SERIES SD-A

Cameras

High Speed Dome

INTRODUCTION

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

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. Today there are two technologies to control remote cameras: PTZ electromechanical (combined with standard motorized lenses and cameras) and Speed Dome cameras.

- **T Motors electromechanical and objectives motorized**

With the use of an electromechanical tilt and a zoom lens becomes a remotely controllable any standard camera. They are used motorized objectives, with inside 3 motors capable of controlling Fire, Aperture and Focal and rotating media, said traverses, also controlled by motors for the horizontal and vertical rotation. The control of these engines

Zoom lens

in one sense or another it is via direct sending of the control voltage via a console connected with a multipole cable typically containing 12 poles.

It is still a viable option because it is very simple and robust, but with obvious limits application. Every camera in fact it requires a direct wiring to its control panel with a clear complexity in management of many cameras.

Pan

Console

- **Speed Dome Cameras**

Yes It is the most modern solution and does not use standard cameras, but special controlled equipment to remotely via serial line. The command is carried out by means of proper control console or by themselves devices of digital recording as D- Vision.

Speed dome camera

Benefits of Speed Dome cameras than traditional PTZ

The Speed-Dome cameras offer several advantages compared to electromechanical solutions. Among these examples are:

- High rotation speeds elegant design and dimensions contained Ability to control many
- cameras from a single location with a single cascade wiring
-
- Possibility of having more than one control panel and from each of them access to all cameras
- Possibility of set preset shots (PRESET) and automatically recalls
- Possibility of set automatic movements repetitive.
- Possibility of controlling the cameras directly from device video recording capability Advanced Software.

PRODUCT RANGE

Cameras high speed dome

SD-A10IR
Zoom 10x
For in mounting inside
ceiling

SD-A27EX
Zoom 27x
For outdoor installation
wall bracket or ceiling

Fixing bars

SD-AST2
Wall Bracket
SD-A27EX

SD-AST3
Ceiling Bracket
SD-A27EX

SD-ST4
Collar for mounting on a pole for SD-
brackets
AST2

SD-AST5
Accessory for mounting at an
angle to SD-AST2 brackets

Console and accessories

SD-CON1
Control panel for SD series cameras with
3D joystick for control

movement and zoom

SD-CON3
Control Console for SD series cameras
with 2D joystick control

movements

SD-232485
RS232 / RS485
for PC control

HIGHLIGHTS PTZ

FEATURE	A27EX-SD and SD-A10IR
Movement speed in manual control	PAN: Min. 0.1 ° - Max. 200 ° / sec. TILT: Min. 0.1 ° - Max. 120 ° / sec. Automatic adjustment according to the zoom
Speed in automatic control movement (PRESET)	PAN: 300 ° / sec. TILT: 150 ° / sec.
Excursion horizontal movement (PAN)	360 ° without limit switches
Excursion vertical movement (TILT)	0-90 ° (180 ° AUTOFLIP function)
Programmable Presets (PRESET)	Max. 256
panoramic movement between two limit Preposition	Yes - 4 sequences - (SCAN function)
Automatic movement between multiple presets	Yes - 8 of max 16 presets sequences - Programmable Speed - Time stay programmable independently for each preset - (TOUR function)
autoflip function to follow the target beyond the vertical	It is 180 °
Registering custom motion sequences	It - 4 sequences - (PATTERN Function)

PRINCIPAL ELECTRICAL

FEATURE	A27EX-SD and SD-A10IR
Supply voltage	3A 12VDC +/- 10%
Power consumption	36W
Communication with the control unit	Serial RS485
Cable to be used for connecting the RS485 command	Twisted pair 0.5 mm - Length. max 1200 m.
RS485 communication protocol	Pelco D / P Pelco automatic recognition
Speed RS485 communication protocol (Baud Rate)	1200-2400 - 4800 - 9600 selectable
Maximum number of cameras that can be connected in cascade RS485	256
Maximum number of control console	32
power and control connections	DC plug 5.5 mm + 2 cables RS485A / RS485B
Output Video Connections	BNC female connector

