SERIES SD-Dxx

Cameras

High Speed Dome AHD / analog

INTRODUCTION

The cameras speed domes I'm cameras Fully remote controllable. They allow an operator to rotate the camera in all directions and zoom in pleasure on the scenes of most interest.

Can also perform movements automatic pre-programmed according to specific monitoring requirements.

What is PTZ

The cameras controlled remotely are also defined PTZ, which stands for PAN / TILT / ZOOM. PAN is the movement in horizontal, TILT movement in vertical and ZOOM control of the lens focal length.

Controlling the speed dome

The speed-dome cameras are controlled with special console of command or through the DSE digital video recorders. Digital video recorders also allow control of remote cameras via network or Internet, using both PC and smart phone or tablet. The command of the cameras is carried out on twisted pair with Pelco D Protocol today standard consolidated in the sector.

MAIN SPECIFICATIONS

www.dseitalia.it/dati_speed-dome.htm

INSTALLATION OF CAMERA

The cameras SD-D series are packed carefully to prevent damage during transport. First, you must check the received material. The speed dome camera that you have purchased is protected by packing items that must be carefully removed before using.

Cable connections

From a Speed Dome SD-D series camera protrudes a cable fitted with the following connections:

- **1** 12VDC power supply with 5.5 mm plug.
- **video Output** BNC female
- **2 Cables** BUS **RS485** GREEN (A +) / YELLOW (B-)

To structure a system of Speed Dome cameras must prepare three types of wiring:

- **Supply.** IS' can feed there camera locally with a adapter 220VAC / 12VDC by at least 3A (not supplied) or prepare a 12VDC network with cables with a suitable section so as to avoid excessive voltage drop.

- **Video connection.** It is carried out as for any traditional analog CCTV camera. The video signal produced by this camera can be set to composite video CVBS or AHD depending on the DVR that is to be connected, but there are no differences in the type of wiring of these two technologies. You typically use RG59 coaxial cable for distances up to 2-300 meters. E 'can also carry the video signal on twisted pairs

twisted

using special converters (RE-BNCRJ1) up to 200 m .. I for twisted cable converters are also available in active version to reach distances over 200 m.

- **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. 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 is recommended, but not necessary to use shielded cable. The CAT5 network cable, containing 4 twisted pairs is great for the realization of a RS485 BUS. The cameras and the console 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 BUS has not relevance. Every equipment will be identified by its own unique address, adjustable via DIP switches, which will properly address the instructions. E 'can be connected to the same BUS up to 256 cameras.

The console does not require any addressing, while for the cameras is necessary to set a different address for each camera, as described below.

Controls

The movements of these cameras are controlled via the common protocol PELCO P / D, which has become the industry standard. E 'can send commands with the appropriate console for dome cameras or through the DVR equipped with RS485 port.

Address, Protocol and Baud Rate

After connecting the camera you need to set the communication parameters in such a way that it is able to communicate with the control members. All elements of the RS485 BUS, both cameras that control devices must use the same protocol (PELCO D standard) and the same transmission speed (baud 2400,4800,9600)

Each camera must have an address different from the other in order to be identified along the BUS.

These three parameters: Protocol, Baud rate and address is set using DIP switches within the camera.

Set Protocol

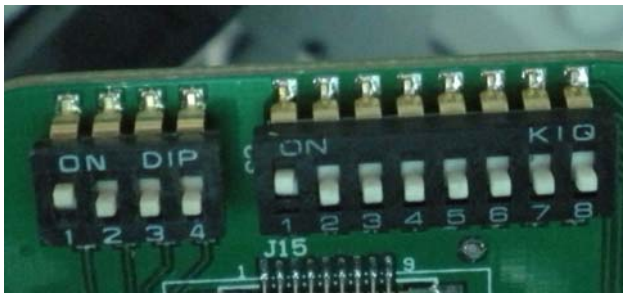
The cameras support the standard control protocols Pelco P and Pelco D, supported by the majority of the consoles and DVRs. The recognition of the protocol is automatic and requires no settings on the camera.

Set Baud rate and address

The speed communications parameters (baud rate) and the camera address is set through microswitches present on board room.
The proper setting of the microswitches is the first operation to be still perform before proceeding to the assembly. The factory setting is:

BAUD RATE 2400 BPS ADDRESS: 1

On the camera motherboard there are 2 blocks of microswitches: one from 4:01 to 8 switches.



The microswitch 4 block is used to set the baud rate.

Group 4 switches					
Switch No.	1	2	3	4	
Baud rate (BPS)	ON	OFF	OFF		2400
	OFF	ON	OFF		4800
	ON	ON	OFF		9600

The second block of 8 microswitches allows to set the camera address according to the following table. This type of assignment is defines HARDWARE ADDRESS.
It 'also possible, as we will see a software assignment via the OSD menu of the camera, but it is good to reserve a qualified expert when you need to operate a lot of speed dome cameras in the same installation.

The camera is set with address 1 Factory. E 'can set any address between 1 and 255 as long as different for each camera.

