



UG-GD-CT-BP2837T-2019-02-03-V3-EN ©ABETECHS GMBH, DÜSSELDORF, GERMANY

Limitation of Liability / Legal Disclaimer

Abetechs GmbH (Grundig Security) undertakes all reasonable efforts to verify the integrity and correctness of the contents in this document, but no formal guarantee shall be provided. Use of this document and the subsequent results shall be entirely on the user's own responsibility. Abetechs GmbH (Grundig Security) reserves the right to change the contents of this document without prior notice. Design and specifications are subject to change without prior notice.

The product described herein, with its hardware, software and documentation is provided "as is", without any warranty, expressed or implied, including without limitation, merchantability, satisfactory

quality, fitness for a particular purpose, and non-infringement of a third party. In no event will our company and its employees or agents be liable to you for any special, consequential, incidental, or indirect damages, including among others, damages for loss of business profits, business interruption, or loss of data or documentation, in connection with the use of this product, even if our company has been advised of the possibility of such damages.

Regarding to products with internet access, the use of the product shall be wholly at your own risks. Our company shall not take any responsibilities for abnormal operation, privacy leakage or other damages resulting from cyberattack, hacker attack, virus inspection, or other internet security risks; however, our company will provide timely technical support if required. Surveillance laws vary by jurisdiction before using this product in order to ensure that your use conforms to the applicable law. Our company shall not be liable in the event that this product is used with illegitimate purposes.

In the event of any conflicts between this manual and the applicable law, the later prevails.

Trademark:

Each of trademarks herein is registered. The name of this product and other trademarks mentioned in this manual are the registered trademark of their respective company.

Copyright of this document is reserved. This document shall not be reproduced, distributed or changed, partially or wholly, without formal authorization.

OPEN SOURCE SOFTWARE LICENSE INFORMATION

The software components provided with Grundig products may contain copyrighted software that is licensed under various open source software licenses. For detailed information about the contained open source software packages, the used package versions, license information and complete license terms, please refer to the product detail pages on our website. The complete open source software license information is also included in firmware files of affected products. Please also check your product's CD-ROM and manuals for additional information.

You may obtain the complete corresponding open source part of a specific product from us for a period of three years after our last shipment of this product by sending an email to: info@grundig-security.com

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. The appearance of the products, functions and firmware or software upgrade may differ from this manual.

GRUNDIG reserves the right to perform needed changes without prior notice.

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 place containers with liquids on the product. Do not place conducting items like tools, screws, coins or other metal items on the product. These may fall from the product or can cause fire or electric shocks or other physical injuries.

Do not push or insert any sharp items or any objects into the device as this may cause damage to the product, fire, electric shocks and/or physical injuries.

Do not block any ventilation openings, if there are any. Ensure that the product is well ventilated to prevent any over-heating.

Do not subject the device to physical shock or drop the product.

If the product uses batteries, please use a battery type that is recommended by the manufacturer. Improper use or replacement of the battery may result in the hazard of explosion.

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.

Installation Instructions

It is necessary to fix the device firmly if the product is installed on a wall or ceiling.

Do not install the product on surfaces or in places that are vibrating.

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.

If the product is not classified by any IP class, do not install the product in very cold or hot temperatures (please refer to the working temperature specified in the specification sheet of the product), dusty, dirty or damp environment.

If the product is classified by any IP class, never touch the product cover directly with your fingers, because the acidic sweat of the fingers may damage the surface coating of the product cover. To clean the inside and outside of the product cover, use a soft and dry cloth. In any case, do not use alkaline detergents.

The correct configuration of all passwords and other security settings is the sole responsibility of the installer and/or end-user (this applies especially to IP Cameras and Recorders).

Special Installation Instructions for Cameras

Do not touch the sensor module with your fingers.

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.

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. If the product has a dome cover, please remove the protection film only after installation to prevent dust or grease on the camera which can 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.

For cleaning use a clean cloth with a bit of ethanol and wipe it carefully and gently. In any case do not use alkaline detergents. If a glove is provided in the package, please use it to open the product cover. Never touch the product cover directly with fingers, because the acidic sweat of the fingers may damage the surface coating of the product cover.

1 Introduction

1.1 Product Features

The main features are as follows:

- 8 MP high performance CMOS sensor
- Low illumination, 0.008 Lux @ (F1.2, AGC ON), 0 Lux with IR
- IR cut filter with auto switch
- 120 dB WDR
- OSD menu with configurable parameters
- Auto white balance
- Internal synchronization
- Smart IR mode
- 3-axis adjustment

1.2 Overview

1.2.1 Overview of the Camera

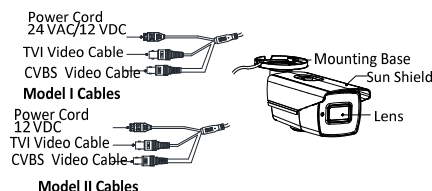


Figure 1-1 Overview of the Camera

2 Installation

2.1 Ceiling Mounting/Wall Mounting without Junction Box

Before you start:

Both wall mounting, and ceiling mounting are suitable for the bullet camera. Ceiling mounting will be taken as an example in this section. And you can take the steps of ceiling mounting as a reference for wall mounting.