PRINCIPAL MECHANICAL

FEATURE	SD-A10IR	SD-A27EX
Installation	Indoor	External
mounting	ceiling	On wall bracket
for Wall Mount Bracket	Not available	SD-AST2
Bracket for ceiling mounting	not required	SD-AST3
Protection Housing	IP55	IP66
Operating Humidity	10% 90%	10% 90%
operating temperature	- 10 ° .. + 50 ° C	- 10 ° .. + 50 ° C
Housing material	Aluminum	Aluminum
Material of the transparent dome	Polycarbonate	Polycarbonate

Weight	1.5 Kg.	2.5 Kg.

MAIN CAMERA DATA

FEATURE	SD-A10IR	SD-A27EX
CCD Sensor	SONY Super HAD 1/4 "Color	SONY Super HAD 1/4 "Color
Video output signal	1V pp 75 Ohm	1V pp 75 Ohm
video Format	PAL	PAL
Function Day / Night	It is compatible with IR illuminators	No
Number of Pixels	752x582 pixels	752x582 pixels
Video Signal Process	Digital DSP	Digital DSP
Resolution	540 TV Lines	540 TV Lines
Synchronization	internal	internal
Signal / noise ratio (S / N ratio)	Greater than 60 dB	Greater than 60 dB
Electronic Shutter Speed (Shutter)	1/50 ... 1 / 10,000 sec.	1/50 ... 1 / 10,000 sec.
integrated IR illuminator	30 m.	No
minimum Illumination	Day Color: 0.05 Lux Night B / W: 0.01 Lux	Day Color: 0.05 Lux Night B / W: 0.01 Lux
White Balance (AWB)	Automatic	Automatic
iris control	autoiris	autoiris
Automatic Gain Control (AGC) Yes		Yes
Backlight Compensation (BLC)	Yes	Yes
image Adjustments	Brightness	Brightness
Mirror Image (MIRROR)	Yes	Yes

MAIN OBJECTIVE DATA

FEATURE	SD-A10IR	SD-A27EX
optical Zoom	10x	27X
focal	Min. 3.8 mm (wide angle) Max. 38 mm. (Tele)	Min. 3.2 mm (wide angle) Max. 86.40 (tele)
F-Stop	F1.8 F2.9 ...	F1.8 F2.9 ...
Autofocus	Manual / Automatic	Manual / Automatic

INSTALLATION OF CAMERAS

The SD-A series cameras are packed carefully to prevent damage during transport. First, you must check the received material.

Material check

The speed dome camera that you have purchased is protected by elements Packaging ranging carefully removed before using it.

Cable connections

Each camera Speed Dome SD-A series has a cable fitted with the following connections:

- **Connector - plug** power 12VDC
- **video Output** BNC female
- **2 Cables -** BUS communication **RS485**

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

- **Power supply 12V** DC. E 'can feed the locally camera with a 220VAC / 12VDC adapter or prepare a 12VDC network with cables with a suitable section so as to avoid excessive voltage drop. Should you connect the cameras locally you can use 12V power supplies stabilized for at least 3A as the RE-AL5 model.

- **Video connection.** It is carried out as for any traditional CCTV camera, being the video signal produced by a composite video camera. You typically use RG59 coaxial cable for distances up to 2-300 meters. For greater distances is

You can carry the video signal on twisted pairs using special converters (RE-BNCRJ1 / 2).

- **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 to use shielded cable. The cameras and the console must be connected in cascade ie entering and exiting from the clamps 2 and RS485A RS485B. IS'

important not invert the two cables (AB) during the connection of the equipment.

