OWNER'S MANUAL

Product description

RE-TCC5 it is a high performance camera for CCTV applications requiring the highest video quality. E 'based on CCD Sony Ex-View double SCAN, able to combine high-resolution color with great night vision capability and wide dynamic range. This model is not suitable for use with infrared illuminators.

Main features

- CCD Sony Ex-View Wide Dynamic Range 1/3 '' high resolution 520 TVL

- WIDE DYNAMIC RANGE - The WDR feature that is included in the CCD of the camera allows a better yield in condition Backlight where find part image more enlightened than others and optimizes the vision in all non-optimal light conditions.

- Minimum illumination 0.0045 Lux
- Function DSS (Digital Slow Shutter). It allows viewing with minimal lighting, without the use of IR illuminators. This technology is to hold in memory the video frame and condense them into a single frame. The refresh time of the image decreases but increases the resilience with minimum illumination.

- vertical and horizontal Mirror function for the tilting the image in the backward or shooting with camera upside

- OSD (On Screen Display), via programming screen MENU controllable with rear buttons.

- Titler for Stamping number camera

Connections

Video OUT BNC connector for video output	
DC 12V	Jack for 12VDC power supply
Auto Iris	Auto-iris lens connector
LED	Power LED
OSD	Buttons for control of OSD

- BNC video output - Bottom right you connect a cable leading to monitors or management devices typically using RG59 coaxial cable type and the like, and BNC connector.

- Input for auto iris lens - The camera is able to command Direct Drive auto iris lenses.

- DC12V - Connect 12VDC power supply by at least 1A with 5.5 mm plug with a positive central STABILIZED, such as RE-AL4S model

- Control buttons - with the central button to access the camera setup menu, with the other buttons you move between menu items

- Fixing - The camera is provided without bracket which must be purchased separately. The thread for the bracket is available under the camera both above for ceiling mounting

Power to the camera

On the back of the camera there is a connector for the power supply (POWER). Need connect a 12VDC power supply by at least 1A with 5.5 plug mm. center-positive, as the RE-AL4S model. Attention to use STABILIZED feeders that provide 12V in any load condition. The use of a different supply voltage from 12VDC can generate video disorders and in the worst cases damage the camera.

If you carried out a centralized power pay attention to too long power cables, which could introduce excessive voltage drop.

Connect the video

The video output is on the rear of the camera and has a BNC type connector. It must be connected to the monitor or video management device. If the distance to be covered is a few meters you can use any type of cable. But if you go over 10 meters we recommend using the coaxial cable type RG59 or similar which also allows the wiring over a hundred meters.

Attach the lens

These cameras are supplied without lens so that you can equip with the lens more suited to the size and to the ambient brightness. The attack to the target is C / CS type. The goal must be purchased separately and is screwed on the front of the camera. If the lens is of the iris type must be connected to the connector socket to the rear view camera. The camera is capable of controlling autoiris Direct Drive goals. If you need to bring their own to the connector solder these are the PIN to use:

PIN DIRECT	
1	DAMP - 2
	DAMP + 3
	DRIVE + 4
	DRIVE -

Once the lens is screwed, it is necessary to proceed to the focus adjustment. First, you must adjust the focal distance from the CCD by acting on the threaded ring nut placed on the camera body to obtain an acceptable vision. At this point it is possible to refine the vision by turning the focus adjustment of the lens.

Programming Menu

The camera is equipped with a programming menu screen for advanced features. Press the button in the center between the arrows to display the on-screen menu.

MAIN MENU			
INITIAL SET	•		
GENERAL	•	•	
exposal September	•	•	
WHITE BALANCE	•	•	•
BACKLIGHT	•	•	•
MOTION DETECTION	•	•	•
PRIVACY	•	•	•
ELECTRON ZOOM	•	•	•
LENS TYPE	•	•	•
FLICKERLESS	•	•	•
EXIT MENU	•	•	
•			

To move around the menu, use the arrow keys and press the center button to the ENTER function •

•

○ INITIAL SET - resets the factory parameters. Useful if the setting obtained are not satisfactory to restore the situation of departure.

○ GENERAL - general settings. It contains the following functions:

   • CAMERA ID: Set the camera address (from 001-255 / OFF) appearing in overlay

   • BAUD: speed protocol - Not used on this model.

   • NEGATIVE: to see the negative image in different ways (OFF - YC - YC)

   • MIRROR / ROTATE: for the overturning image (OFF - MIRROR - VERT - ROTARY) The image reversal is useful if you must resume behind the observer, or if the camera must operate upside down.

   • SHARPNESS: for setting up sharpness image (OFF - LOW - MIDDLE - HIGH)

   • STILL IMAGE: freezes the screen image (ON - OFF)

   • OPENINGS SUPPRES: This function can increase the yield in locations with poor brightness.

