



DirectCX Camera

Operation Manual

TC-D5531RX

TC-D5531RXP

TC-D5531WRX

TC-D5531WRXP

TC-D5532RX


TC-D5532WRX

Before reading this manual



This is a basic operation manual for use of an IDIS camera. Users who are using this product for the first time, as well as users with experience using comparable products, must read this operation manual carefully before use and heed to the warnings and precautions contained herein while using the product. Safety warnings and precautions contained in this operation manual are intended to promote proper use of the product and thereby prevent accidents and property damage and must be followed at all times. Once you have read this operation manual, keep it at an easily accessible location for future reference.

- The manufacturer will not be held responsible for any product damage resulting from the use of unauthorized parts and accessories or from the user's failure to comply with the instructions contained in this manual.
- The information in this document is believed to be accurate as of the date of publication even though explanation about some functions may not be incorporated. The manufacturer is not responsible for any problems resulting from the use thereof. The information contained herein is subject to change without notice. Revisions or new editions to this publication may be issued to incorporate such changes.
- It is recommended that first-time users of this camera and individuals who are not familiar with its use seek technical assistance from their retailer regarding product installation and use.
- If you need to disassemble the product for functionality expansion or repair purposes, you must contact your retailer and seek professional assistance.
- Both retailers and users should be aware that this product has been certified as being electromagnetically compatible for commercial use. If you have sold or purchased this product unintentionally, please replace with a consumer version.

Safety Symbols

Symbol	Publication	Description
	IEC60417, No.5031	Direct current

In-Text

Symbol	Type	Description
	Caution	Important information concerning a specific function.
	Note	Useful information concerning a specific function.

Safety Precautions

WARNING

RISK OF ELECTRIC SHOCK

DO NOT OPEN

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

Important Safeguards

1. Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions

The safety and operating instructions should be retained for future reference.

3. Cleaning

Unplug this equipment from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

4. Attachments

Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and/or Moisture

Do not use this equipment near water or in contact with water.

6. Placing and Accessories

Do not place this equipment on an wall or ceiling that is not strong enough to sustain the camera. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.



This equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.

Do not place this equipment in an enclosed space. Sufficient ventilation is required to prevent an increase in ambient temperature which can cause malfunction or the risk of fire.

7. Power Sources

This equipment should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your equipment dealer or local power company.

You may want to install a UPS (Uninterruptible Power Supply) system for safe operation in order to prevent damage caused by an unexpected power stoppage. Any questions concerning UPS, consult your UPS retailer.

This equipment should be remain readily operable.

8. Power Cord

Operator or installer must remove power and TNT connections before handling the equipment.

9. Lightning

For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the equipment due to lightning and power-line surges. If thunder or lightning is common where the equipment is installed, use a surge protection device.

10. Overloading

Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

11. Objects and Liquids

Never push objects of any kind through openings of this equipment as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the equipment.

12. Servicing

Do not attempt to service this equipment yourself. Refer all servicing to qualified service personnel.

13. Damage requiring Service

Unplug this equipment from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- A. When the power-supply cord or the plug has been damaged.
- B. If liquid is spilled, or objects have hit the equipment.
- C. If the equipment has been exposed to rain or water.
- D. If the equipment does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the equipment to its normal operation.
- E. If the equipment has been dropped, or the cabinet damaged.
- F. When the equipment exhibits a distinct change in performance — this indicates a need for service.

14. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

15. Safety Check

Upon completion of any service or repairs to this equipment, ask the service technician to perform safety checks to determine that the equipment is in proper operating condition.

16. Field Installation

This installation should be made by a qualified service person and should conform to all local codes.

17. Tmra

A manufacturer's maximum recommended ambient temperature (Tmra) for the equipment must be specified so that the customer and installer may determine a suitable maximum operating environment for the equipment.

FCC Compliance Statement

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE, IN WHICH CASE USERS WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT THEIR OWN EXPENSE.

WARNING: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT. THIS CLASS OF DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE CAUSING EQUIPMENT REGULATIONS.