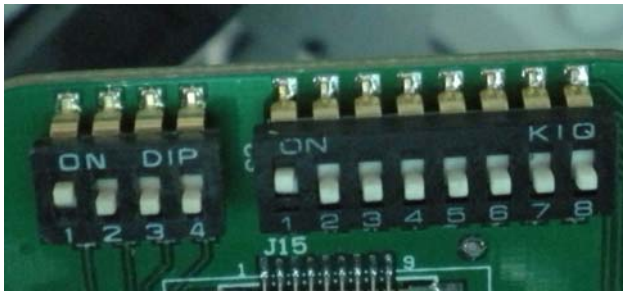
The order in which the devices are connected to BUS has not relevance. Every equipment will be identified by its own unique address, adjustable via DIP switches, which will properly address the instructions. E 'can be connected to the same BUS up to 256 cameras. The console does not require any addressing, while for the cameras is necessary to set a different address for each camera, as described below.

Setting address and baud rate of the cameras

Each camera must have an address different from the other in order to be identified along the BUS. It must also be able to communicate with other devices using the same protocol and the same transmission rate (or baud rate). These three parameters: Address, Protocol and Baud rate is set via DIP switches on board room. The factory setting is:

PROTOCOL: PELCO D BAUD RATE:
2400 BPS ADDRESS: 1

The proper setting of the microswitches is therefore the first operation to be performed before proceeding with assembly.



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 communication protocol and transmission speed.

Group 4 switches					
No.	1	2	3	4	
Protocol	OFF OFF				PELCO-P / D
	ON OFF				PELCO-P / D
	OFF ON				Reserved
	OR NOT				Reserved
Baud rate (BPS)			OFF OFF		2400
			ON OFF		4800
			OFF ON		9600
			OR NOT		19200

The SD-A series cameras are controlled solely with protocol PELCO PELCO P or D (automatic detection).

The second block of 8 microswitches allows to set the camera address according to the following table:

8 switches Group - Address Table

ADDRESS	SW.1	sw.2	sw.3	sw.4	sw.5	sw.6	sw.7	Sw.8
0	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
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	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
14	ON	OFF	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

The set address and factory: 1, which is the only one switch in the ON position.

SD-A10IR Assembly

CAUTION: shows photographs are to be considered exemplary in that the mechanical details may be different depending on the version of the purchased product.

The SD-A10IR cameras can be installed ceiling without 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

SD-A27EX Assembly with wall bracket

The cameras SD-XXEX type (for external use) can be installed on the wall with the aid of the SD-ST2 brackets. SD- AST2 / 3, which must be ordered separately.

In the pictures that follow the example of installing the wall bracket

- Fasten the wall bracket by plugs, taking care to pass the connecting cables to the system through the bracket itself.

- The connecting cables pass through the bracket

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

Mounting console

The movement control of the speed dome cameras is done through the RS485 serial port sending commands using a special console or via a VCR.

The control devices are connected along the bus 485, such as cameras and do not require addressing. E ', however, essential that the protocol used is PELCO-D and the speed equal to that set in the cameras.

For programming of the control devices refer to the manual of the console or DVR.

BASIC OPERATIONS

Below we listed the main controls through which it is possible to control the speed dome.

On and Self Test

Powering the camera will start a sequence of automatic operations. The camera performs a series of automated movements in the order and verification operation of the horizontal movement,

of the

and vertical movement of the camera body. A screen you can follow the self-test process, and will also report

overlay the

Protocol The communication speed and the address set on the camera by the microswitches. After the self-tests show the message CHECK OK CAMERA and the camera is ready to take commands coming 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 - What is the console that camera have been set with PELCO D protocol and equal transmission rate.

3 - That the center console is selected the camera address 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 are equipped with a 10x optical zoom and 27x. 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.

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 capable of storing 256 PRESET each distinguished by its own value of XY coordinates, ZOOM and FOCUS. To set a preset do the following:

- Select the camera to be controlled
- Acting on the joystick to position the camera in your favorite tune and adjust zoom and eventual fire
- Dial on the keyboard to set the preset number (1 to 256)

- Press on the keyboard the setting button generally referred to as PRESET The camera stores the preset. To confirm the correctness of the transaction appears on-screen overlay the inscription: XX PRESET SET OK. If the confirmation does not appear, check that you have correctly used the button on the keyboard with the preset setting function and not entering the number of a Preset system with unique functions (see below)

Recalling Preset

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

- Select the camera to be controlled
- Dial the number PRESET
- to press the button recall PRESET, generally CALL or PREVIEW depending on the console.