ADDRESS	SW.1	sw.2	sw.3	sw.4	sw.5	sw.6	sw.7	Sw.8
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
9	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
13	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
15	ON	ON	ON	ON	OFF	OFF	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
17	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
18	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
19	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
20	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
21	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
22	OFF	ON	ON	OFF	ON	OFF	OFF	OFF
23	ON	ON	ON	OFF	ON	OFF	OFF	OFF
24	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
25	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
26	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
27	ON	ON	OFF	ON	ON	OFF	OFF	OFF
28	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
29	ON	OFF	ON	ON	ON	OFF	OFF	OFF
30	OFF	ON	ON	ON	ON	OFF	OFF	OFF
31	ON	ON	ON	ON	ON	OFF	OFF	OFF
32	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
33	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
34	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
35	ON	ON	OFF	OFF	OFF	ON	OFF	OFF
36	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
37	ON	OFF	ON	OFF	OFF	ON	OFF	OFF
38	OFF	ON	ON	OFF	OFF	ON	OFF	OFF
39	ON	ON	ON	OFF	OFF	ON	OFF	OFF
40	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF
41	ON	OFF	OFF	ON	OFF	ON	OFF	OFF
42	OFF	ON	OFF	ON	OFF	ON	OFF	OFF
43	ON	ON	OFF	ON	OFF	ON	OFF	OFF
44	OFF	OFF	ON	ON	OFF	ON	OFF	OFF
45	ON	OFF	ON	ON	OFF	ON	OFF	OFF

46	OFF	ON	ON	ON	OFF	ON	OFF	OFF
47	ON	ON	ON	ON	OFF	ON	OFF	OFF
48	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF
49	ON	OFF	OFF	OFF	ON	ON	OFF	OFF
50	OFF	ON	OFF	OFF	ON	ON	OFF	OFF
51	ON	ON	OFF	OFF	ON	ON	OFF	OFF
52	OFF	OFF	ON	OFF	ON	ON	OFF	OFF
53	ON	OFF	ON	OFF	ON	ON	OFF	OFF
54	OFF	ON	ON	OFF	ON	ON	OFF	OFF
55	ON	ON	ON	OFF	ON	ON	OFF	OFF
56	OFF	OFF	OFF	ON	ON	ON	OFF	OFF
57	ON	OFF	OFF	ON	ON	ON	OFF	OFF
58	OFF	ON	OFF	ON	ON	ON	OFF	OFF
59	ON	ON	OFF	ON	ON	ON	OFF	OFF
60	OFF	OFF	ON	ON	ON	ON	OFF	OFF
...	... ..	... ..	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...
246	OFF	ON	ON	OFF	ON	ON	ON	ON
247	ON	ON	ON	OFF	ON	ON	ON	ON
248	OFF	OFF	OFF	ON	ON	ON	ON	ON
249	ON	OFF	OFF	ON	ON	ON	ON	ON
250	OFF	ON	OFF	ON	ON	ON	ON	ON
251	ON	ON	OFF	ON	ON	ON	ON	ON
252	OFF	OFF	ON	ON	ON	ON	ON	ON
253	ON	OFF	ON	ON	ON	ON	ON	ON
254	OFF	ON	ON	ON	ON	ON	ON	ON
255	ON	ON	ON	ON	ON	ON	ON	ON

predispose the organ of command

After setting the speed of communication parameters (baud rate) and address in the camera you must set the control member in a similar manner. Both our console speed dome that our DVRs are used to set the protocol, the speed and the address to control the motorized cameras. Consult the manual of the console or DVR for Details

Analog Video or AHD

This cameras support AHD technology with 720P resolution (SD-xxxHD) and 1080P (SD-xxxFD)

The AHD technology is the latest development in analog CCTV. Launched in May 2014 by Nextchip, world leader in the production of DSP for CCTV, the AHD technology allows analog cameras

reaching resolutions **HD720P (1280x720) and HD1080P (1920x1080)** previously obtainable only with IP technology or HD-SDI. These AHD cameras, video recorders combined with the latest generation of AHD, providing megapixel resolution, without

latency, maintaining the whole ease of installation of an analog system.
It is twice the resolution compared to traditional analog video.

In order to use the AHD technology you need a VCR that supports this technology.

AHD / CVBS Switching

The camera is supplied factory in AHD mode which presumably will be used using modern AHD VCRs.

The 720P models also support the CVBS mode (traditional analog) and can also be connected to old traditional DVR. If you have **AHD switch video output to CVBS or vice versa, please contact our technical support.**

Cameras 4 in 1 AHD / CVI / TVI and CVBS

The models 4 in 1 (RE ---- 4) are able to support all analog video formats available today, including those used by other manufacturers. In addition to traditional analog CVBS video and the format described AHD

poch'anzi, these cameras also support other two analog formats in high resolution, similar to AHD but used by other manufacturers: CVI (Dahua) and TVI (Hikvision).