Steps:

1. Paste the drill template (supplied) to the place where you want to install the camera.
2. Drill the screw holes, and the cable hole (optional) in the ceiling according to the drill template.

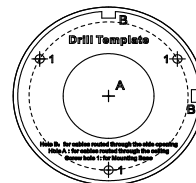


Figure 1-1 Drill Template

Note:

Drill the cable hole, when adopting a ceiling outlet to route the cable.

3. Route the cables through the cable hole, or the side opening.
4. Fix the camera to the ceiling with the supplied screws.

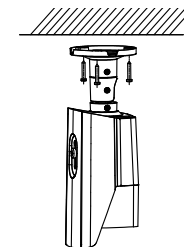


Figure 1-2 Fix the Camera to the Ceiling

Note:

- The supplied screw package contains self-tapping screws, and expansion bolts.
 - For a cement wall, expansion bolts are required to fix the camera. For a wooden wall, self-tapping screws are required.
5. Connect the corresponding power cord, and video cable.
 6. Power on the camera to check whether the image on the monitor is gotten from the optimum angle. If not, adjust the surveillance angle.

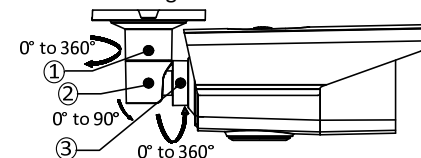


Figure 1-3 3-axis Adjustment

- 1) Loosen the No. ① adjusting screw to adjust the pan position [0° to 360°]. Tighten the No. ① adjusting screw.
- 2) Loosen the No. ② adjusting screw to adjust the tilting position [0° to 90°]. Tighten the No. ② adjusting screw.
- 3) Loosen the No. ③ adjusting screw to adjust the rotation position [0° to 360°]. Tighten the No. ③ adjusting screw.

2.2 Ceiling/Wall Mounting with Junction Box

Before you start:

You need to purchase a junction box first.

Steps:

1. Paste the junction box's drill template on the ceiling/wall.
2. Drill screw holes, and the cable hole (optional) in the ceiling/wall according to the holes of the drill template.

Note:

Drill the cable hole, when adopting a ceiling outlet to route the cable.

3. Take apart the junction box, and align the screw holes of the bullet camera with those on the junction box's cover.
4. Fix the camera on the junction box's cover.

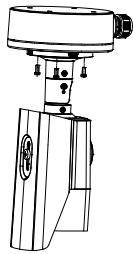


Figure 1-4 Fix the Camera with the Gang Box

5. Attach the junction box's body to the ceiling/wall by aligning the screw holes of the junction box.
6. Secure the junction box's body with the supplied screws on the ceiling/wall.

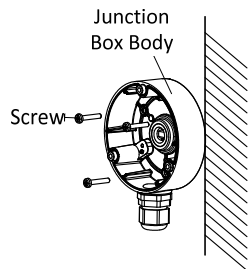


Figure 1-5 Fix the Camera to the Ceiling

7. Route the cables through the cable hole, or the side opening of the junction box.

8. Combine the junction box cover with its body.

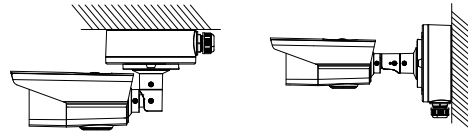


Figure 1-6 Fix the Junction Box Cover back to its Body

9. Refer to step 6 of Chapter 2.1 to complete the installation.

3 Menu Description

Follow the steps below to call the menu.

Note:

The actual display may vary with your camera model.

Steps:

1. Connect the camera with the TVI DVR, and the monitor, as shown in figure 3-1.

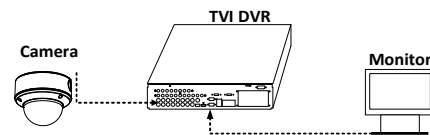
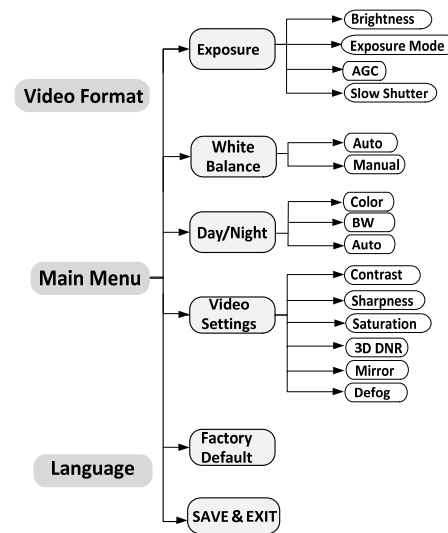


Figure 3-1 Connection

2. Power on the camera, TVI DVR, and the monitor to view the image on the monitor.
3. Click PTZ Control to enter the PTZ Control interface.
4. Call the camera menu by clicking the button, or call the preset No. 95.
5. Click the direction arrow to control the camera.



- (1) Click the up/down direction button to select the item.
- (2) Click Iris + to confirm the selection.
- (3) Click the left/right direction button to adjust the value of the selected item.