The camera automatically moves up to the stored position.

System PRESET

Not all of the 256 stored presets are available for user customization; some are used by the camera for particular functionalities:

PRESET	FUNCTION
64 and 95	Login configuration of all functions
57	Access only camera configuration
56	Exit configuration (also IRIS-)
97 and 99	Starting AUTO SCAN
96	End AUTO SCAN (also manual controls)
32	Start TOUR 1
53	TOUR 2 Start

49	Start TOUR 3
50	Start TOUR 4
58	PATTERN Starts 1
51 September	Set limit SCAN START DX-SX 1
52 September	Set limit END SCAN DX-SX 1
51 CALL	Starting SCAN DX-SX 1
52 CALL	Starting SCAN DX-SX 2 (menu-limit)
91	IR forced ignition (if present)
ninety two	IR Forced Off (if present)
93	Reset camera
94	Restore factory settings
59	4 combination Start TOUR

The system Preset allow access to the configuration of the camera as well as to impart quickly the main controls. The complete programming of the functions are, however, carried out in the camera setup menu that is Mr. Fox next chapter and which also includes a detailed explanation of the individual functions.

CONFIGURATION

In the configuration menu you can set all the operating parameters of the camera and its movement.

Access the menu

To access the menu configuration just call from the console:
PRESET 64 or 95 system.
The configuration MENU will appear on the screen

MAIN MENU
CAMERA SETUP ---> DOME
SETTINGS ---> --- FUNCTION
SETTINGS> SYSTEM SETTINGS
---> SPECIAL FUNCTION ---> EXIT

How to operate in the Menu

- Use the joystick of the console by moving it up and down to move between menu items. Alternatively you can press ZOOM +/-
- Move the joystick to the right to enter a submenu. Alternatively you can press FOCUS +
- Move the joystick left and right to set the value of a selected option. Alternatively you can use FOCUS +/-
- To exit and return to the previous menu, select EXIT / RETURN and press FOCUS +
- To exit the menu immediately press IRIS-

Main Menu

The first page of the configuration menu divided into five major categories all configuration options

MAIN MENU
CAMERA SETUP ---> DOME
SETTINGS ---> --- FUNCTION
SETTINGS> SYSTEM SETTINGS
---> SPECIAL FUNCTION ---> EXIT

CAMERA SETUP: Its the only body camera options

DOME SETTINGS: The options for the PAN / TILT movement mechanism

FUNCTION SETTING: The settings of the automatic movements of the camera SYSTEM SETTING: The general options of the system SPECIAL FUNCTION: The special options, if available.

Camera Setup

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

CAMERA SETUP

LANGUAGE	ENGLISH
ZOOMDISP	ON
AGC	200
BLC	OFF
SHUTTER	CAR
FOCUS	CAR
BRIGHT	130
COLORSEL	CAR
MIRROR	OFF
LENINIT	----
DEFAULT	----

- LANGUAGE - ENGLISH Available
- ZOOMDISP - ON / OFF - allows you to choose whether to show an overlay on the bottom right the zoom level during the execution of the command. Not to be confused with the overlays on the bottom left that are set in the SYSTEM SETTINGS
- AGC - 200 (160 ... 240 / AUTO) - Automatic gain control improves performance in shooting twilight amplifying the signal of the camera and on the other hand inevitably introducing a bit 'of video noise compared to the original signal.
- BLC - ON / OFF - Backlight compensation is activated when shooting dark against a bright background. Typical application the entrance of a store or a space which has large windows outwards
- SHUTTER - AUTO (1/50 ... .1 / 10,000) - Adjustment shutter electronic that It allows the camera to adapt to different lighting conditions. By keeping a rule to AUTO, however, this parameter is used to force the electronic shutter to a default value in order to darken the image in case of strong lighting or make it brighter in dim light.

