User Guide

GD-CT-BP5837T

EN

grundig-security.com

GRUNDIG

UG-GD-CT-BP5837T-2022-02-01-V5-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 implies, 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.

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:

- High performance CMOS sensor
- IR cut filter with auto switch;
- OSD menu, parameters are configurable;
- Auto white balance;
- SMART IR
- Power over coaxial
- 3-axis adjustment

1.2 Overview

1.2.1 Overview of Camera

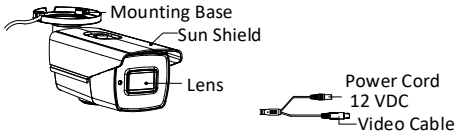

Figure 1-1 Overview of the Camera

2 Installation

Ceiling Mounting/Wall Mounting

Before you start:

The steps of ceiling mounting and wall mounting are similar. The following takes the ceiling mounting as an example to describe the steps.

Steps:

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

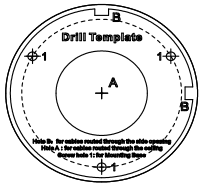

Figure 2-1 Drill Template

Note:

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

4. Fix the camera to the ceiling/wall, and secure them with supplied screws.

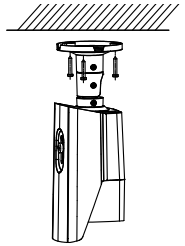

Figure 2-2 Secure the back box

Note:

- The supplied screw package contains self-tapping screws, and expansion bolts.
- For a cement wall/ceiling, expansion bolts are required to fix the camera. For a wooden wall/ceiling, self-tapping screws are required.

5. Connect the corresponding cables, such as 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 camera according to the figure below to get an optimum angle.

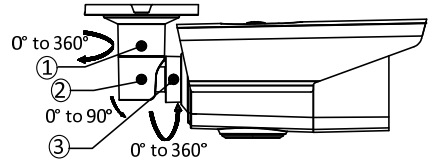

Figure 2-4 3-axis Adjustment

3 Menu Description

Follow the steps below to call the menu.

Steps:

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

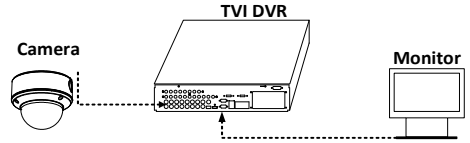

Figure 3-1 Connection

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. The PTZ-protocol must be set to “GRUNDIG-C”.
4. Call the camera menu by clicking the ▤ button, or call the preset No. 95.

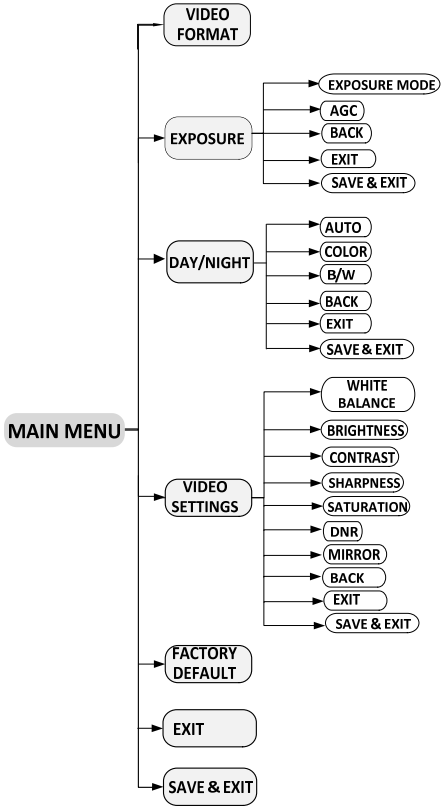

Figure 3-2 Main Menu Overview

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 FORMAT

You can set the video format as 5MP@20fps, 4MP@25fps, 4MP@30fps, 2MP@25fps, and 2MP@30fps.

3.2 EXPOSURE

EXPOSURE MODE

You can set the **EXPOSURE MODE** to **GLOBAL**, **BLC**, or **DWDR**.

- **GLOBAL**

GLOBAL refers to the normal exposure mode which adjusts lighting distribution, variations, and non-standard processing.

- **BLC (Backlight Compensation)**

BLC (Backlight Compensation) compensates light to the object in the front to make it clear, but this may cause over-exposure of the background where the light is strong.

- **DWDR (Digital Wide Dynamic Range)**

The digital wide dynamic range (DWDR) function helps the camera provide clear images even under back light circumstances. When there are both very bright and very dark areas simultaneously in the field of view, DWDR balances the brightness level of the whole image and provides clear images with details.

AGC (Auto Gain Control)

It optimizes the clarity of the image in poor light conditions. The **AGC** level can be set to **HIGH**, **MEDIUM** or **LOW**.

Note:

The noise will be amplified when the **AGC** is on.

3.3 DAY/NIGHT

COLOR, **B&W** (Black White), and **AUTO** are selectable for DAY and NIGHT switches.

COLOR

The image is colorful in day mode all the time.

B&W

The image is black and white all the time. It is recommended turn the IR LIGHT on in poor light conditions.