   • DAY / NIGHT: allows you to adjust the brightness threshold at which occurs the switching from color to B / W for night vision. (Adjustable from 1 to 30: with a lower value, switching takes place at a higher brightness) E '

     also OFF available option if you want the camera do not ever walk in B / N and resume to even colors with low light

   • IR CUT: Not used on this model.

   • IRIS INITIAL: Resets the iris control and recalculates the opening based on the current settings ..

○ Exposal set - This option lets you set the aperture mode WDR: Wide Dynamic Range

AE: Electronic shutter AI: Auto iris

For each option are available adjustments necessary. In all Options include SLOW SHUTTER setting to amplify the vision with minimum brightness.

○ WHITE BALANCE - in this section there are the options for white balance, an important feature to make the white color of the image that always in all types of lighting (ATW - PUSH -Outdoor -FLUO

- INDOOR). It 'also available the MANUAL option to adjust the tone of white manually.

○ BACKLIGHT - in this section set the parameters related to the backlight compensation function useful in case of recovery of dark subjects on background is very bright, as it might be, for example, a customer who walks into a store with an external shoulder. The options are: FULL - WIN0 - WIN1

- WIN2 - WIN3 - Win4 - OFF. With the FULL option compensation backlight takes place on all the image. The WIN1..4 options allow you to choose from four predefined areas of the image where you have to find the subject.

○ MOTION DETECT - the camera is used to indicate any changes in video image resulting from an intrusion.

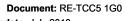   • DETECT TYPE: Choose the detection algorithm to be used for detection movement. (WINDOW, LABEL, BLOCK OFF). WINDOW If you select the area you set manually and you can set up to four windows. Other algorithms work instead of the whole image and allow a different signaling intrusion screen.

   • SENSITIVITY: Sets the sensitivity to changes of image (intrusion). The value ranges from 0 to 60, plus the value is high, the detection is more sensitive. Motion detection of this camera is only meant to highlight the on-screen box that is an ongoing movement to attract the gaze of those who is looking at more than one camera monitor.

○ PRIVACY - This feature allows you to set masking areas to make non-visible areas that you want to exclude from monitoring for the need to protect privacy. You can set up to eight privacy masks.

   • MASK NUMBER: 001 to 008 masks privacy
   • MASK SET: activates or deactivates the privacy masks (ON / OFF). If you set ON, you can manually set the privacy masks, you can even choose the color of the mask (no, gray, white, black, red, orange, yellow, green, blue, purple).

○ ELECTRON ZOOM - this function is usable only if you set the diaphragm (Exposal SET) on AE or on AI. The electronic zoom range from 1.0x to 2.5x.

○ LENS TYPE - in this section must indicate that goal is being used with the camera so that the same can control at best.

   • Fixs: lens fixed lens
   • DC: DC drive auto iris lens
   • VIDEO: Not available on this model FLICKERLESS - is the image compensation

○ that contain small variations invisible to the human eye (neon light, PC screen, TV). You can choose between 3 different settings (fixs, GAIN, WDR) or you can turn off (OFF).

Audio

The RE-TCC5 cameras does not have onboard microphone; If required you can use the external microphone RE-CM2.

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RE-TCC5 Color Wired cameras

Main technical data

	RE-TCC5
Camera Type	hard-wired
Colors / white / black	color day night function
video standards	PAL 2: 1 interlace
CCD Sensor	Sony 1/3 " WDR Double Scan
Number of pixels in the CCD	795 (L) x596 (H)
horizontal Resolution	With 520 TV lines.
Video Signal Process	Digital - DSP
Video Signal Synchronization	internal
Minimum required illumination for shooting	0.0045 Lux (F1.2)
gamma correction	0.45 / 1
Signal / noise ratio (S / N ratio)	Over 50 dB
Automatic Gain Control (AGC)	Yes (programmable level up)
Auto white balance (AWB)	Yes (6 options)
Automatic electronic shutter	Automatic adjustable or fixed from 1/50 ... 1 / 10,000 s.
iris diaphragm	Compatible with DC DRIVE
Compensation against the light (BLC)	Yes - level and adjustable compensation area (4 preconfigured areas)
Day / Night function (color day / night bn)	Yes
infrared lighting compatible	NO
video Output	1V pp composite video 75 Ohms
audio Output	-
built-in ambient microphone	No
the camera power supply	DC 12V
Power consumption	220mA
Power supply 230VAC / 12VDC included	No
Support bracket included	No
Target	Not included - Mount CS
optical Zoom	No
Digital Slow Shutter (DSS) for low brightness	Yes (adjustable Integration of up to 60 frames)
ICR function (removable IR cut filter)	No
MIRROR function for image reversal	Horizontal Vertical
overlay	ID Camera, Motion
MASK function for privacy protection	8 programmable masks
Motion detection	You - Only display screen.
Operating temperature	- 10 ° ... + 50 ° C
External dimensions (mm.)	58 (L) x62 (H) x128 (P)
Weight	370 gr.

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