

RE-BCC8YK

PRODUCT DESCRIPTION

This camera is made to allow the resumption of license plates of vehicles in slow or fast motion. It can operate in any light condition thanks to

infrared illuminators incorporated. Thanks to a System of High-Light Suppression is not affected by the headlights of the vehicle is that dipped beam.



ASSEMBLY

The cameras are equipped with a mounting bracket for wall built to allow the passage of cables within it.

The bracket is mounted generally in matching output cables. The basis of fixing It has 4 holes for fixing to the wall with dowels. The housing is waterproof and can be installed outdoors without any protection.

The housing is air-conditioned and is equipped with a fan which is activated at above 45 ° and a heater that is activated at below -5 ° C.

POSITIONING

The positioning of the camera it is very important for a good yield of the license plate reading.

The optimal recovery of the plate is carried out at a maximum distance of 30 m. depending on the adjustment of the lens. The first thing to check is therefore that the distance as the crow flies (not walkable on the ground) between the camera and the point where you will find the means does not exceed this distance otherwise the infrared lighting will not be effective.

The second thing to consider is to position the camera so that the light of the headlights is not directly oriented towards the camera, while maintaining at least an angle of 30 ° vertically with respect to lighting of the headlights. The camera will then be placed in detected position with respect to the road surface so as to avoid that the

dot headlights directly against camera.

Satisfied 2 previous points in orienting the camera needs to be done so that the plate remains as long as possible in the field of vision of the camera.

CONNECTIONS

The connections on the output cable from the camera are the following:

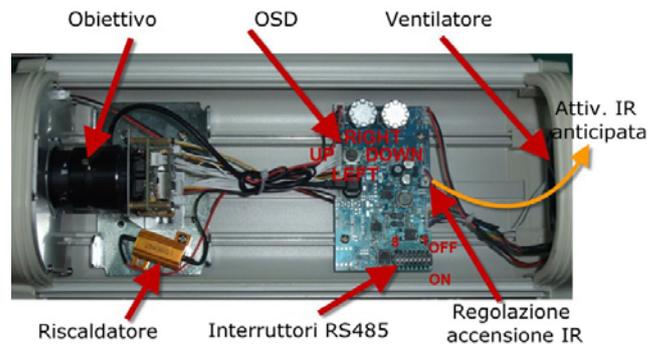
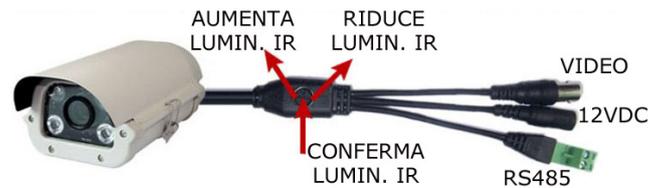
BNC video output - At the BNC female bayonet connecting the video cable that leads then to monitor or management devices typically using RG59 coaxial cable and BNC connector.

Jack DC12V - We must connect a 12VDC power supply stabilized by at least 2,000 mA, such as RE-AL5 model (not included).

The requested plug is the standard 5.5 mm. 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. Beware extension power cables are too long or

small section, that could to introduce excessive fall species voltage at the time IR illuminator ignition.

RS485 input - This connection is optional and allows to connect a RS485 BUS to be able to remotely adjust the IR lighting power.



TARGET

Adjust zoom / focus - The camera mounts an adjustable objective lens from 5 to 50 mm. autoiris DC drive. Once the camera is positioned it is necessary to orient the bracket and appropriately adjust the lens. initially act on the ZOOM ring (TW) and adjust the amplitude of the frame (wide angle / zoom) based on the area to be framed. Remember that in most wide angle corresponds

inevitably a lower image detail.

In general, it is good to frame a narrowest possible width around the location where it will be located in the plate so that the same appears as large as possible in the frame.

Once you defined the field of view act on the FOCUS ring to focus the perfectly framed area. Remember that each lens has its own

depth of field to which it is possible to put in focus in a perfect way only a portion of the space in front of the camera. Concentrate on the most important area where you will find the plate of the vehicle to adjust the focus optimally.

