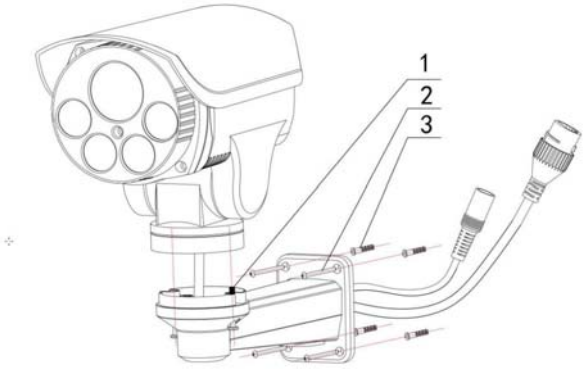
SD-E4HDU

Product description

The camera you have purchased is a very innovative product. Yes
It is a camera
Similar in concept to a fixed camera, but capable of being panned in all directions and equipped with zoom, also remotely controllable.

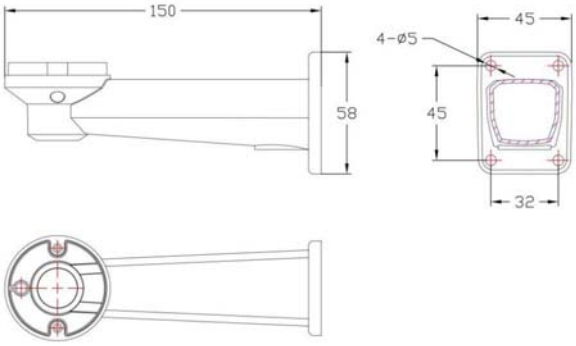
Connections and Mounting



- **Bracket Mounting** - The first thing to

fasten the bracket supplied separately to the camera body with the two screws provided (1). The cables pass through the bracket and protruding rear.
The camera
It mounts generally in the output cables so as not to leave exposed wires

The cameras are to be fixed to the wall and are not suitable for ceiling mounting. Fix the wall bracket with the bolts (3)



- **Connections**

The camera is equipped with different connectors: a female BNC for the video, a DC power outlet and two cables (ORANGE / YELLOW) for remote control (RS485).

- **BNC video output -** At the BNC female bayonet connecting the video cable that leads then to monitor or DVR typically using RG59 coaxial cable and BNC connector. You can also use twisted pair cables with balun converters.

- **Jack DC12V -** At the power plug 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.

- **Telemetry.** It is of the serial connection that leads the movement commands to the camera. The SD series cameras use an RS485 serial line (RS485 BUS) which is formed with a pair of twisted wires.

ORANGE: RS485 A
YELLOW: RS485B
E 'essential that the two cables are wound between them and non-parallel. In principle the RS485 serial line can extend up to 1200 meters in length and along it are connected in cascade devices. The section of the cables closely depends on the length of the connection: for medium distances is sufficient a section of 0.5 mm, while if it is necessary to reach considerable distances (max. 1200 m.) Should be used upper sections of 1 mm or even 2.5 mm.

In carrying out the wiring
recommended, but not necessary to use shielded cable. The network CAT5 cable containing four twisted pairs is great for the realization of a RS485 BUS. A serial BUS part of rule from a control member which can be a SD-CON3D console or a DVR. The cameras must be connected in cascade ie entering and exiting from the clamps 2 and RS485A RS485B. It 'important not to confuse the two cables (AB) during the connection of the equipment.

The order in which the devices are connected to the BUS has no relevance. Each device will be identified by its own unique address that will properly address the instructions.

It's possible
connected to the same BUS up to 256 cameras. The console, do not require any addressing, while for the cameras is necessary to set a different address for each camera, as described below.

Housing connections - The video connections and power supply must be protected from the weather and housed in special electrical containers. For this reason, the cameras are equipped with an integrated cable about 50 cm

length to reach the box which goes arranged nearby.

IR Illuminator

The cameras incorporate within them 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 ignition allows the vision in B / N in absolute darkness until its scope lighting

Programming Menu OSD

These cameras allow you to configure various display options through an on-screen display (OSD) and are equipped with UTC chip.

To control the on-screen menus need a remote control RE-by UTC2 ordered separately.
Buying a RE-UTC2 remote control is not essential, but it is useful to be able to intervene in the camera module settings.

OSD Options

For explanations of the various OSD options refer to the separate instructions.

AHD Support

These cameras support AHD technology and are able to run either normal analog DVR with both AHD DVR latest generation with which allow you to reach the HD720P resolution 1280x720.

AHD / CVBS Switching

These cameras AHD AHD 720P are always supplied in PAL mode, but can be switched into traditional analogue CVBS mode if you need to connect to old or DVR directly to a TV.

The switching is performed by invoking appropriate system preset as described later.

Note that a camera AHD 720P or 1080P, switched in analog CVBS provide an analog CVBS standard resolution (about 1000 TVL) and not more than its AHD resolution.

The switching CVBS / AHD can not be performed by remote control UTC

Control of movement and zoom

The cameras receive commands through the RS485 bus described in the chapter on connections.
The protocol supported is the PELCO P / D standard for which verified that the control member is able to support it. The protocol is automatically learned from the camera is not to be set. The speed of the protocol and the camera address instead should be personalized with the below listed system presets.