- FOCUS - AUTO / MANU - Allows you to choose the option to set automatic or manual focus.
- BRIGHT - 130 (60 ... 170) - Speaker on regulation of brightness picture allowing to correct any imperfect exposure situations.
- COLORSEL - AUTO / BLACK / COLOR - Select color management. As a rule, this adjustment is maintained on CAR and allows the camera to record color if the natural brightness and allows it to automatically switch to B / W at nightfall. E 'can, however, force the camera to an ever color camera (COLOR) or always in Black / Black (BLACK)
- MIRROR - ON / OFF - This function allows you to horizontally flip the image. It is generally used when the camera shoots a scene that is located behind the observer (Rear view)
- LENINIT - by selecting this option and pressing FOCUS + is initializes the management lens
- DEFAULT - by selecting this option and pressing FOCUS + are restored to factory settings if the changes made were not satisfactory.

Dome Settings

This section contains all the settings of the motion mechanism of the speed dome

DOME SETTINGS
AUTO INVERT ON
IDLE TIME / MIN 0
IDLE ACTIVE NO
ACTIVE No. REBOOT
RUN NO
RUN No.
RETURN

- INVERT AUTO - ON / OFF - also known as AUTOFLIP, this feature allows the camera to follow a movement in addition to its 90 ° vertical rotating on its axis automatically
- IDLE TIME / MIN - 0 ... 255 - E 'possible here to set an idle time after which, in the absence of commands, the camera will automatically start the action that will be indicated in the next programming step. The time of inactivity is in minutes. If you do not want the camera to perform automatic functions in the absence of commands leave this setting to 0.
- IDLE ACTIVE - NO / PRESET / SCAN / PATTERN / TOUR - Here you set which automatic action to take after the expected downtime. It's possible bring the camera on a main PRESET, initiate a right-left scan or start a PATTERN or TOUR cycling to different presets.
- ACTIVE NUMBER - defines which PRESET, SCAN, PATTERN or TOUR among those settable you are going to activate at the end of time to inactivity previously set
- REBOOT RUN - NO / PRESET / SCAN / PATTERN / TOUR / LAST STA - Defines an automatic action that the camera will turn after the start, for example following a mains failure. E 'can bring your camera on a main PRESET, start a scan right-left or start a PATTERN or TOUR cycling to different presets. It 'also available LAST STA option to resume the camera the last previous state shutdown.
- RUN NUMBER - defines which PRESET, SCAN, PATTERN or TOUR among those settable you are going to activate automatically at startup.

Function Settings

This section contains all the settings relating to automatic movements of the dome and is divided into 4 categories: PRESET, TOUR, and SCAN PATTERN

FUNCTION SETTINGS
PRESET SETUP ---> SETUP TOUR --->
SCAN SETUP ---> PATTERN SETUP --->
RETURN

First we must clarify the meaning of these four 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.
- **TOUR** - Also called CRUISE. Yes means the Automatic camera movement between different presets with a residence time on each of them programmable.
- **SCAN** - Yes It means the continuous movement RIGHT-LEFT between two end positions
- **PATTERN** - Similar to the TOUR. The camera, however, does not follow in sequence the various presets, but a custom continuous movement registered in the programming phase.

Let us now see in sequence how to program the different automatic movement functions:

PRESET SETTINGS

PRESET No. 1
Set Preset PRESET
CALL PRESET DELETE
RETURN

- PRESET No. - The PRESET number to be programmed (1 to 256)
- Set Preset - Used to set the PRESET. Position the camera and press IRIS + to save
- PRESET CALL - Call the preset selected by pressing FOCUS +
- PRESET DELETE - Deletes the selected preset.

You can set and recall presets without entering the setup menu via System presets (see above)

E 'possible to interrupt the automatic sequence at any time by imparting a manual command.