WEEE (Waste Electrical & Electronic Equipment)

Correct Disposal of This Product

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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Other company and product names are registered trademarks of their respective owners.

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Part 1 - Menu Setup

Use the OSD button equipped on the I/O device port to set up the OSD menu.

- 1 Press the OSD button to launch the **MENU** screen.



- 2 Use the **UP** or **DOWN** button to move an indicator. The indicator will be displayed in yellow. To select the function, press the OSD button.

- 3 Use the **L** or **R** button to display options of the function. Press the button until the desired value is displayed. To select the value, press the OSD button.

↕ arrow indicates that there are submenus. Press OSD button to display submenus.

- 4 Move the yellow indicator to the **SAVE&EXIT** and press the OSD button to exit.

Dark gray functions are not available depending on the settings.

Lens

- 1 From the **MENU** screen, move the yellow indicator to the **LENS** using the **UP** or **DOWN** button.

- 2 Press the OSD button to select **DC** or **MANUAL**.

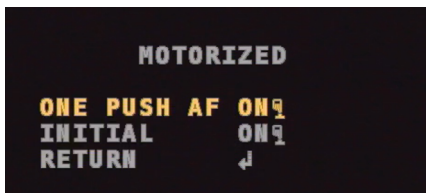
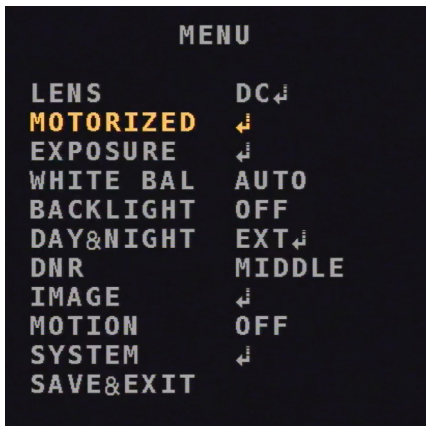


- **DC:** you can select the **OUTDOOR**, **INDOOR**, or **DEBLUR** depending on the camera installation environment.
- **MANUAL:** you can select the **NORMAL** or **DEBLUR** depending on the camera installation environment.

LENS function does not work while the **WDR** mode is being activated.

Motorized

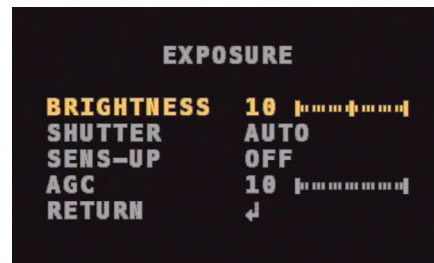
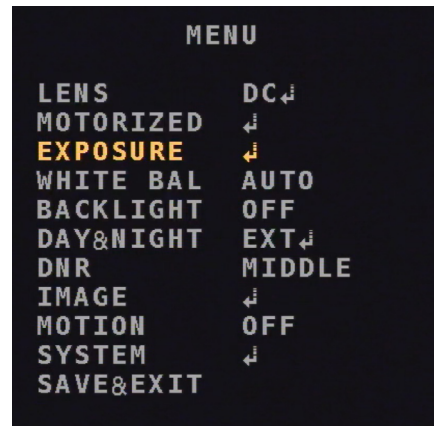
- 1 From the **MENU** screen, move the yellow indicator to the **MOTORIZED** using the **UP** or **DOWN** button.
- 2 Press the OSD button to load the submenus of the **MOTORIZED**.



- **ONE PUSH AF:** Press the OSD button during three seconds, then a message, **PUSHING**, appears and the camera focuses the image.
- **INITIAL:** Press the OSD button during three seconds, then a message, **PUSHING**, appears and the camera moves to x1 with focusing the image.
- **TC-D5531RX/WRX, TC-D5532RX/WRX:** Zoom and focus work simultaneously.
- **TC-D5531RXP/WRXP:** Focus is on after the zoom action.

Exposure Compensation

- 1 From the **MENU** screen, move the yellow indicator to the **EXPOSURE** using the **UP** or **DOWN** button.
- 2 Press the OSD button to load the submenus of the **EXPOSURE**.