In an RS485 bus it is important that all the cameras and all the command organs share the same communication speed and that each camera has different address.

The camera default setting is as follows:

PROTOCOL: PELCO P / D in self-learning SPEED ': 2400 baud ADDRESS: 1

The modification of these parameters is only possible via preset sending for which it is necessary, at least initially set the control member in a consistent manner and verify that you can control the camera in its movements.

main Settings

address Setting

September 85 + 60 + CALL CALL XX (address) To set a new address set the presets 85, immediately after recall preset 60, then call the preset with the address number to be assigned.
Ex. 3 to set the address: 85 Set preset, call preset 60 and recall presets 3

Setting the baud rate

September 85 + 61 + CALL CALL X
set the speed of the protocol (bit rate) set the presets 85, immediately after recall preset

61, then a preset among these: 1 - Set Bit Rate
2400 2 - Set bit rate 4800 3 - Set bit rate 9600

Ex. To set speed 9600: Set preset 85, preset 61 call and recall presets 3

Video Output Settings

September 85 + 62 + CALL CALL X
To set the video output of the camera to set the preset 85, immediately after recall preset 62, and a preset among them: 1 - AHD PAL 2 - AHD 3 NTSC - PAL CVBS 4 - CVBS NTSC

Ex. To set PAL CVBS: Set preset 85, preset 62 call and recall presets 3 CAUTION - Make sure that the video format is supported by the DVR before do this commutation

Preset

The camera can store predefined positions denominated PRESET recallable at pleasure. To set a preset and recall a preset follow the instructions of the control unit (DVR / Console)

System Preset

The camera can manage 256 presets, but only 220 are available to the user because the preset 65-100 are reserved for special functions which we illustrate in the following table:

FUNCTION	PRESET	FURTHER INFORMATION
Set address	**September 85 CALL 60 CALL N**	N = address of the camera on the RS485 BUS (1..256)
Set baud rate	**SET 85 61 CALL CALL N**	2400 baud N = 1 N = 2 N = 3 4800 baud 9600 baud
Set video output	**September 85 CALL 62 CALL N**	N = 1 N = 2 AHD AHD PAL NTSC PAL CVBS N = 3 N = 4 CVBS NTSC Check that the video management device (DVR) supports the new format before performing the switching because otherwise you will not be able to control the camera. Be careful in this change.
Home Function	**September 85 CALL 75 CALL N**	It sets the automatic function in which the camera automatically returns after a certain time of inactivity. N = 1 N = No HOME position Preset 1 2 N = 3 N = 4 1 Autoscan Tour 1 N = 5 Pattern 1
Tempo Home	**September 85 CALL 76 CALL N**	It sets the idle time after which the camera returns to the home set above function. N = 1..60 minutes
IR illuminators Control	**September 85 CALL 70 CALL N**	It sets the power mode of IR illuminators. N = 1 Automatic ignition N = 2 N = 3 Always on Always off
illuminators with zoom power to a minimum (close)	**September 85 CALL 71 CALL N**	N = 1..10
illuminators Power Zoom maximum (away)	**SET 85 72 CALL CALL N**	N = 1..10
Ignition Sensitivity IR illuminators	**September 85 CALL 73 CALL N**	Defines the threshold power of the illuminators N = 1..10 (a lower value corresponds ignition with less brightness)
left scan limit	**September 92**	As linear SCAN defines the horizontal continuous movement of the camera between two end points with the same level of TILT. With this preset you set the left limit of the scan
Right scan limit	**September 93**	With this preset you set the right limit of scan
speed scan	**September 85 CALL 77 CALL N**	It defines the speed of horizontal scanning N = 1..50
Start scan	**CALL 99**	With this preset starts the horizontal scan
Stop scan	**CALL 96**	With this preset stops the horizontal scanning
Preset Home Tour	**September 85 CALL 50 CALL N**	As TOUR or CRUISE means the sequential display of more preset with a certain residence time on each one. Of the camera factory performs the tour between preset from 1 to 10 with a residence time on each preset to 10 seconds. Here you can set a different preset start from preset 1 N = Preset start tour
Preset final tour	**SET 85 51 CALL CALL N**	Here you can set the preset end of the tour (Factory 10) N = Preset end tour
Residence time of the tour	**September 85 CALL 52 CALL N**	Here you can set the dwell time of each preset during the tour (10 seconds Factory) N = 1..255 seconds
Start tour	**CALL 98**	With this preset you start the tour

Stop tour	**CALL 96**	With this preset stops the tour
Start recording Pattern	**September 86**	A PATTERN is a sequence of movements prestored callable at any time. With this command, it starts the recording of the sequence. E 'can then record the sequence of movements and zoom at will.
Recording End Pattern **September 96**		With this command, it terminates the recording of the pattern sequence
Start pattern	**CALL 97**	With this preset you start the pattern
Stop pattern	**CALL 96**	With this preset stops the pattern
Opens menu Camera Module	**CALL 95**	With this preset you access the OSD setup menu of the camera. Not all control devices, however, allow you to move in this menu, we recommend that you use the RE-UTC2 remote control to make changes.

Main technical data

www.dseitalia.it/dati_speed-dome.htm