If not otherwise required these cameras are supplied in AHD mode. E 'can make the switching recalling the following presets:

CVBS	Call preset 56
AHD	Call preset 57
CVI	Call preset 58
TVI	Call preset 59

Ceiling mount

The speed dome cameras indoor SD series can be installed in the ceiling without the need for any additional accessory. You should do the following:

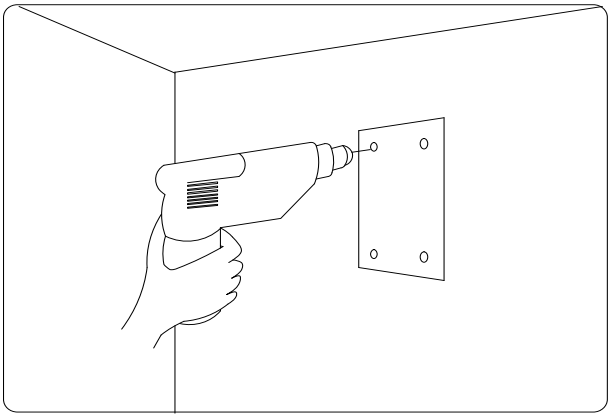
- Carefully pull the from the camera body package.
- Unscrew the white protective collar that surrounds the camera so as to uncover the electronics and mounting holes

- Fasten the ceiling base with 3 dowels

- Screw the collar to complete the installation

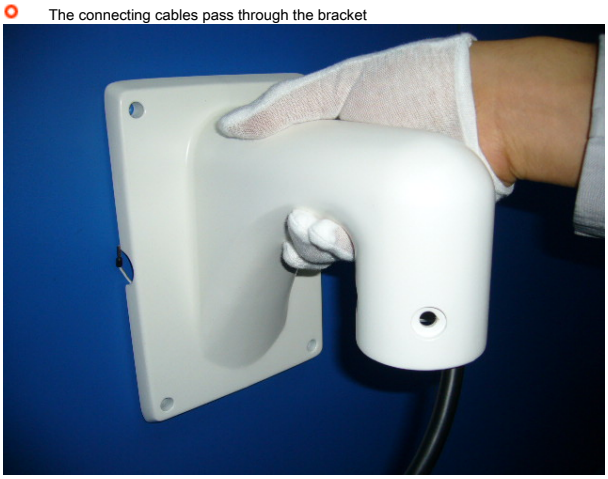
Wall mounting

The SD series speed dome cameras are supplied with a bracket for wall mounting. The camera cable in this case must pass through the bracket. In the pictures that follow the example of installing the wall bracket



- Fasten the wall bracket by plugs, taking care to leave the cable outlet at the center between the fixing holes.

- The connecting cables pass through the bracket



- Connect the camera and fasten it to the bracket with the supplied screws.

Other types of bracket are optionally available.

BASIC OPERATIONS

Once properly installed the camera and arranged at least one control organ (keyboard or DVR) is possible to test the first operational commands. Below we listed the main controls through which it is possible to control the speed dome cameras.

On and Self Test

Powering the camera will start a sequence of automatic operations. The camera performs a series of movements and verifies the operation of the horizontal movement of the vertical movement and the camera body.

A monitor appear overlay the
Protocol, the communication speed and the address set in the camera via the microswitches. At the end of the automatic test the camera is ready to receive the incoming commands from the console.

Pan Tilt Control Manual

The first command to verify the correct communication between the camera and the console is the displacement RIGHT / LEFT (PAN) and UP / DOWN (TILT) by acting on the console joystick. If the camera does not react to the console commands it means that something is not in the choir communication. Check in order:

1 - That the two twisted wires leading to the RS485 or wire is not reversed (A with A and B to B). 2 - That the console or DVR are set with Pelco D Protocol and that the chosen speed is the same as set in the camera (2400, 4800, 9600) 3 - That on the console or DVR the camera address is selected to be controlled . To facilitate these checks, the start screen of the camera summarizes all

his settings of
communication (protocol, speed and address)

manual ZOOM Command

The cameras feature a 10x optical zoom. To control the zoom is possible to act on the keyboard ZOOM +/- buttons (or TELE / WIDE depending on the console). If you're using a so-called 3D console you can also control the zoom by rotating the head of the joystick.

If necessary, it is possible to change the focus by pressing the buttons FOCUS +/- (or NEAR / FAR depending on the console), but it is generally more practical to allow that the camera uses the autofocus function. The controls of the opening IRIS +/- Aperture are not normally allowed by the cameras factory settings.

Setting PRESET

The cameras are in degree to store predefined positions that can be called up quickly without having to manually move the joystick.

Each camera is able to handle 256 PRESET each distinguished by its own value of XY coordinates, ZOOM and FOCUS.

In reality not all of these presets are available to the user to be customized as some have built-in features that we will see below, and which are defined SYSTEM PRESET. To set a preset do the following:

- Select the camera to be controlled
- Acting on the joystick to position the camera in the point favorite and adjust the zoom
- Dial on the keyboard to set the preset number, for example: 1 and send the SET PRESET control (see manual of the console)
- The camera stores the pre-positioning. Each control center uses different wordings and sequences. To consult

accompanying documents
organist command to know the exact
sequence to be dialed.

