

Product description



RE-TCC5L is a high performance camera for CCTV applications requiring the highest video quality. E based on Sony CCD 1/3", able to combine high-resolution color with great night vision capability.

Main features

- SONY CCD 1/3" high resolution 600 TVL Minimum illumination 0.0045
- Lux
- function day / night to night vision B / W and compatibility with IR illuminators
- 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.
- WIDE DYNAMIC RANGE - Digital WDR feature allows better yield in backlit shots.
- 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 camera Stamping number

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.

SETUP

- LENS
EXPOSURE
WHITE BAL
DAY / NIGHT
3DNR
SPECIAL
ADJUST
RESET
EXIT

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

LENS - in this section must indicate that goal is being used with the camera so that the same can properly control

- MANUAL: lens fixed lens
DC: DC drive auto iris lens (adjustable brightness)
VIDEO: not available on this model EXPOSURE - General image settings. It

contains the following functions:

- SHUTTER: This option allows you to set how operation of the diaphragm. The shutter is an electronic circuit which decides how often read the charge of pixels of the CCD, the electronic shutter circuit follows environment and accelerates the frequency of reading with increasing brightness, so as to avoid that the pixels being overexposed to the light and the camera gives un'immagine bleached. You can choose between different values including: auto (automatic), 1/50, 1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100000 (pixels

second), FLK (flickerless, which is the compensation of the images that contain variations invisible the human eye as a neon light or an analog display), x256, x128, x64, x32, x16, x8, x4, x2 (the shutter speed)

- BRIGHTNESS: To regular there brightness image (adjustable from 0 to 100)
AGC: is the automatic gain control and serves to improve vision in low light conditions, but tends to create unnatural images because of the effect of amplification. You can choose from several options (off, low, middle, high)

- SENSE UP: DSS - Digital Slow Shutter - used for shooting very dark conditions without using illuminators. The condensate camera more frames summing the brightness is allowing recovery even where

the human eye would not see absolutely nothing. More increases the more integration reduces the number of frames and the image looks jerky and jerky. Setting this car you can choose between different values ranging from x2 to x256.

- BLC: for backlit shots of subjects in areas with bright background such as a window or an external port which eventually only provide the outline of a black figure that stands out against the bright background. The intervention of the BLC serves to bring to light the foreground subject. You can choose from several options: OFF - BLC - HSBL (glare of car headlights useful for night shots of the vehicles).

- D-WDR: Wide Dynamic Range Digital - is used to shoot subjects backlit background bright. Compared to the above mentioned BLC This function allows you to make the dark subject visible

econtemporaneamente the bright background. You can choose between INDOOR for shooting inside, OUTDOOR for remotes, OFF to deactivate the function.

- RETURN: return back to the menu (RET) or out of it completely (END). WHITE BAL - 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. Options: ATW (Auto Tracking) - AWB - AWC set - MANUAL -Indoor - OUTDOOR) are available. In the option MANUAL adjusting the shades of white manually if

the other options preconfigured do not give satisfactory result.

- DAY NIGHT - allows you to choose between several options for night vision. E 'can set the camera so as to constantly provide color image (COLOR), always in B / W or switch to B / W colors automatically according to light). In the latter case it is possible to set the thresholds of passage and a possible delay. In the B / W mode, the camera can be combined with additional infrared illuminators.

- 3DNR - 3D Digital Noise Reduction is a digital video noise reduction function. Thanks to this feature, especially useful with little brightness, it cleans the video signal from the noise and you get a greater uniformity of color.

SPECIAL - contains the following functions:

- CAM TITLE: allows you to give a name to the camera that appears superimposed.

- D-EFFECT: set specific image readouts processed in digital. Available function: FREEZER (blocks the image), MIRROR (mirror function, also allows you to flip the image upside down with the V- function FLIP), D-ZOOM (digital zoom), GAMMA (values from

0.05 to 1.00), NEG IMAGE (displays the image in negative).

- RS485: not used
MOTION: the camera is used to indicate any variations in video image resulting from an intrusion. The AREA SELECT sections, AREA DISPLAY, LEFT / RIGHT WIDTH,

TOP / BOTTOM, HEIGHT, allow you to set the area where you want to detect an intrusion.

The SENSITIVITY function sets the sensitivity to changes of image (intrusion). The value ranges from 0 to 40, plus the value is higher, the detection is sensitive. Motion detection of this camera is designed 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 (masks privacy) that you want to exclude from monitoring for the need to protect privacy. Once activated this function (ON), opens a menu screen that is used to set the size and appearance of privacy masks (SELECT AREA, AREA DISPLAY,

LEFT / RIGHT WIDTH, TOP / BOTTOM, HEIGHT, COLOR RETURN). You can set 8 masking areas.

- SYNC: not used. Available only internal synchronization.
LANGUAGE: allows you to set the menu language. International Option ENGLISH.

- RETURN: return back to the menu (RET) or out of it completely (END). ADJUST - This function can be used to adjust the parameters

- video image. the options I'm SHARPNESS (SHARPNESS: set a value from 0 to 31),

BLUE (BLUE TONE: to set a value from 0 to 100), RED (TONE RED: set a value from 0 to 100), RETURN.

- RESET - to reset the factory settings. Useful if the settings obtained are not satisfactory and to restore the situation of departure.

Audio

The RE-TCC5L camera does not have onboard microphone; If required you can use the external microphone RE-CM2.

Main technical data

	RE-TCC5L
Camera Type	hard-wired
Colors / white / black	color day night function
video standards	PAL 2: 1 interlace
CCD Sensor	Sony 1/3 "
Number of pixels in the CCD	795 (L) x596 (H)
horizontal Resolution	With 600 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 52 dB
Automatic Gain Control (AGC)	Yes (programmable level)
Auto white balance (AWB)	Yes
Automatic electronic shutter	Automatic or fixed adjustable
iris diaphragm	Compatible with DC DRIVE
Compensation against the light (BLC)	Yes (adjustable level)
Day / Night function (color day / night bn)	Yes (adjustable threshold) IRC Infrared Cur-Filter Removable
infrared lighting compatible	850 nm
video Output	1V pp composite video 75 Ohms
audio Output	-
built-in ambient microphone	No
the camera power supply	DC 12V
Power consumption	120mA
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
ICR function (removable IR cut filter)	Yes
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.