Align the camera with the back box/base plate, and tighten the set screws to secure the camera with the back box/base plate.
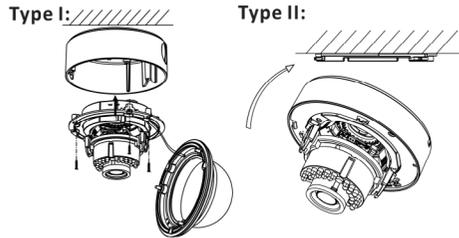
Type I: / / / / / / / / /   **Type II:**

Figure 2-3 Fix the Camera to the Ceiling

6. Connect the corresponding cables.
7. Adjust the camera according to the figure below to get an optimum angle.
8. Fit the black liner on the camera and tighten the screws on the bubble of type 1 camera or rotate the bubble of type 2 camera to complete.
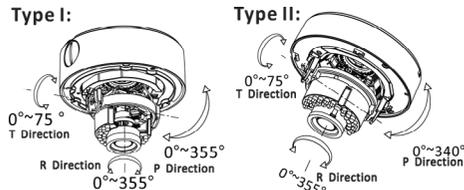
Type I: **Type II:**

0°~75° T Direction
0°~355° R Direction
P Direction
0°~355°
0°~75° T Direction
0°~355°
R Direction
0°~340° P Direction

Figure 2-4 3-axis Adjustment

2.2 In-ceiling Mounting

NOTE
You need to purchase an in-ceiling mount separately if you adopt in-celling mounting.
Steps:
1. Drill the screw holes and the cable hole in the ceiling according to the supplied drill template.
2. Screw the bolts through the mount by aligning with the 2 bolt holes. Fit the toggles onto the bolts.
3. Push the two toggle bolts through the two screw holes on the ceiling. Rotate the bolt till the toggle holds the ceiling tightly.
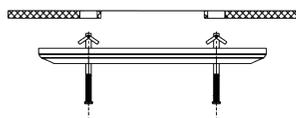

Figure 2-5 Install the Mount

4.Route and connect the corresponding cables.
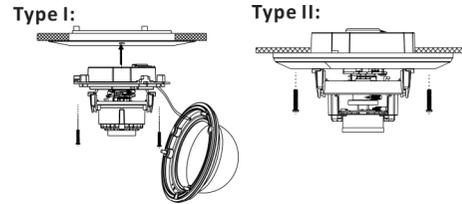5.Fix the camera to the in-ceiling mount with the supplied screws.

Type I: **Type II:**

Figure 2-6 Fix the Camera to the Mount

6. Repeat steps 6-8 of the Ceiling Mounting section to complete the installation.

2.3 In-ceiling Mounting

NOTE
in-ceiling mounting with gang box is supported by the both types of camera.

1.Repeat steps 2-3 of the In-ceiling Mounting section to secure the in-ceiling mount (supplied) to the gang box.
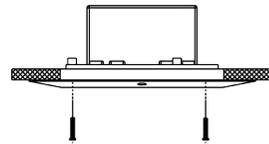

Figure 2-7 Install the Mount

2. Route and connect the corresponding cables.
3. Align the camera with the gang box, and tighten the screws to secure the camera with the gang box.
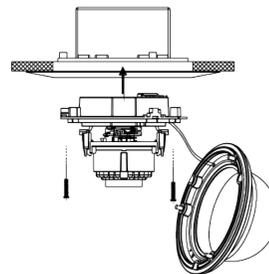

Figure 2-8 Fix the Camera to the Gang Box

5. Repeat steps 6-8 of the Ceiling Mounting section to complete the installation.
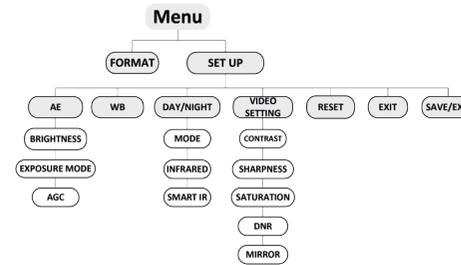
3 MENU OPERATION

Figure 3-1 Main Menu

NOTE

With a coaxial camera controller (purchase separately) or calling the preset No.95 you can select the menu and adjust the camera parameters.

3.1 FORMAT
You can set the format as PAL/NTSC.

3.2 SET UP
Move the cursor to **SET UP**, and press menu button to enter the SET UP sub menu.

3.2.1 AE
Move the cursor to AE, and you can adjust the image brightness by the **BRIGHTNESS**, **EXPOSURE MODE**, and **AGC**.
Brightness:
Brightness refers to the brightness of the image.
Exposure Mode:
Move the cursor to Exposure Mode, you can select the exposure mode between Globe and BLC.
When BLC is selected as the exposure mode, the level of BLC mode can be adjusted, as shown in the Figure 3-2.

EXPOSURE	
1.BRIGHTNESS	◄ 5 ►
2.EXPOSURE MODE	◄ BLC ►
LEVEL	◄ 5 ►
3.AGC	◄ MIDDLE ►
4.RETURN	↵

WB	
MODE	MWB
R GIAN	1-|--10
B GAIN	1-|--10
RETURN	↵

Figure 3-2 EXPOSURE   Figure 3-3 WB

AGC:
AGC optimizes the clarity of image in poor light scene. AGC level can be set as OFF, LOW, MIDDLE and HIGH.

3.2.2 WB
Move the cursor to WB, and you can set White Balance mode as **AWB** and **MWB** in this menu.

AWB: white balance is being adjusted automatically.
MWB: Set the **R GAIN/B GAIN** value from 1 to 10. As shown in Figure 3-3.

3.2.3 DAY & NIGHT
Move the cursor to DAY & NIGHT, and select **COLOR, B/W**, or **SMART** as the DAY & NIGHT mode.
COLOR: The image is colored in day mode all the time.
B/W: The image is black & white all the time, and the IR LED turns on in the low-light conditions.
SMART: Select to turn on/off the INFRARED_LAMP and to set the Smart IR level from 1to 16.
As shown in Figure 3-4.

DAY/NIGHT	
MODE	SMART
INFRARED	OFF
SMART IR	0-|--5
RETURN	↵

Figure 3-4 DAY/NIGHT

3.2.4 VIDEO SETTING

Contrast:
Contrast enhances the difference in color and light between parts of an image.
You can set the value from 1 to 10.
Sharpness:
Sharpness determines the amount of detail that an imaging system can reproduce. You can set the value from 1 to 10.
Saturation:
You can set the saturation level of the image. The value is from 0 to 10.
DNR:
DNR decreases the noise effect, especially in low light conditions and delivers more accurate and sharp image quality. You can set the value from 0 to 7.

Mirror:
You can set the Mirror status as H, V, HV, or OFF.

3.2.5 Reset
Reset all the settings to the default.

3.2.6 EXIT
Exit and Save & exit are selectable.

3.2.7 SAVE/EXIT
Move the cursor to , and press OK to save the settings and exit the menu.