Recalling Preset

Once you have stored presets for interest
You can easily recall from the keyboard acting as follows:

- Check that you have selected the camera
- Dial the number PRESET
- to press the button recall PRESET, generally CALL or PREVIEW or GO TO depending on the console.

The camera automatically moves up to the stored position. Each control center uses different wordings and sequences. To consult

accompanying documents
organist command to know the exact
sequence to be dialed.

automatic movements

The cameras can perform automatic movements as scans
panoramic or sequences of
presets. Setting these movements you make in the programming menu that is described below. The initiation of these movements is carried out with the organ of control commands or by using the system presets.

System PRESET

Not all of the 255 camera presets are available for user customization; some presets, 60-99,

They are used by the camera for specific functionality and are denominated SYSTEM PRESET. The system Preset allow access to the configuration of the camera and to impart quickly the main controls, such as the start of SCAN, and PATTERN CRUISE. Even the control console and provide DVR button to start automatic movements, but often, because of imperfect standardization of Pelco protocol may not be effective. The use of the system presets is instead always working on each type of control units.

The cameras in this range allows many operations with the use of the OSD menu system presets making even superfluous describe later.

PRESET	FUNCTION CONTROL		DESCRIPTION
GENERAL COMMANDS			
60	CALL	Clear Preset	Recalling the preset 60 to delete all the preset settings that were previously stored in the camera.
95	CALL	Opens OSD	Recalling preset 95 opens the general OSD programming menu (see below)
70	CALL	Opens OSD menu only camera module	Recalling the preset 70 opens the programming menu of the OSD only camera module (see below)
96	CALL	Restore default	Restore factory settings
56	CALL	Video format CVBS (SD model only ---- 4)	Switches the camera video output CVBS (Traditional analog). The command is only active on the 4 in 1 (--- 4)
57	CALL	AHD Video format (SD model only ---- 4)	Switch the camera's video output AHD (analog high definition). The command is only active on the 4 in 1 (--- 4)
58	CALL	Video Format CVI (SD model only ---- 4)	Switch the camera's video output CVI (Dahua). The command is only active on the 4 in 1 (--- 4)
59	CALL	TVI Video format (SD model only ---- 4)	Switch the camera's video output in TVI (Hikvision). The command is only active on the 4 in 1 (--- 4)
SETTING ACTION HOME (HOME)			
61	CALL	Set IDLE to PRESET 1 In all our PTZ cameras	you can set a main action, ie a type of movement that the camera will return to run automatically after a certain idle time of the operator. This main function is defined IDLE. Recalling the 61 presets the leading position of the camera (IDLE) will be the PRESET 1
62	CALL	Set IDLE on TOUR 1	Recalling the preset 62, the main camera position (IDLE see above) will be the TOUR 1
63	CALL	IDLE SCAN Set of A / B	Recalling the preset 63, the main camera position (IDLE see above) will be the panoramic scanning between two points A / B switch
64	CALL	Set on IDLE SCAN 360 °	Recalling the preset 64, the main camera position (IDLE see above) will be scanning the panoramic 360 °
70	CALL	Opens OSD room	Recalling the preset 70 opens the menu screen (OSD) for the configuration of the camera module
TOUR MANAGEMENT (CRUISE)			

71	CALL	Start TOUR 1	A TOUR is the sequential display of various presets. Recalling the preset 71 starts the TOUR 1 between 1 and 16 presets Any presets are not programmed are ignored
72	CALL	Start TOUR 2	Starts the TOUR 2 is presets 17:32
73	CALL	Start TOUR 3	Starts the TOUR 3 does presets 33 and 48
74	CALL	Start TOUR 4	Starts the TOUR 4 is preset 240 and 255
75..79	CALL	Set permanence tour	When running a tour the camera is stationed on each preset for a set time. Recalling these presets you set the residence time as follows: 75 = 4 sec. 76 = 77 = 8 sec 10 sec. 78 = 15 sec. 79 = 20 sec.

PATTERN MANAGEMENT

81	CALL	Record PATTERN 1	A PATTERN is a sequence of movements and zoom that can be recorded and recalled at any time. To store the sequence of operations of the PATTERN 1 move to the start point and recall the preset 81. From this moment, the camera will store all the operations that will be performed. Then start to take the camera with all the movements of Pan Tilt Zoom and you want to store. When call preset 85 to save the pattern 1
82	CALL	Record PATTERN 2	Like above
83	CALL	Record PATTERN 3	Like above
84	CALL	Record PATTERN 4	Like above
85	CALL	End Rec. PATTERN	Recalling the preset 85 stops the recording of the current pattern sequence (1,2,3 or 4)
86	CALL	Start PATTERN 1	Starts the execution of the Pattern 1
87	CALL	Start PATTERN 2	Starts the execution of the Pattern 2
88	CALL	Start PATTERN 3	Starts the execution of the Pattern 3
89	CALL	Start PATTERN 4	Starts the execution of Pattern 4