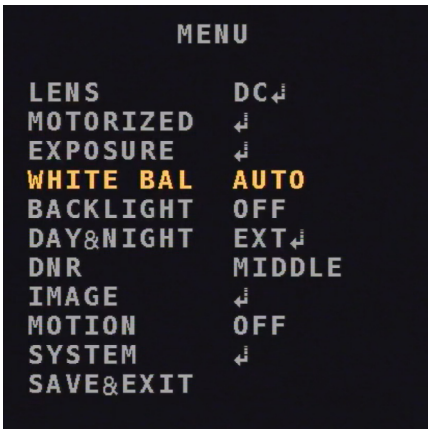


- **BRIGHTNESS:** Adjust the brightness on the screen. (0~20)
- **SHUTTER:** Choose one of the shutter speed. (**AUTO/MANUAL/FLICKER**)
 - The shutter speed value of the **MANUAL** mode is adjustable from 1/30 to 1/30,000.
 - The **WDR MODE** in the **BACK LIGHT** menu does not work while the **MANUAL** or **FLICKER** is used.
- **SENS-UP:** Automatically detects low-light conditions and retains bright screen. (OFF~x32)
 - **SENS-UP** does not work while the **MANUAL** shutter is used.
 - **SENS-UP** does not work while the **WDR MODE** in the **BACK LIGHT** menu is used.
- **AGC:** The higher the AGC value, the brighter the screen. But the image noise will also increase at the same time.

White Balance

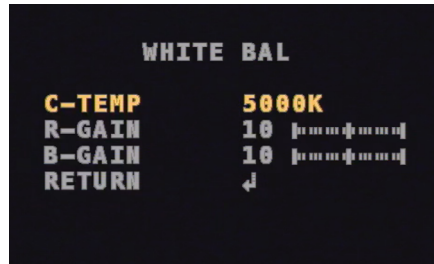
The **WHITE BALANCE** function allows you to change color representation in difficult lighting conditions.

- 1 From the **MENU** screen, move the yellow indicator to the **WHITE BAL** using the **UP** or **DOWN** button.
- 2 Press the **L** or **R** button to select the desired mode and press the OSD button.



- **AUTO:** Automatically changes into the optimal colors depending on the surroundings.
- **AUTOext:** Applies suitable colors at a wider range of color temperatures than **AUTO** mode.
- **AWC-SET:** To set the best color value in the present state of lightning, hold a white object in front of the camera and press the OSD button during three seconds, then a message, **PUSHING**, appears and the setting will be applied. If the surroundings change, **AWC-SET** should be re-adjusted.

- **MANUAL:** From the **C-TEMP**, set appropriate color temperature and then adjust the **R-GAIN** and the **B-GAIN** seeing the colors of subjects.



- **C-TEMP:** Adjust a color temperature. (3000K/5000K/8000K)
- **R-GAIN:** Apply red color. (0~20)
- **B-GAIN:** Apply blue color. (0~20)



Under the following conditions the **WHITE BALANCE** may not work properly. In this case, use the **AUTOext** mode.

- When the surroundings of subjects have very high color temperature. — e.g., clear sky or sunset.
- When the surroundings of subjects is very dark.
- When the camera is directly facing a fluorescent lamp or is installed in a place with a lot of light changes.

Backlight Compensation

The **BACKLIGHT** function allows you to choose **HLC**, **BLC**, **ACE**, and **WDR MODE** for correcting overly-bright backlit sceneries.

1 From the **MENU** screen, move the yellow indicator to the **BACKLIGHT** using the **UP** or **DOWN** button.

2 Press the **L** or **R** button to select the desired mode and press the OSD button.

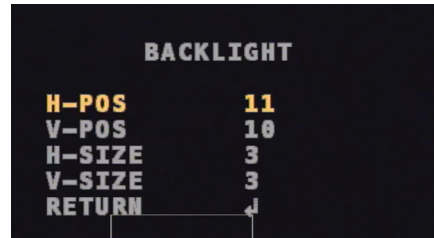


- **OFF:** Backlight function does not work.
- **HLC:** When a car headlight strongly flash at the entrance of a parking lot or a gas station at night, you can block the area of the headlight to identify the license plate.