TOUR SETTINGS

TOUR No. 1
STAY DELAY 4
TOUR SPEED 63
TOUR SET
TOUR RUN
TOUR RETURN

- TOUR No. - The number of TOUR to be programmed (1 to 4). Each camera can store 4 different rapidly recallable tour sequences with the system presets
- STAY DELAY - 0-255 sec - E ' the time of stay in the screen of each preset
- TOUR SPEED - 0-63 - And 'the movement speed while running the TOUR
- TOUR SET - Sets the sequence TOUR. Each tour can contain up to 16 different presets. The picture shows 16 positions between which there moves with the joystick. In each position indicates the preset number to be displayed by editing with ZOOM +/-. Leave to 0 unused positions. Save with IRIS +
- TOUR RUN - Turn on the tour selected by pressing FOCUS +
- TOUR - Delete the selected tour TOURS can also be run without entering the configuration using the system presets (see above),

but they can only be programmed in this menu.

E 'possible to interrupt the automatic sequence at any time by imparting a manual command.

SCAN SETTINGS

SCAN No. 1
SCAN MODE <180
SCAN SPEED 55
START END postion
postion SCAN RUN
SCAN DELETE
RETURN

- No. SCAN - The SCAN number to be programmed (1 ... 4). Every camera can store 4 different sequences tour
- SCAN MODE (> 180 <180) - Indicates whether the scan that Yes program expected excursion greater than or less than 180 °. It allows the system to comprise a what direction to move the camera between the two limit switches
- SCAN SPEED - 0 ... 63 - The speed of movement during the scan
- START POSITION - Defines the beginning your scan limit. Position the camera and press IRIS + to save
- END POSITION - Defines the beginning your scan limit. Position the camera and press IRIS + to save. In this setting is precluded from vertical movement as the end point of scanning must be on the same axis as the starting point.
- SCAN RUN - Enables the selected SCAN pressing FOCUS +
- SCAN DEL - Delete the selected SCAN

Each camera allows to store up to 4 DX-SX scans, however, only the scan 1 and 2 may be run without accessing the configuration via the system presets (see above). Through the system presets you can also set the limit of the sequence SCAN 1. E 'you can interrupt the automatic sequence at any time by giving a manual control.

PATTERN SETTINGS

PATTERN No. RECORD NEW
PATTERN PATTERN RUN
PATTERN DELETE RETURN

- PATTERN No. - The number of PATTERN to be programmed (1-4). Every camera can store 4 different PATTERN
- RECORD NEW PATTERN - Perform a movement sequence consisting of positions and times as you like. Press IRIS + to save
- PATTERN RUN - Starts the selected Pattern premeno FOCUS +. The camera will trace the exact sequence of movements recorded.
- PATTERN OF - Delete Pattern recorded

Each camera allows to store up to 4 custom patterns, however, only the pattern 1 can be launched without accessing the configuration via the system presets (see above).

The programming of the pattern can be performed in this configuration menu.

E 'possible to interrupt the automatic sequence at any time by imparting a manual command.

System Settings

This section contains general settings of the camera and some administration tools

SYSTEM SETTINGS
SYSTEM INFORMATION
DISPLAY SETUP --->
CLEARANCE FUNCTION --->
FACTORY DEFAULT SYSTEM
REBOOT

- SYSTEM INFORMATION - This item summarizes the communication parameters of the camera
- DISPLAY SETUP - This section defines which data to expose in overlay image: DOME TITLE (camera name in the upper-left), DOME ID (top left camera number), DYNAMIC TITLE (Automatic Movement description being at the top right), PTZ TITLE (coordinates and zoom level bottom left)
- CLEARANCE FUNCTION - In this section it is possible to erase at once all the stored automatic sequence of PRESET, SCAN, and PATTERN TOUR
- FACTORY DEFAULT - Restore to factory default
- SYSTEM REBOOT - Restart System

Special functions

This section contains all the special features not included in other sections.

SPECIAL_FUNC MENU
IR SYSTEM SETUP --->
ON MOTION DETEC WDR
LEVEL ON
RETURN

- IR SYSTEM SETUP - This menu is available only on models with built-in infrared illuminator. The menu allows you to define switching illuminator (Automatic / always ON / OFF always), and the thresholds for switching on and off (IR ON / IR OFF)
- Other currently unused functions.