MANAGEMENT SCAN

91	CALL	Set SX SCAN limit	As linear SCAN defines the horizontal continuous movement between two limit switches with the same level of TILT. To set the left limit position the preferred point in the camera and recall the preset 91
ninety two	CALL	Set DX SCAN limit	As above to set the right limit of SCAN
93	CALL	start SCAN	Start panning between the right and left switches
94	CALL	Clear SCAN limits	Delete the limit switch settings set to scan with preset 91/92
99	CALL	Start Scan 360 °	Start panoramic rotation 360 ° continuous without limit switches
65..69	CALL	Set speed of the panoramic scanning (both between limit switch 360 °)	The panning is set using preset listed above. These presets set the scan speed: 65 = 3 ° / sec 66 = 6 ° / sec 67 = 9 ° / 68 sec = 15 ° / 69 sec = 40 ° / sec

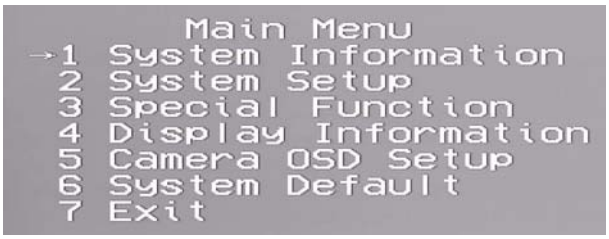
MENU OSD DoMEs

In the camera setup menu, you can set all the operating parameters of the camera and its movement.
The access to the menu is not required for normal operation of the dome as the main control functions and setting can be operated via the system presets as just described. In the OSD are however additional controls.

Access to the Main OSD

To access the OSD setup menu just call from the console:

PRESET 95 system.
Typically, you must first select all the address of camera that Yes want program, then type 95 and then press CALL or PREVIEW or GO TO (refer to the manual of the console on how to recall a preset)



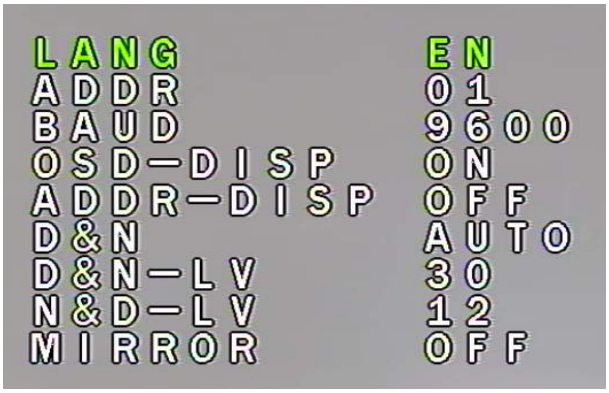
To move within the general OSD menu using the joystick or navigation arrows.

To select a menu item or exit using the IRIS + button (ENTER) and IRIS - (EXIT)

Access to the OSD menu of the camera module only

In the OSD menu, the CAMERA section is a submenu reserved for settings of one module SONY camera where action is taken to change the parameters inherent in the image. E 'can directly access this area by calling:

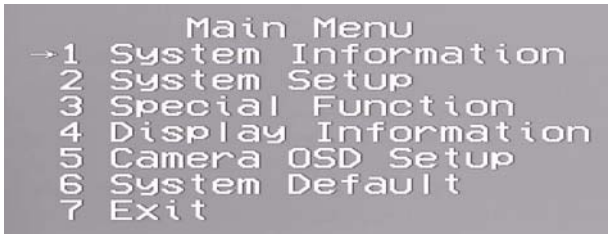
System PRESET 70



To move around the OSD menu of the camera module just do not use the joystick or arrows shift. You move between the items with ZOOM + / ZOOM - and you change the values of individual entries with FOCUS + / FOCUS -

System info

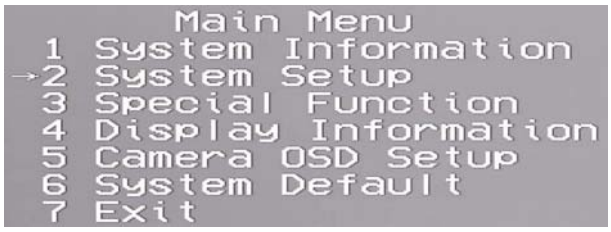
This menu item provides information on the camera. This is an information-only panel where you can not set anything.

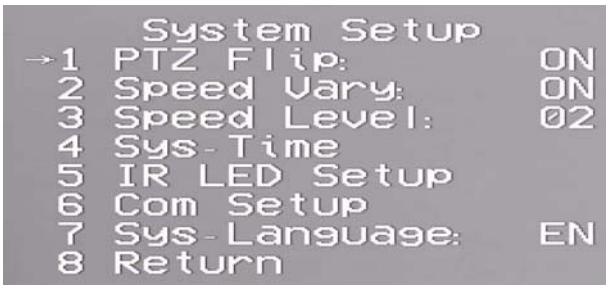


- SYS VERSION - Firmware version.
- SYS ADDRESS - Address of the camera on the RS485 BUS.
- SYS PROTOCOL - Indicates protocol communication used on the RS-485 bus.
- SYS BADRATE - speed communication protocol on the RS485 BUS.
- SYS SelfCheck - Result of the self-diagnosis function on startup. It must be OK.