- **LEVEL:** Adjust the range of overexposure to light.
- **COLOR:** Select a color applied to the area of the overexposure. (BLK/WHT/YEL/CYN/GRN/MAG/RED/BLU)

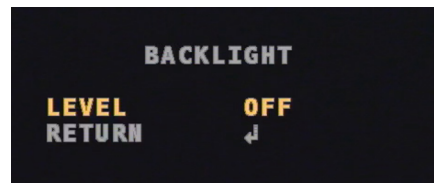
- **BLC:** When a subject is against strong light, **BLC** allows you to see the background of the subject clearly. You can set up the applying area so that the area can be seen obvious.



- **H-POS:** Adjust the horizontal position of the BLC area. (0~26)
- **V-POS:** Adjust the vertical position of the BLC area. (0~32)
- **H-SIZE:** Adjust the horizontal size of the BLC area. (0~26)
- **V-SIZE:** Adjust the vertical size of the BLC area. (0~32)

The maximum of the adjustable values may vary depending on the resolution.

- **ACE:** When there is strong backlight **ACE** allows you to modulate the contrast. (OFF/LOW/MIDDLE/HIGH)

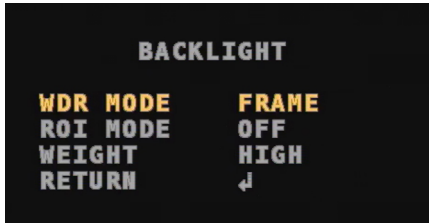


ACE does not work while the **DEFOG** in the **IMAGE** menu.

Part 1 - Menu Setup

- **WDR:** When objects are not identified and seen dark, **WDR** allows you to see the screen vivid and clear.

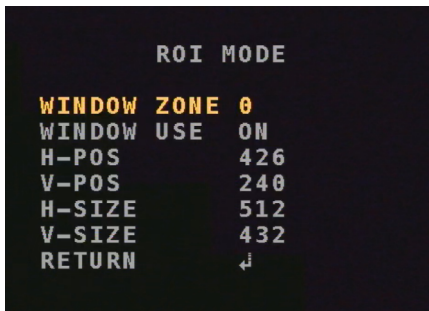
LENS function does not work while the **WDR** mode is being activated.



- **WDR MODE:** Select the mode of WDR. (FRAME/ LINE)
- **ROI MODE:** Lower the brightness of the selected area in order to see objects clearly. The area can be adjusted in the shape of **BOX** or **POLYGON**.

BOX

Select the applying area in the shape of box.

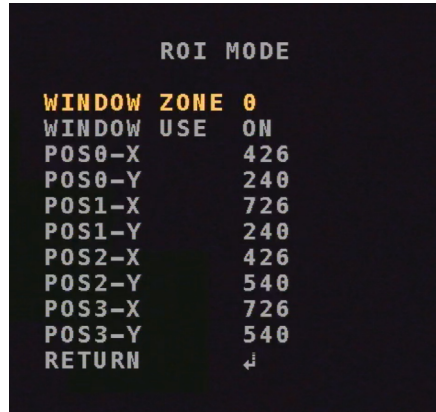


- **WINDOW ZONE:** Select the box. (0~3)
- **WINDOW USE:** Choose the state of the box. (ON/ OFF)
- **H-POS:** Adjust the horizontal start position. (0~2608)
- **V-POS:** Adjust the vertical start position. (0~1960)
- **H-SIZE:** Adjust the horizontal size of the area. (0~2608)
- **V-SIZE:** Adjust the vertical size of the area. (0~1960)

The maximum of the adjustable values may vary depending on the resolution.

POLYGON

Select the applying area in the shape of polygon. The four vertexes can be moved in order to adjust a range.



