RW-RW

BCC7L-BCC8L

Camera with integrated digital transmitter

Product description

RadioEye ™ is a closed circuit television system that allows you to see and hear what is happening in an environment without the need for connecting cables. It can be installed in minutes even by inexperienced personnel.

The RW series cameras incorporate a digital transmitter and can be received only with the coupled receiver. The RW series cameras use a brand new digital technology that allows total immunity to interference. The input analog video signal is encoded digitally in the transmitter and sent by radio with FHSS modulation with encrypted encryption to prevent unauthorized reception. For the reception it is necessary to purchase the RE-DRX1 receiver which is delivered already coupled to the camera. In the receiver the signal is again converted into an analogue for

can connected TV, monitor or VCRs.

Product Composition

The product includes:

- camera with transmitter (RE-DTX1) integrated, omnidirectional antenna
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The camera

The RW-BCC cameras are part of the category of protected housing with IR cameras. They are very practical because cameras can also be installed in harsh and outdoor environments without the need for a protective case.

IR Illuminator

The cameras of the series RW-BCC to integrate their an internal illuminator at 850 nm LED illuminator turns itself on when it gets dark. lighting Capacity:

- RW BCC7L IR-60 m-RW BCC8L
- IR 80 m

Audio output

The RW-BCC cameras have no audio microphone, for obvious reasons of protection against ingress of liquids. It is possible, however, to combine an external microphone, such as the RE-CM2 model.

Target

This range of cameras is equipped with variable focal lens AUTO IRIS.

The AUTOIRIS diaphragm adapts itself to light and allows outdoor shooting. The focal point is from 6mm to 50mm variable in order to obtain an optimum angle of view based on the area to be framed.

Put the lens into focus

The latest cameras RW-BCC generation have the advantage of being able to vary FOCAL (zoom) and FOCUS without having to open them. The first thing to do after being linked to video is finding the right visual varying the FOCAL, after that it affects the focus until you get the picture well defined. To do this the bottom of the camera near the mounting bracket there are two controllers that provide the ability to vary FOCAL (zoom) and FIRE as illustrated in FIG.

advanced settings

These cameras allow you to adjust the aperture iris and also have the possibility to vary the intensity and

the intervention threshold of LED lighting. For to do this we must open the Round lid placed next to the fire regulators and zoom, then act on Trimmers using a screwdriver. Inside this cover are also present some signaling LED and VIDEO output additional to which it is possible to connect this cable in the package.

Trimmers:

LEVEL • It serves to adjust the level of the diaphragm of the lens AUTOIRIS depending on the ambient brightness LED ON • It serves to adjust the threshold of IR illuminator ignition CURRENT • It is used to adjust the intensity of

IED Infrared and their illuminating power. A greater intensity corresponds to a higher absorption.

LED (left to right):

PL • POWER LOW when the camera receives an insufficient voltage (<10.8V), the yellow LED lights PN • POWER NORMAL when the camera receives the right 12V +/- 10% voltage turns on the green LED (from

10.8V to 13.2V) PO • POWER OVER when the camera receives a too high voltage with respect to the normal one will illuminate the RED LED. (> 13.2V) The camera in this case goes to protection up to not give any image so as not to be damaged.

VIDEO:

The additional video output is useful for adjusting the lens with a portable monitor. Connect the connector the cable supplied.

Camera attachment

The camera is mounted with the aid of the swivel bracket, already present on it, through 3 dowels. The cable passage occurs inside the bracket thus avoiding to leave exposed cables.

The degree of protection

The camera is enclosed in a protected enclosure IP-67, totally protected against dust, rain and water jets.

The receiver

The RE-DRX1 receiver, is supplied already coupled to the reference camera. It must only be powered on and connected to the video management device (monitor, DVR, etc.)

Installation and wiring

- From the camera bracket protrudes a cable with 2 connectors, power and video output. The video output can be recognized by the typical bayonet BNC connector and is connected to the monitor or the video controller if you want to use the wired camera without using the radio transmission. To power the camera must be connected to the power plug a 12VDC power supply with a 5.5 mm plug with a central positive, at least 2A as the RE-AL5 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.

- In the back of the receiver are present a power input to be connected to the supplied adapter and a miniplug input to which is connected the cable Audio / Video minijack / RCA that it goes connected to the TV, monitor or video monitor.