It may be helpful for an optimal adjustment to position a car stops at the exact point where it carries out the reading of the license plate.

The lens adjustment ring nuts can be rotated only after having unscrewed the pawl. Retighten after adjustment in order to avoid unwanted changes.

IR LIGHT

The camera integrates in its interior an infrared illuminator that emanates illumination invisible to the human eye, but visible to the camera. The illuminator turns itself on when it gets dark and the camera switches alone in night vision mode. The illuminator allows ignition

the vision of the license plate until its scope total darkness lighting. In this camera, the illuminator is used for the vision of the automobile license plate and not to allow the night vision of the medium or environment.

If this is request must be the tiling of another camera.

IR threshold adjustment - On the electronic circuit board inside the housing is placed a potentiometer (see figure) to adjust the illuminator ignition threshold.

In most cases the adjustment is not necessary. Intervening only if one realizes that the camera never switches to night mode or switches in untimely manner due to abnormal conditions of ambient brightness.

Turn clockwise for the illuminator will light up later, unscrewing it anticlockwise will be activated soon. In the adjustment keep in mind that the camera reaction occurs with 5 seconds delay to avoid that sudden flashes can make the camera move from night to day. It is therefore necessary to turn a little potentiometer and wait for the reaction of the camera.

IR brightness adjustment - E 'can adjust the brightness of the illuminator to adapt to the distance of the shot. If the plaque is presented too close for example arrangement can reduce the brightness to avoid appearing too bright.

We need to act on the small joystick along the connection cable as shown in the figure. Moving the joystick to the left towards the camera by increasing the lighting, moving it to the right towards the connectors is reduced. Moving the joystick down you enter and exit from the environment

of regulation confirming there programming. Remember to confirm moving the joystick down to prevent the regulation is changed in case of power failure.

To properly adjust the lighting ask in real dark conditions and illuminators turned on by placing a retainer means in the license plate reading point. then act on the regulation in order to optimize the illumination on the plate.

OSD MENU - SPEED 'THE SHUTTER

The camera has an on-screen menu that is controlled via the OSD button on the controller (see figure). In regular operation conditions

it is not necessary to intervene in this menu, so it's highly advisable not to do so to avoid inadvertently change the factory settings. The only intervention that may be required is the adjustment of the shutter speed which is located in the section EXPOSURE SHUTTER.

The factory setting of this parameter and 1/500 and it is possible to keep it unchanged until the speed of the means less than 120 Km / h. If the means traveling at a higher speed is good to use 1/1000 or 1/1500. More it provides for the high speed of the medium to resume more it will take a short amount of electronic shutter time. However most it will shorten the shutter time as it reduces the overall brightness of the video so it is not recommended to exceed 1/1500 sec.

The maximum speed of the means to take can not exceed 180 km / h.

Should you have modified the original camera parameters you would like to restore the factory settings to make the reset the factory settings and then check to set as follows the following values:

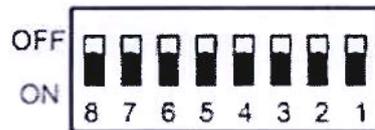
- LENS - DC
- EXPOSURE SHUTTER - 1/500
- BACKLIGHT - OFF
- DAY & NIGHT - EXT
- DPC - OFF
- SPECIAL
- RESET
- EXIT

RS485 FOR REMOTE CONTROL

The camera is equipped with an RS485 port that can be used to remotely control both the camera OSD menu is the brightness of the illuminators. This remote connection is not essential for the operation but it can be useful because it allows to adjust remotely the camera parameters to obtain the best yield strength without having to access the camera itself.

In particular it is possible change the time of the shutter in the OSD and IR lighting power.

And 'possible to send commands with the common protocol Pelco P / D using a control console for our speed dome cameras. On the inner sheet is placed a block with 8 microswitches.