- **WINDOW ZONE:** Select the polygon. (0~3)
- **WINDOW USE:** Choose the state of the polygon. (ON/ OFF)
- **POS0-X:** Adjust the vertex of the X-coordinate at the top left. (0~2603)
- **POS0-Y:** Adjust the vertex of the Y-coordinate at the top left. (0~1955)
- **POS1-X:** Adjust the vertex of the X-coordinate at the top right. (5~2603)
- **POS1-Y:** Adjust the vertex of the Y-coordinate at the top right. (0~1955)
- **POS2-X:** Adjust the vertex of the X-coordinate at the bottom left. (0~2603)
- **POS2-Y:** Adjust the vertex of the Y-coordinate at the bottom left. (5~1960)
- **POS3-X:** Adjust the vertex of the X-coordinate at the bottom right. (5~2608)
- **POS3-Y:** Adjust the vertex of the Y-coordinate at the bottom right. (5~1960)

The maximum of the adjustable values may vary depending on the resolution.

- **WEIGHT:** Select the weight level. Increasing the level makes the screen dark by reducing overexposure to light. (LOW/MIDDLE/HIGH)

Day&Night Function

The **DAY&NIGHT** function allows you to define screen in COLOR or B&W(black & white).

- 1 From the **MENU** screen, move the yellow indicator to the **DAY&NIGHT** using the **UP** or **DOWN** button.
- 2 Press the **L** or **R** button to select the desired mode and press the OSD button.



- **EXT:** The light sensor automatically switches the COLOR and B&W mode.



- **SMART IR:** Adjust the level to prevent overexposure to (infrared) light. (0~20)
- **D>N THRES:** Set up the standard value during the time when day turns into night. (0~20)
- **N>D THRES:** Set up the standard value during the time when night turns into day. (0~20)
- **DELAY:** Set up the delay time when the screen turns into COLOR or B&W mode. (LOW/MIDDLE/HIGH)

- **COLOR:** Always displays the screen in color.
- **B&W :** Always displays the screen in black and white.



- **SMART IR:** Adjust the level to prevent overexposure to (infrared) light. (0~20)

- The **SMART IR** does not work while the **WDR MODE** in the **BACK LIGHT** menu is used.

Dynamic Noise Reduction

The **DNR**(Dynamic Noise Reduction) function lets you eliminate or reduce the image noise produced in low-light conditions. Equipment of 3DNR technology in this product excellently reduces the noise. Increasing the level enables the camera to reduce noise but it may generate after-image effects.

- 1 From the **MENU** screen, move the yellow indicator to the **DNR** using the **UP** or **DOWN** button.
- 2 Press the **L** or **R** button to select the desired mode and press the OSD button. (OFF/LOW/MIDDLE/HIGH)

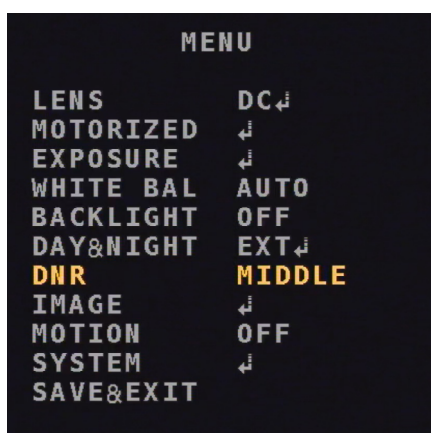
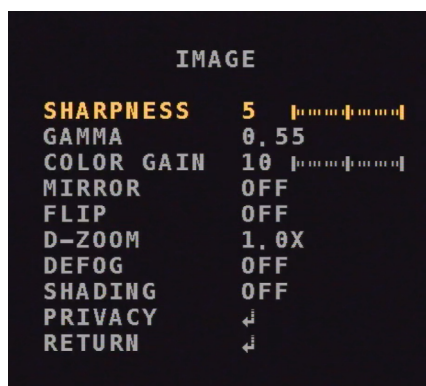
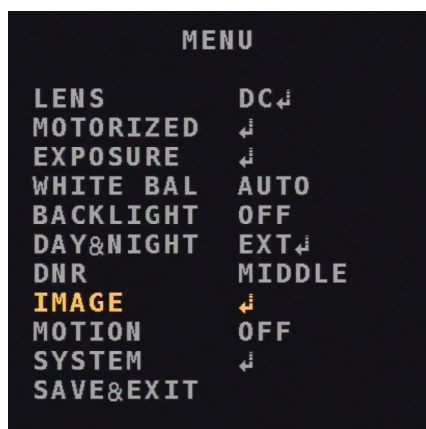


Image Compensation

The **IMAGE** function allows you to optimize the image quality by adjusting various options.