System setup

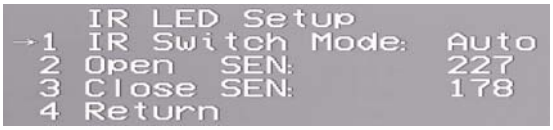
This section contains all general settings of the speed dome camera





- PTZ FLIP - It must be enabled if during the vertical displacement (TILT) you want the camera, now in its vertical position performs a rotation of 180 ° and continue the movement in the other direction (AUTOFLIP).
- SPEED VARY - If you enable this option the speed of the camera Yes decreases automatically based on the level of zoom.
- SPEED LEVEL - Adjusts the camera movement speed (1 to 7)
- SYS TIME - Allows you to set the camera's time for the functions timed.

  CAUTION: This function is currently not available because the camera does not have a battery capable of preserving the current time.
-
- IR LED SETUP - E 'can adjust the power mode of the IR LED (Automatic, Always DAY colors, Always B / N NIGHT)



- COM Setup - Opens the communication parameters control panel

In this panel you can set a speed protocol and an address of guy software that will to take over setting hardware given by the dip switch on board room. This change should only be used by experienced personnel as once changed this address and saved with the RETURN command, the camera will not respond to the previous address. The camera considering how prevalent the last set address, hardware or software that is. If after

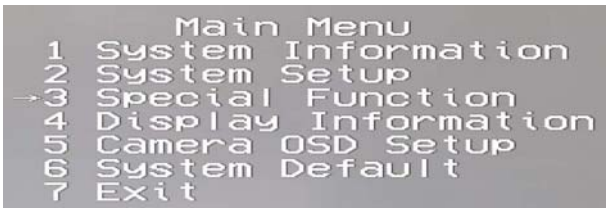
set a software address is changed the position of the dip-switch board room, the camera will resume the address hardware. This way you avoid losing the communication with the camera because of

improper settings. However, remember that the camera shows its address at boot superimposed.

- SYS LANGUAGE - Only English

Special function

This section contains all the programming for the automatic movement of the camera.



To avoid misunderstandings in the reading of this part of the manual appropriate first to clarify that for these cameras, there are 4 types of automatic movements:

- **PRESET** - The presets are preset camera positions characterized by a precise value of X / Y coordinates, zoom and focus. You can also call

  Easily keyboard

  if necessary.
- **SCAN** - Yes It means the continuous movement RIGHT-LEFT between two end positions or 360 °.
- **PATROL / TOUR** - Also commonly called CRUISE. It means the automatic movement of the camera between presets with a residence time on each of them programmable.
- **PATTERN** - Similar to the TOUR. The camera, however, does not follow in sequence the various presets, but a sequence of user customized prerecorded movements.

Preset Function

This section allows you to set the camera presets via the programming menu, although this is also possible via the controls

from keyboard such as already described previously.

- PRESET NUMBER - Select the preset number to be set. Do not use presets 60-100 used as the system presets.
- September PRE POS - Select this to set the preset position. Upon entering the programming necessary to position the camera with the desired coordinates and zoom and then press IRIS + to save or IRIS - to exit.
- ONE OF THE PRESET - Clear the setting of a preset
- OF ALL PRESETS - Clears all presets

Idle Function

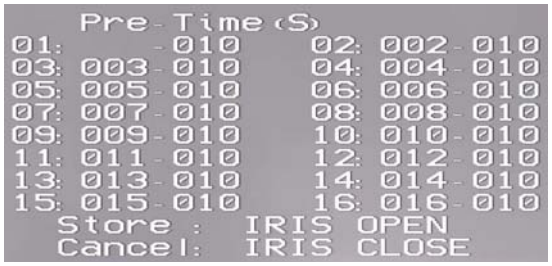
This section allows you to set the function main camera, that it will return to run automatically after a certain time of the absence of commands by the operator.

- IDLE CALL - E 'can indicate which define automatic movement as the main action of the camera (ASC: Autoscan between 2 limit switches SSC: Scan 360 °, Preset, Tour and Pattern)
- WAIT TIME - Sets the time of absence commands to wait before starting the main action (IDLE)

Patrol (or Tour or Cruise)

This section allows to set the TOUR, namely the automatic movement of the camera between presets. This camera supports 16 TOUR different, each containing up to 16 presets. The presets from 1 to 4 are preconfigured factory preset and contain the following: TOUR 1 - Preset 1 to 16. TOUR 2 - Preset 17 to 32 TOUR 3 - Preset 33 to 48 TOUR 4 - Preset from 240 to 255 TOUR 5..16 - free configuration

- PATROL NUMBER - Select the number of the TOUR to be programmed (1 to 16).
- September PATROL - Lets you choose presets that make up the tour and set the time spent on each. With the IRIS + command you save programming

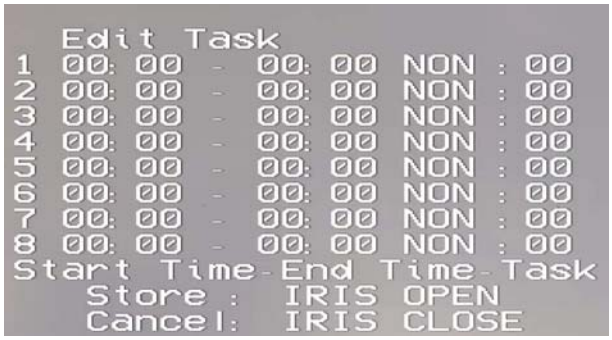


- RUN PATROL - Allows you to start a tour
- THE PATROL - Allows cancel Configuration of a tour.