The switches 7 and 8 are used for adjusting the speed of transmission and switch from 1 to 5 are used to assign the address to the camera according to the following tables:

Speed	switch 7	switch 8
2400 bps	OFF	OFF
4800 bps	OFF	ON
9600 bps	ON	OFF
19200 bps	ON	ON

Address	Int. 1	Int.2	Int.3	Int.4	Int.5	
1	OFF	OFF	OFF	OFF	OFF	
2	OFF	OFF	OFF	OFF		ON



3	OFF	OFF OFF		ON OFF	
4	OFF	OFF OFF		OR NOT	
5	OFF	OFF	ON OFF	OFF	
6	OFF	OFF	ON OFF		ON
7	OFF	OFF	ON ON	OFF	
8	OFF	OFF	ON ON	ON	
9	OFF	ON OFF	OFF OFF		
10	OFF	ON OFF	OFF		ON
11	OFF	ON OFF		ON OFF	
12	OFF	ON OFF		OR NOT	
13	OFF	ON ON	OFF OFF		
14	OFF	ON ON	OFF		ON
15	OFF	ON ON	ON OFF		
16	OFF	ON ON	ON ON		
17	ON	OFF OFF	OFF OFF		
18	ON	OFF OFF	OFF		ON
19	ON	OFF OFF		ON OFF	
20	ON	OFF OFF		OR NOT	
21	ON	OFF	ON OFF	OFF	
22	ON	OFF	ON OFF		ON
23	ON	OFF	ON ON	OFF	
24	ON	OFF	ON ON	ON	
25	ON	ON OFF	OFF OFF		
26	ON	ON OFF	OFF		ON
27	ON	ON OFF		ON OFF	
28	ON	ON OFF		OR NOT	
29	ON	ON ON	OFF OFF		
30	ON	ON ON	OFF		ON
31	ON	ON ON	ON OFF		
32	ON	ON ON	ON ON		

The settings of the camera factory there
 RS485 communication are: PELCO
 PROTOCOL D SPEED *2400 bps ADDRESS: 1

The keyboard commands available for Pelco D Protocol are as follows:

CALL (or PREVIEW) + PRESET 200 - With this command gives you access to the remote modification of the IR LED brightness. When you enter the preset 200 act on the joystick by moving it up and down to change the power of the LEDs. Check the result on the monitor. CALL (or PREVIEW) + PRESET 201 - With this command terminates the LED brightness adjustment. IRIS + (or OPEN IRIS) - Pressing the IRIS + button, you have access to the OSD menu of the camera. Once you open the on-screen menu lets you navigate through the options with the joystick on the console and sends the ENTER command by pressing the same button again IRIS +

PROBLEMS AND SOLUTIONS

Image B / W day - lit illuminators, adjust IR activation threshold. If the image is B / N IR off the IR filter is in the wrong position due to mechanical shock, deenergize and restore control camera, then secure it more solidly.

IR LED does not light up at night - Adjust the ignition threshold

Glare on the plate - Avoid lights directly oriented towards the camera (min 30 °)

The plate is moved - Check goal setting. Reduce the shutter speed to 1/1000 or 1/1500

Targa too bright or dark at night - Adjust the power of the LEDs according to the shooting distance

The power of LEDs varies after a reset - Confirm the IR power setting by moving down the mini joystick

The plate is too small and you can not read - Increase the zoom lens to focus the shot.

TECHNICAL FEATURES

Camera Type	for license plate camera
video System	PAL
CCD	1/3 "SONY Super HAD II
Pixel CCD	795x596
Resolution	Colors: 600 lines B / N 650 lines
video Output	1V pp 75 Ohm
SN ratio	50 dB AGC OFF
Minimum illumination IR OFF	0.1 lux
gamma correction	00:45
Mirror Function	Yes
Target	Varifocal 5-50 mm auto iris DC drive
IR LED Illuminator	4 LED array
electronic Shutter	From 1/50 to 1/100000 sec.
Supply	12VDC +/- 10% 1A max absorption.
Operating temperature	- 20 .. + 60 ° C 20% .. 90% RH
Air conditioning	Heater fan at -5 ° C to + 45 ° C
Dimensions (mm.)	420x147x101
bracket	Included

