![DSE logo]

OWNER'S MANUAL

Product description

RE-BCC5M is a high performance camera for applications CCTV that require the highest quality video and a suitable sealed container both inside and outside.

The camera is equipped with infrared illuminator for viewing in the dark of the reach of

30 m. and integrated optics with variable focal length from 4 to 9 mm. adjustable from the outside.

Main features

- SONY Super HAD CCD high resolution 520 TVL varifocal lens 4 to 9 mm.
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- Focal adjustable dall'esterne fire without opening the container
-
- Infrared Illuminator 30 m. (36 LEDs 850 nm) Day / Night function for night vision in
- B / N Enclosure IP66
-
- Sunshield inner side with an opaque anti-reflective wall bracket integrated with internal
- cable routing Lens double anti-reflective glass Power 12VDC
-
-
- OSD (On Screen Display), via programming screen MENU controllable with rear buttons.
-
- Auto Iris / Manual
- BLC backlight compensation area with selectable AGC Automatic dl adjustable gain
- adjustment AWB white balance ATW, AWB, Fixed, Manual
-
-
- Camera name superimposed MIRROR function for image inversion zone
- programmable privacy
-

Connections and controls

- **fixing** - The camera is provided with a bracket

integrated for wall mounting, specially designed to allow the passage of cables inside it and protect them from tampering. The camera is mounted generally in the output cables so as not to leave exposed wires. From camera out the BNC video connector and power connector.

- **BNC video output** -At bayonet BNC connector

female connecting the video cable which then leads to monitor or management devices typically via RG59 type coaxial cable and a BNC connector.

- **pin DC12V** - We must connect a 12VDC power supply stabilized by at least 500 mA, as the RE-AL4S model. The requested plug is the standard 5.5 mm. The direct current power supply allows you to install the cameras without additional protection (request if the power supply is 220V), as well as to power the camera with a battery in case of blackouts. 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. Attention to extension cables power too long or small section, which could introduce an excessive fall of species voltage at power IR illuminator.

- **Adjusting Focus Zoom** - The

of the camera rear endcap you can be unscrewed to access the rear controls. To unscrew the cap act with counterclockwise force. They are first of all present

2 screws that

allow you to adjust the lens focal length and the focus without having to open the casing of the camera.

- **OSD control buttons** - 5 rear buttons allow you to activate and control the setup menu that appears on the screen by pressing the center SET button

IR Illuminator

The RE-BCC5M cameras incorporate within them an illuminator to 36 LEDs at 850 nm that emanates illumination invisible to the human eye, but visible to the camera. The illuminator turns on by itself at nightfall darkness. The ignition illuminator allows the vision in B / N in absolute darkness up to about 30 m away.

Camera Configuration

Pressing the back SET button to access the setup menu that consists of several items that can to be selected with the keys UP / DOWN / LEFT / RIGHT with the middle button that acts within the menu as ENTER. The first thing to **set to English**

going down to the line 8 and pressing the RIGHT button repeatedly.

We are described below one by one all the programming entries.

Lens

In this section there are the options for controlling the lens iris. The type of lens operation will directly affect the reactivity of the camera to variations in brightness. E 'can set:

- MANUAL - Fixed iris VIDEO - Video Auto Iris
- DC drive - Auto iris DC drive
-

CAUTION. By using the automatic iris diaphragm (VIDEO or DC) it will not be possible to set the automatic electronic iris (see following parameter)

Shutter - Electronic Iris

In this section there are the options relating to the camera electronic iris control. E 'can set:

- AUTO - Automatic electronic shutter. The camera will compensate for variations in luminance electronically in an automatic way. E 'can set the level of image brightness. The automatic shutter can only be used with type Manual LENS option.

- FLK - Fixed electronic shutter to 1/120 (PAL) FIXED - Selectable Fixed iris. E 'can set 1/50,
- 1/120, 1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100000.

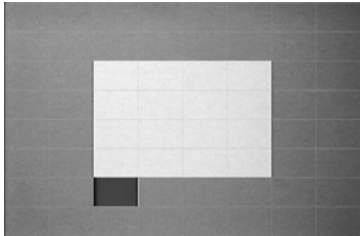- MANUAL - Aperture set as desired. Use the Left / Right buttons to set the value

BLC - Backlight Compensation

In this section you set the parameters related to the backlight compensation (BLC) function useful in case of recovery of dark subjects on background is very bright, as it might be, for example, a customer who enters

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a shop behind a very bright outside. By setting the parameter to ON skills there backlight compensation. E 'can choose:

🔴 BLC AREA - Here it is possible to set the image area on which it will operate the backlight compensation, ie the area where the image will be present to highlight the subject compared to the background. The camera, regardless of the brightness of the background will try to optimize the viewing area selected. The yield accurate adjustment by the presence of 64 selectable panes. The BLC area adjustment lets you use the backlight compensation even with subjects that are not found in the middle of the recovery. To set the BLC area, select the box and set it to yellow (ON) or orange (OFF). The selected area will be opaque and should be done so that it coincides with the area where it will appear dark subject against bright background. Once set to the desired area and press ENTER (center button) for about 2 seconds and select: EXIT to exit or ALL CLEAR to cancel all panels, or ALL SET to enable all panes.