Task Timer

This part of the menu allows you to program automatic functions based on time of day. E 'can program up to 8 timed actions.

CAUTION: This function is currently not available because the camera does not have a battery capable of preserving the current time.



For each program you set the start time and end time, then you choose the automatic function to be executed (preset, tour, etc.) and the number of the function.

You can program the following functions: PTN (pattern), PRE (preset), RSC (360 ° scan), ASC (autoscan between limit switches), PAT (patrol / tour)

Pattern Function

This camera is able to record a sequence of operations performed by the user, such as displacements, zoom etc. for them rerun automatically. These stored sequences are defined PATTERN. The camera allows you to record 8 pattern.

- PATTERN NUMBER - The number of the pattern to be programmed (1 to 8)
- EDIT PATTERN - By choosing this option you start recording the sequence of customized movements. When finished with IRIS + you save the regsitrazione.
- RUN PATTERN - Allows you to run a csleta pattern (1..8)
- THE PATTERN - Delete a stored pattern

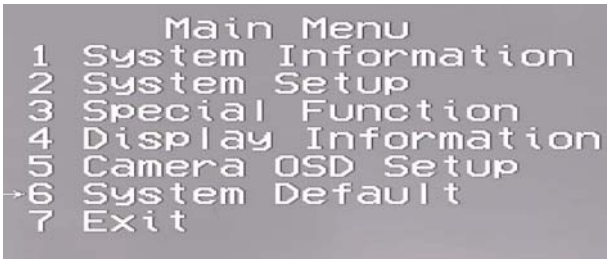
Display information

This section allows you to define what information to display overlays in the camera's video signal.

- **SYS TIME -** Now the camera
- **SYS POSITION -** Position coordinates
- **START INFORMATION -** startup Information

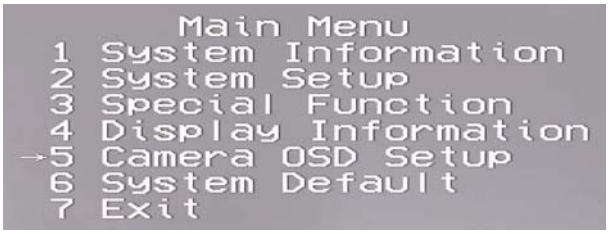
System default

This section allows you to restore the factory configuration.



OSD Camera set-up

This section contains the settings of the camera module which has its own independent configuration from the mechanical movement of the dome.

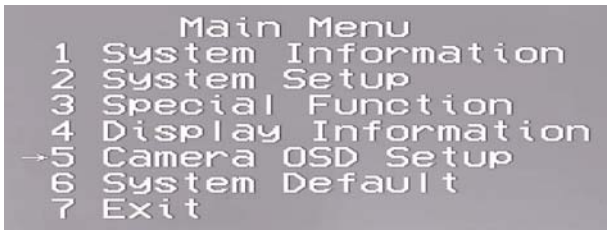


The camera module options are described in the next chapter.

MENU OSD CAMERA MODULE 720P

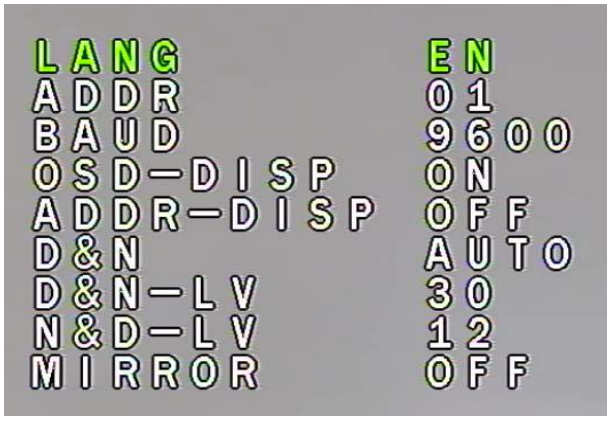
Access to the OSD menu of the camera module only

Inside the dome OSD menu is an entry to access the OSD of the camera module.