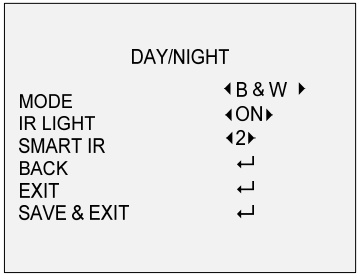

Figure 3-3 B & W

- **IR LIGHT**

You can turn on/off the IR LIGHT to meet the requirements of different circumstances.

- **SMART IR**

The Smart IR function is used to adjust the light to its most suitable intensity, and prevent the image from over exposure. The **SMART IR** value can be adjusted from 1 to 3. The greater the value is, the more obvious effects are.

AUTO

You can turn on/off the **IR LIGHT**, and set the value of **SMART IR** in this menu.

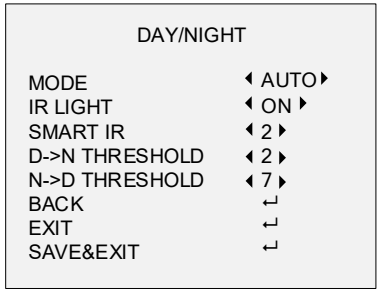

Figure 3-4 DAY/NIGHT

- **IR LIGHT**

You can turn on/off the infrared to meet the requirements of different circumstances.

- **SMART IR**

The Smart IR function is used to adjust the light to its most suitable intensity, and prevent the image from over exposure. The SMART IR value can be adjusted from 0 to 3. The greater the value is, the more obvious effects are.

- **D►N THRESHOLD (Day to Night Threshold)**

Day to Night Threshold is used to control the sensitivity of switching the day mode to the night mode. You can set the value from 1 to 9. The larger the value is, the more sensitive the camera is.

- **N►D THRESHOLD (Night to Day Threshold)**

Night to Day Threshold is used to control the sensitivity of switching the night mode to the day mode. You can set the value from 1 to 9. The larger the value is, the more sensitive the camera is.

3.4 VIDEO SETTINGS

Move the cursor to **VIDEO SETTINGS** and click Iris+ to enter the submenu. **WHITE BALANCE**, **BRIGHTNESS**, **CONTRAST**, **SHARPNESS**, **SATURATION**, **DNR**, and **MIRROR** are adjustable.

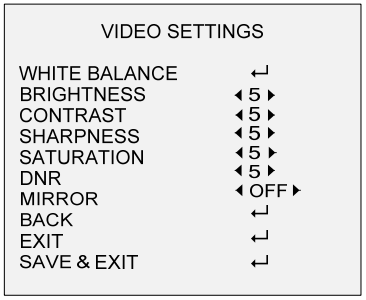

Figure 3-5 VIDEO SETTINGS

WHITE BALANCE

White balance, the white rendition function of the camera, is to adjust the color temperature according to the environment. It can remove

unrealistic color casts in the image. You can set **WHITE BALANCE** mode as **AUTO**, or **MANUAL**.

•AUTO

Under **AUTO** mode, white balance is being adjusted automatically according to the color temperature of the scene illumination.

•MANUAL

You can set the **R-GAIN/B-GAIN** value to adjust the shades of the red/blue color of the image.

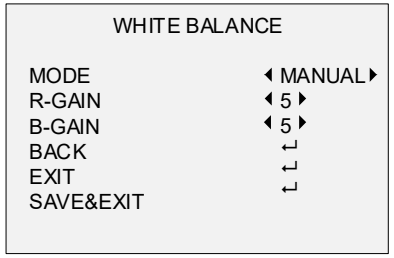

Figure 3-6 MANUAL WHITE BALANCE MODE

BRIGHTNESS

Brightness refers to the brightness of the image. You can set the brightness value from 1 to 9 to darken or brighten the image. The greater the value is, the brighter the image is.

CONTRAST

This feature enhances the difference in color and light between parts of an image. You can set the **CONTRAST** value from 1 to 9.

SHARPNESS

Sharpness determines the amount of detail an imaging system can reproduce. You can set the **SHARPNESS** value from 1 to 9.

SATURATION

Adjust this feature to change the saturation of the color. The value ranges from 1 to 9.

DNR

The DNR function can decrease the noise effect, especially when capturing moving images in poor light conditions and is delivering a more accurate and sharp image. You can set the DNR value from 1 to 9.

MIRROR

OFF, **H**, **V**, and **HV** are selectable for mirror.

OFF: The mirror function is disabled.

H: The image flips 180° horizontally.

V: The image flips 180° vertically.

HV: The image flips 180° both horizontally and vertically.

3.6 FACTORY DEFAULT

Reset all the settings to factory default.

3.7 EXIT

Move the cursor to **EXIT** and click Iris+ to exit the menu.

3.8 SAVE & EXIT

Move the cursor to **SAVE & EXIT** and click Iris+ to save the settings, and exit the menu.

UG-GD-CT-BP5837T-2022-02-01-V5-EN ©ABETECHS GMBH, DÜSSELDORF, GERMANY