- 1 From the **MENU** screen, move the yellow indicator to the **IMAGE** using the **UP** or **DOWN** button.
- 2 Press the OSD button to display the submenus of the **IMAGE**.



- **SHARPNESS:** Adjust the sharpness level of the image (0~5). Increasing the level makes the screen to be seen sharper.
- **GAMMA:** Adjust the gamma level of the image. (0.45~0.75)

The **GAMMA** does not work while the **WDR MODE** in the **BACK LIGHT** menu is used.

- **COLOR GAIN:** Adjust the color gain value of the image. (0~20)
- **MIRROR:** The image on the screen is inverted horizontally.
- **FLIP:** The image on the screen is inverted vertically.

- **D-ZOOM:** You can enable the camera to perform digital zooming. The magnifying power value is adjustable from 1.0x to 16.0x. Increasing magnifying power value makes the resolution lower.
- **DEFOG:** If the screen is not clear due to fog, yellow dust, and moisture, you can allow the camera to eliminate the distraction. Select **ON** to load the submenus and set up the **MODE** (AUTO/MANUAL) and the **LEVEL** (LOW/MIDDLE/HIGH).

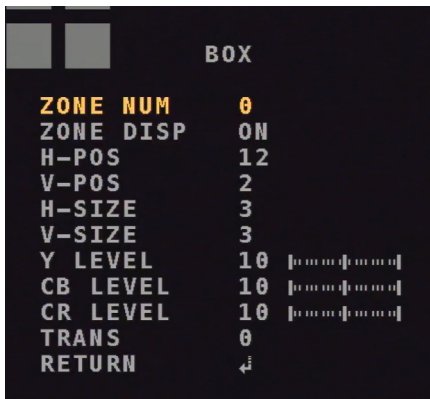
The **DEFOG** does not work while the **WDR MODE** in the **BACK LIGHT** menu is used.

- **SHADING:** If the lens is set to a very wide angle, a contrast effect works. Select **ON** to load the submenus and adjust **WEIGHT** (0~100%). This will have an effect in the middle and on the edge of the screen.
- **PRIVACY:** You can cover a certain area of the screen. The zone can be adjusted in the shape of **BOX** or **POLYGON**.



BOX

Select the applying zone in the shape of box.



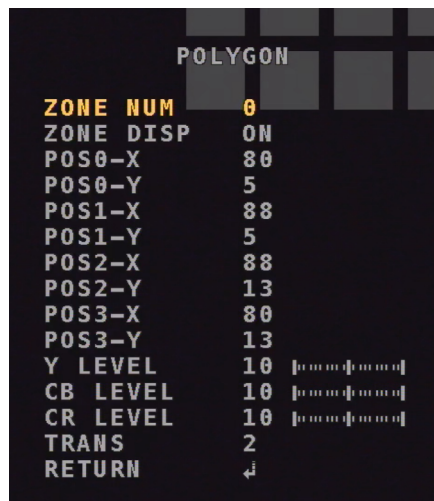
- **ZONE NUM:** Select the box. (0~15)
- **ZONE DISP :** Choose the state of the box. (**ON/OFF**)
- **H-POS:** Adjust the horizontal start position. (0~81)
- **V-POS:** Adjust the vertical start position. (0~61)
- **H-SIZE:** Adjust the horizontal size of the zone. (0~81)
- **V-SIZE:** Adjust the vertical size of the zone. (0~61)
- **Y LEVEL:** Adjust the brightness of the zone. (0~20)

- **CB LEVEL:** Adjust the blue color range of the zone. (0~20)
- **CR LEVEL:** Adjust the red color range of the zone. (0~20)
- **TRANS:** Adjust the transparency of the zone. (0~3)

The maximum of the adjustable values may vary depending on the resolution.