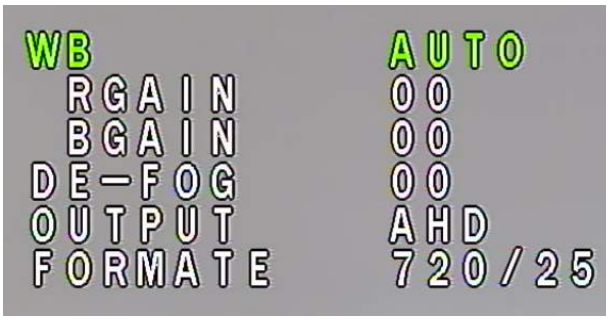


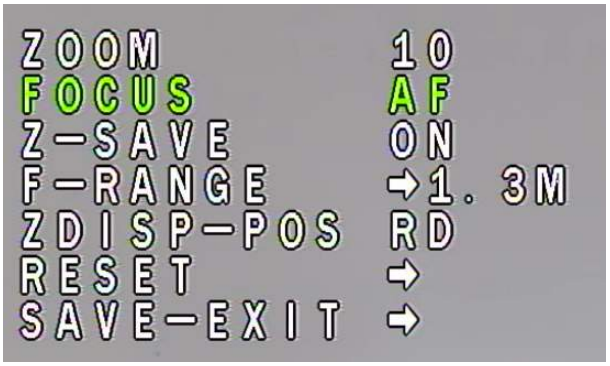
E 'can also directly access this section by calling:

System PRESET 70



To move around the OSD menu of the camera module just do not use the joystick or arrows shift. You move between the items with ZOOM + / ZOOM - and you change the values of individual entries with FOCUS + / FOCUS -





- LANG - Only English
- ADDRESS - Display the camera address
- BAUD - Shows the speed of the Protocol
- OSD DISP - Not available
- ADDRESS DISP - Not available
- D & N - Sets the operation day night AUTO, COLOR, B / W, CDS (sensor)

- D & N LV - passage Threshold Day-Night
- N & D LV - Threshold crossing Night-Day

- MIRROR - tilting feature image for mounting the non-conventional camera.

- AGC - Level of the automatic gain control

- BRIGHT - Dimming
- CONTRAST - Adjust contrast
- SHARPNESS - Adjust Definition
- SAT - Saturation adjustment
- ATR - Not available
- 2DNR - 2D Noise Reduction
- 3DNR - 3D Noise Reduction
- BLC - Back Light Compensation
- WB - White Balance
- DE-FOG - digital compensation function of the fog

- OUTPUT - Video output setting of AHD or CVBS camera

- FORMAT - choice of resolution options available

- ZOOM - Indicates the available zoom
- FOCUS - Only autofocus
- Z-SAVE - Set the zoom value to display overlay

- F-RANGE - Adjusts the depth of field of the focus of the autofocus function

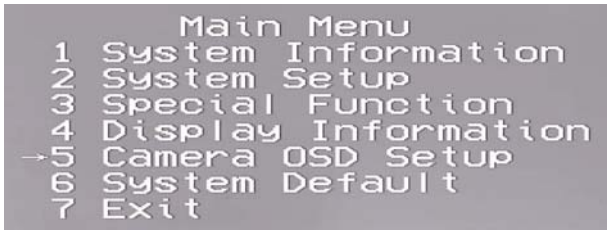
- ZDISP-POS - Rule the position of the superimpose zoom value (RD = Bottom right, LD = Bottom left, LU = top left, RU = Upper Right

- RESET - Restores the factory settings
- SAVE EXIT

MENU OSD CAMERA MODULE 1080P

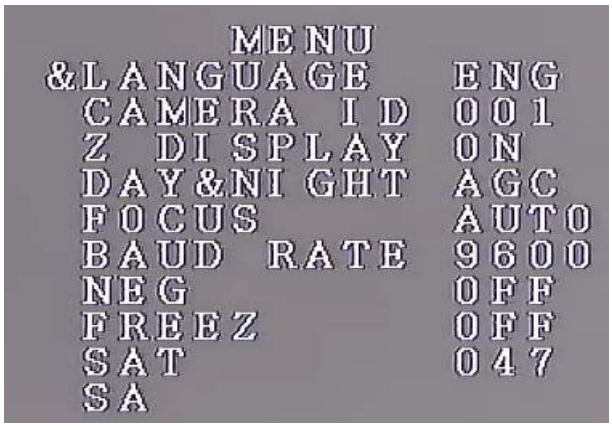
Access to the OSD menu of the camera module only

Inside the dome OSD menu is an entry to access the OSD of the camera module.



E 'can also directly access this section by calling:

System PRESET 70



To move around the OSD menu of the camera module just do not use the joystick or arrows shift. You move between the items with ZOOM + / ZOOM - and you change the values of individual entries with FOCUS + / FOCUS -

- LANGUAGE - English Available
- CAMERA ID - No change
- Z DISPLAY - Enable superimpose zoom level
- DAY & NIGHT - Defines the day / night changeover mode: AGC (automatic based on the image brightness) CDS (automatic based on sensor) COLOR (always color image) BK (still picture B / N
- FOCUS - Defines the management of fire (AUTO / MANUAL)
- BAUD RATE - not editable
- NEG - Author: negative
- FREEZE - Freeze the screen image
- SAT - Adjusts the saturation
- SA - Save