The receiver connectors are RCA type male (1xVideo-Yellow + 2xAudio stereo). If the device has to be connected BNC connector, very common in the CCTV, you need a RE-BNCRCA1 adapter.

- Screw the antenna to the SMA connector screw. The antenna type is omnidirectional and does not require to be oriented.

First Turn

After connecting the power, the receiver turns on the POWER LED red, then goes out to switch on only when the two devices are paired and ready for the transmission of images and sounds. Camera and receiver are supplied already paired factory so there is no need any operation because

linking between their. This operation recognition, however, requires several seconds, even up to a minute, during which the LED is turned off and can give the impression that the system is idle. patiently wait for the LED to rekindle once carried out the coupling.

If the LED turns on again means that the modules can not communicate with one another, presumably because in places too far away or because of the presence of too many obstacles between antennas.

On the same site you can install up to 10 cameras each with its own RE-DRX1

Pairing button (PAIR)

Camera and receiver communicate with each other in an encrypted way to which they must be coupled together to function properly. However, the **PAIR button on the receiver as a rule should not be used** as the two devices are already delivered factory coupled with each other.

If for reasons of maintenance should be necessary re-pair the devices you need to do the following

- Powering 3-5 meters placing devices.
- Press the PAIR button on the receiver and hold it down until the LED starts flashing. Then release the PAIR button.
- Wait for the completion of pairing without powering down the equipment.
- After the procedure the LED is lit.

The transmission range

The RW series of cameras allow a flow rate in free air of about 150 m. The flow value is given in free air, since the presence of obstacles, such as walls or other reduces the flow rate drastically, but in highly variable manner.

E 'can use directional antennas in replacement of standard antennas, to increase to about twice the flow rate of the system.

Tips

- Locate the camera and receiver in a position as detected possible.
- Position the camera so that the imaginary line joining the two antennas there are less obstacles as possible.

In particular, try to avoid the presence of obstacles very close to the transmitter.

- Avoid the interposition of metal obstacles (eg. Metal gates etc.) as highly shielding.

Main technical data Camera

	RW-BCC7L	RW-BCC8L
Camera Type	hard-wired	hard-wired
Color or black / white	colors	colors
video standards	NTSC / PAL	NTSC / PAL
Type CCD sensor	Sony SuperHAD TM	Sony SuperHAD TM
CCD Size	1/3 "	1/3 "
Number of pixels in the CCD	795 (L) x596 (H)	795 (L) x596 (H)
horizontal Resolution	520 TV lines	520 TV lines
Video Signal Process	Digital - DSP	Digital - DSP
Video Signal Synchronization	internal	internal
gamma correction	0.45	0.45
Target	6mm - 50mm	6mm - 50mm
Signal / noise ratio (S / N ratio)	Over 50 dB	Over 50 dB
Automatic Gain Control (AGC)	Yes	Yes
Auto white balance (AWB)	Yes	Yes
Automatic electronic shutter	1/50 ... 1 / 100,000 sec.	1/50 ... 1 / 100,000 sec.
Day / Night function (color day / night IR bn)	Yes (color / bw)	Yes (color / bw)
with built-in infrared illuminator	It - 80 LEDs	It - 190 LED
wavelength illuminator Length	850nm	850nm
Automatic Switching IR illuminator	Yes	Yes
video Output	1V pp composite video 75 Ohms	1V pp composite video 75 Ohms
built-in ambient microphone	No	No
the camera power supply	DC 12V	DC 12V
Absorption of the camera	650mA (MAX)	1350mA (MAX)
Power supply 230VAC / 12VDC included	No	No
Support bracket included	Yes	Yes
Operating temperature	- 30 ° ... + 60 ° C	- 30 ° ... + 60 ° C

Main technical data transmitter

Antenna	3dB omni
antenna Attack	type SMA
Frequency	2403 MHz - 2478 MHz
Modulation	16QAM / QPSK / BPSK
Bit rate video	12 Mbps
Transmission power	100 mW
video Resolution	768x576 25 f / sec

Main technical data receiver

Supply	5VDC (adapter included)
Max consumption.	1.9W
video Output	1 Vp-p 75 Ohm
audio Output	1 Vp-p 600 Ohm stereo
Connectors	3xRCA male
Antenna	3dB omni
antenna Attack	type SMA
Frequency	2403 MHz - 2478 MHz
dimensions	76x73x24 mm.
Temperature	- 10 ° ... + 50 ° C
Weight	82 gr.

CE