POLYGON

Select the applying zone in the shape of polygon. The four vertexes can be moved in order to adjust a range.



- **ZONE NUM:** Select the polygon. (0~7)
- **ZONE DISP :** Choose the state of the polygon. (**ON/OFF**)
- **POS0-X:** Adjust the vertex of the X-coordinate at the top left. (0~162)
- **POS0-Y:** Adjust the vertex of the Y-coordinate at the top left. (0~122)
- **POS1-X:** Adjust the vertex of the X-coordinate at the top right. (0~162)
- **POS1-Y:** Adjust the vertex of the Y-coordinate at the top right. (0~122)
- **POS2-X:** Adjust the vertex of the X-coordinate at the bottom left. (0~162)
- **POS2-Y:** Adjust the vertex of the Y-coordinate at the bottom left. (0~122)
- **POS3-X:** Adjust the vertex of the X-coordinate at the bottom right. (0~162)
- **POS3-Y:** Adjust the vertex of the Y-coordinate at the bottom right. (0~122)
- **Y LEVEL:** Adjust the brightness of the zone. (0~20)

Part 1 - Menu Setup

- **CB LEVEL:** Adjust the blue color range of the zone. (0~20)
- **CR LEVEL:** Adjust the red color range of the zone. (0~20)
- **TRANS:** Adjust the transparency of the zone. (0~3)

The maximum of the adjustable values may vary depending on the resolution.

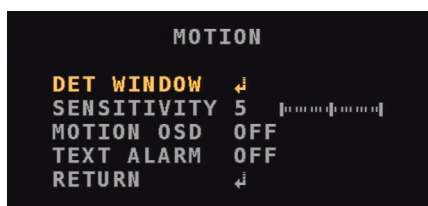
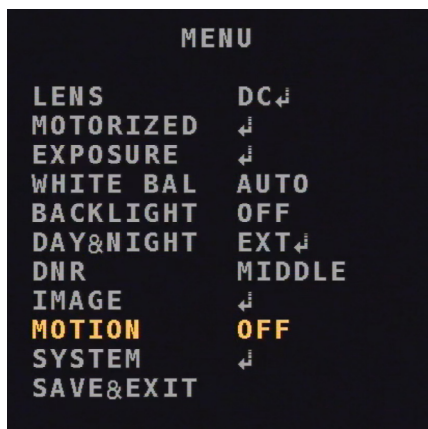
Motion Detection

The **MOTION** function enables the camera to detect moving objects.

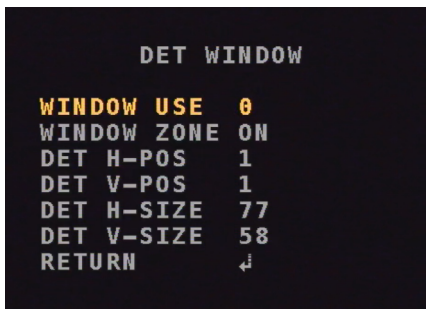
1 From the **MENU** screen, move the yellow indicator to the **MOTION** using the **UP** or **DOWN** button.

2 Press the **L** or **R** button to select **ON** to load submenus and set up details.

Before setting of the motion detection area(**DET WINDOW**), select **ON** at **MOTION OSD**, the submenu of the **MOTION**. If it is set to **OFF**, the motion detection area does not appear.



- **DET WINDOW:** Set up the area of motion detection



- **WINDOW USE:** Select the detection window. (0~3)
- **WINDOW ZONE:** Choose the state of the detection window. (ON/ OFF)
- **DET H-POS:** Adjust the starting point of the window to the left or right. (0~81)
- **DET V-POS:** Adjust the starting point of the window up or down. (0~60)
- **DET H-SIZE:** Adjust the horizontal size of the zone. (0~81)
- **DET V-SIZE:** Adjust the vertical size of the zone. (0~60)

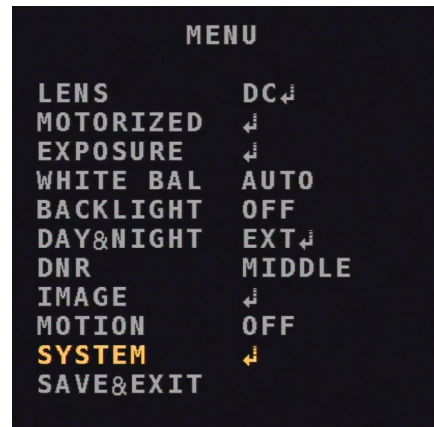
The maximum of the adjustable values may vary depending on the resolution.