🔴 BLC RATIO - Sets the level of compensation. The higher the level the more it will improve the vision of the subject and penalized the vision of the bright background.

After the selection RETURN to return to the main menu.

AGC - Automatic Gain Control

In this section there are the options related to the automatic gain control (AGC), which optimizes the vision in low light. Once you set the parameter to ON you can set the automatic gain control. Most AGC will mean more brightness in dim light, but also more noise in the image due to amplification of the signal.
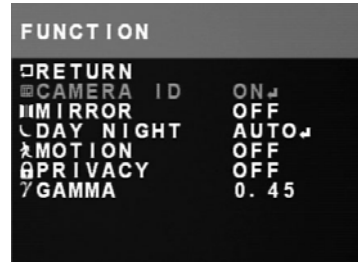
White Balance - White Balance

The white balance is an important function to make the white color of the image always such in any type of lighting. Are available the following options:

🔴 ATW - Selecting ATW you enable automatic balancing AUTO TRACKING, recommended in most applications, which by monitoring the continuously balancing provides the best fidelity possible white.

🔴 AWB - Selecting AWB instead enables the conventional automatic balancing that against offers for a reaction rate higher than the change of the type of lighting.

🔴 FIXED - E 'can selzionare 4 fixed balancing mode MODE 1 ... 4

🔴 MANUAL - With the manual white balance setting can be changed to the desired levels of red and blue image from 0 to 255.

Function - Special Functions

Selecting "functions" to access the following submenu:

The following functions are available:

🔴 CAMERA ID - this enabled, you can type a description of max. 15 characters that will be reported in the image-imprinted camera. Choose the ENTER symbol to confirm. Choose the C symbol to delete all letters. IS' You can also choose the position of the overlay. Select RETURN to exit.

🔴 MIRROR - You can flip the image horizontally in the case of retrospective shooting.

🔴 DAY NIGHT - This section sets the operation of a day / night camera features. E 'can set the option COLOR (if color camera), B / W (always B / W camera with selectable BURST option) or AUTO. In the option AUTO the camera will resume daytime color and B / N with insufficient light. E 'can set the activation time for the B / W (Start / End) and the response delay (DELAY)

🔴 MOTION DETECTION - The camera is used to indicate any variations of the image resulting from an intrusion. Upon the occurrence of the intrusion will appear a signal in the upper right of the image. Selecting the Motion option to ON enables the detection of the movement. You can set the detection area (AREA) in the same manner already seen for the BLC, there the detection sensitivity (MOTION TH.) as well as the display of the detection window in case of intrusion (MOTION TRACE). During the alarm motion detection can not be combined other alarm actions over a display to screen described above.

Privacy - masking sensitive areas

This section serves to mask viewing zones, usually to protect privacy. E 'can set 4 mask areas by selecting the size and color.

Range

E 'can manually set the correction level range from 0.05 to 1

Adjust - Image Adjustment

Here you have the image adjustment options

🔴 CONTRAST - Contrast Adjustment SHARPNESS - Adjusting

🔴 CB-GAIN definition - color adjustment BLUE CR-GAIN - color

🔴 adjustment RED

🔴

Language

Available only in English menu to be selected by repeatedly pressing the RIGHT button on line 8 of the on-screen menu.

Reset

Restores the camera's factory settings

Exit

To exit and confirm your settings.

Main technical data

	RE-BCC5M
Camera Type	hard-wired
Colors / white / black	color day night function
video standards	PAL 2: 1 interlace
Type CCD sensor	Sony SuperHAD TM
CCD Size	1/3 "
Number of pixels in the CCD	752 (L) x582 (H)
horizontal Resolution	With 520 TV lines.
Video Signal Process	Digital - DSP
Video Signal Synchronization	internal
Minimum required illumination for shooting	0 Lux (IR ON)
gamma correction	Manual adjustment from 0.05 / 1
Signal / noise ratio (S / N ratio)	Over 48 dB
Automatic Gain Control (AGC)	Yes (programmable level)
Auto white balance (AWB)	Yes (ATW, AWB, Manual)
Automatic electronic shutter	Automatic adjustable or fixed from 1/50 ... 1 / 10,000 s.
iris diaphragm	Yes
Compensation against the light (BLC)	Yes - level and adjustable compensation area
Day / Night function (color day / night bn)	Yes (programmable level of intervention and delay)
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	Max 400mA
Power supply 230VAC / 12VDC included	No
Target	Built manually variable focal 4 .. 9 mm
Built-in IR illuminator	36 LEDs. Range about 30 m.
Turning IR illuminator	Automatic under 10 lux CDS
MIRROR function for image reversal	Horizontal Vertical
overlay	Camera Title 15 characters
MASK function for privacy protection	4 programmable masks
Motion detection	You - Only display screen.
Degree of protection	IP66
Container	Tin Aluminum
Support bracket included	Si with cables passing inside
adjustable Sunshade	Yes
Double glazing	- for glare-free lighting the LED
Operating temperature	- 10 ° ... + 50 ° C
External dimensions (mm.)	192 (L) x100 (H) x95 (P)
Weight	1200 g.

CE