3.1 OUTPUT MODE

OUTPUT or NTSC is selectable.

3.2 LANGUAGE

English is selectable.

3.3 SETUP

3.3.1 SCENE

You can select indoor and outdoor scene modes according to the working environments.

3.3.2 LENS

The camera is equipped with a 5-50mm motorized vari-focal lens. Click on Zoom + and Zoom - on the DVR PTZ to zoom in and zoom out. The camera automatically focuses after zooming in/out.

ZOOM SPEED: Move the cursor left/right to adjust the zoom speed.

PRESET: You can set, delete, and call the preset. 1 to 64 presets are configurable.

FOCUS MODE: Manual, Auto, and Trigger modes are selectable. In auto mode, the camera focuses automatically, and in manual mode, you can click on Zoom+ and Zoom- to focus.

LENSINIT: You can reset the lens.

AFLIMIT: 20m, 10m, 6m, 3m, 1.5m, 1m, 30cm, and 10cm are selectable as the min. focus distance limit.

ZOOM VIEW: Enable the zoom view and the zoom ratio displays while lens zooming in/out.

3.3.3 EXPOSURE

BRIGHTNESS: You can set the brightness value from 1 to 14.

EXPOSURE: Manual and IRIS-PRI are selectable.

SHUTTER: AUTO, 1/25, 1/75, 1/100, 1/120...1/3.5k, 1/6k, 1/10k, 1/20k and 1/30 are selectable.

AGC: You can set the AGC value from 0 to 15.

SENSE-UP: You can set the SENSE-UP to OFF or AUTO.

3.3.4 BACKLIGHT

WDR: Set the WDR status as ON or OFF.

DEFOG: You can set the defog function as ON to enable the function. Position, size, and the defog gradation are configurable.

BLC (Backlight Compensation):

- **GAIN:** Set the gain of BLC as High, Middle, or Low.

- **AREA:** Press the up/down/left/right button to define the BLC position and size. Select RET or or AGAIN to go back the BLC menu or re-define the BLC area.

- **Default:** Restore the BLC settings to the default.

HSBLC (High Light Compensation): Select an HSBLC area. Set the DISPLAY status as ON. Press the up/down/left/right button to define the area position and size. Set the HSBLC LEVEL from 0 to 100. Select ALL DAY or Night for the HSBLC mode. Set the BLACK MASK status as ON or OFF.

3.3.5 WHITE BALANCE

MANUAL, ATW (Auto-tracking White Balance), AWC→SET are selectable.

3.3.6 DAY & NIGHT

Color, B/W, and AUTO are selectable for DAY & NIGHT switch. You can enable the IRF intrigger mode.

COLOR: The image is colored in day mode all the time.

B/W: The image is black and white all the time, and the IR LED turns on in low-light conditions.

AUTO: The image switches from color to B/W or from B/W to color automatically according to the light condition. Click on Iris+ to select the submenu. You can select to turn on or turn off the IR LED Light according to the different illuminations and set the Smart IR in this menu.

3.3.7 NR (Noise Reduction)

2D NR: You can set 2D NR status as ON or OFF.

3D NR: Set the Smart NR status as ON and adjust the 3D smart NR sensitivity ranges from 0 to 100. Set the 3D NR LEVEL ranges from 0 to 100. Set the START. AGC level as the threshold to enable AGC, and set the END. AGC level as the threshold to disable AGC.

3.3.8 SPECIAL

CAMERA TITLE: Edit the camera title on this section.

D-EFFECT:

-FREEZE: Set the freeze function as ON or OFF.

-MIRROR: OFF, MIRROR, V-FLIP, and ROTATE are selectable for MIRROR.

-D-ZOOM: Define the zoom ratio of a certain area from 2 to 62.

-NEG.IMAGE: Set the NEG IMAGE as ON or OFF.

MOTION (Motion Detection):

Select a MOTION detection area. Set the DISPLAY status as ON or OFF. Press the up/down/left/right button to define the position and size of the area. Set the SENSITIVITY from 0 to 100. Set the MOTION VIEW status as ON.

PRIVACY (Privacy Zones):

Select a PRIVACY area. Set the DISPLAY status as INV, MOSAIC, COLOR or OFF. Press the up/down/left/right button to define the position and size of the area. Up to 8 areas are configurable. Select a PRIVACY area. Set the DISPLAY status as ON. Press the up/down/left/right button to define the position and size of the area.

DEFECT (Defective Pixel Correction):

LIVE DPC and STATIC DPC are selectable in this section.

HEAT CTRL:

AUTO, ON and OFF are selectable in this section.

3.3.9 ADJUST

SHARPNESS:

Adjust the sharpness from 0 to 15.

MONITOR:

Monitor CRT, and Monitor LCD are selectable.

LSC:

Set the LSC status as ON or OFF.

3.3.10 RESET

Reset all the settings to the default.

3.3.11 EXIT

Press OK to exit the menu.

WWW.GRUNDIG-SECURITY.COM

UG-GD-CT-BP2837T-2019-02-03-V3-DE ©ABETECHS GMBH, DÜSSELDORF, GERMANY