- **SENSITIVITY:** Increasing the sensitivity level makes the motion detection more sensitive, but the resolution may be reduced. (0~10)
- **MOTION OSD:** Display the detection window on the screen. (ON/ OFF)
- **TEXT ALARM:** When the camera detects a moving object, texts will be displayed on the screen.(ON/OFF)

System

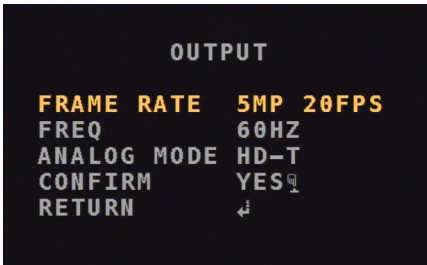
Additional settings can be specified at **SYSTEM**.

- 1 From the **MENU** screen, move the yellow indicator to the **SYSTEM** using the **UP** or **DOWN** button.
- 2 Press the OSD button to display the submenus of the **SYSTEM**.





- **OUTPUT:** Change settings related to the video output.



- **FRAME RATE:** Select a frame that is linked to the resolution. (2MP 30FPS/5MP 12.5FPS/5MP 20FPS/4MP 30FPS)
- **FREQ:** Choose PAL(50HZ) or NTSC(60HZ). (50HZ/60HZ)

TC-D5531RXP/WRXP does not support **PAL(50HZ)**.

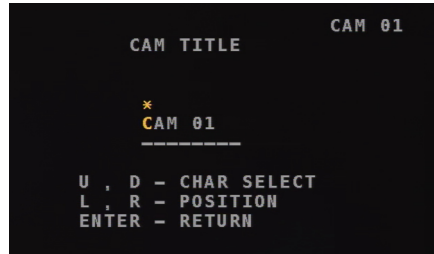
- **ANALOG MODE:** Select the analog output format. (HD-T/HD-A/CVBS)

• The **FRAME RATE** will be inactivated when **CVBS** is selected.

• **TC-D5531RXP/WRXP** does not support **CVBS**.

- **CONFIRM:** Press the OSD button during three seconds, then a message, **PUSHING**, appears with the **OUTPUT** setting applied.
- **IMAGE RANGE:** This is a function that adjusts brightness of the screen and color expression. Select one of the following: **FULL**, **COMP**, and **USER**. (**FULL**=100%/**COMP**=75%). If you select **USER**, you can randomly designate the value at **OFFSET**. The higher the value, the brighter the screen, and also the more blurred the impression of colors. (0~32)
- **COLOR SPACE:** Select the impression of a color on the screen. (**YUV/SD-CbCr/HD-CbCr**)

- **LANGUAGE:** Select one of the languages. (**ENG/CHN/CHN[S]/JPN/KOR**)
- **CAM TITLE:** Display the name of the camera in a certain area of the screen. (**OFF/RIGHT UP/LEFT DOWN**) After selecting the area, press OSD button to name the camera.



- **U, D - CHAR SELECT:** You can choose a letter using the **UP** or **DOWN** button.
- **L, R - POSITION:** You can move to a certain position of the character string.
- **ENTER:** After completing the setting, press the OSD button.
- **UTC SELECT:** Choose UTC Communications Protocol in TVI output.(DIRECTCX / C-P(H))

UTC SELECT ACP protocol only on AHD output.

- **RESET:** You can restore the camera to its factory default settings. Press the OSD button during three seconds to reset the camera.

Save & Exit

Press **SAVE&EXIT** button to save the settings and exit.



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