HT650PT10X

speco technologies

Product outline and Features Camera installation

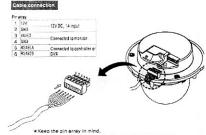
This camera can be controlled through the use of our RC-650 remote control or from most DVR's.

Tamper resistant and Weatherproof. 10X optical zoom plus 10X digital zoom capabilities.

- Modern & contemporary design
 Fast speed(Panning Max. 93 degree per second)
 64 PRESETS. Dwell time in each position can be selected
- 4) Remote control available(mode RC-650) or use RS-485 5) Compatible with various DVRs(PELCO-D Compatible)
- 6) Thermal sensor and cooling fan built-in
 7) Impact-resistant material (Aluminum & Poly Carbonate)
- 8) Up to 100X Zoom(Optical 10X, Digital 10X)
 9) ICR Day & Night feature

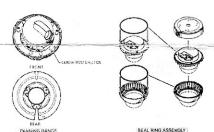
3. Cable

1. Installation and Connections

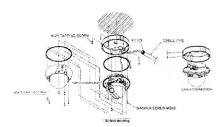


*Please refer to the above picture

First remove the white plastic shipping protection form the inside of the case allowing the camera to move freely



When you assemble the seal ring, pay attention to the leakage



CAMERA FRONT DIRECTION

- When you install the camera, you should install it after determining its forward direction.
- * Self Tapping screws are included, but if you want to install it on a concrete ceiling, you should use proper hardware.
- Securely attach the lower part of the base on the wall or ceiling. When installing outdoors attach the supplied rubber pad onto the lower part of the base so that no water may penetrate the screw holes and the cable
- 2) Connect the camera using the supplied terminal block Connect the camera using the supplied terminal block a) Connect the control unit via a twisted, 2-conductor line (maximum length 1200m) to the pin array 5(RS485A) and 6(RS485B). Connect all cameras in parallel to this 2-conductor control line.

 b) Feed the video signal at contact 3 via a shielded cable to the video input of the following unit (e.g. Monitor, camera switcher, video splitter).

Connect the shield to contact 4. With a cable length of more than 200m a video amplifier should be inserted between the camera and the cable to compensate for the line-level loss.

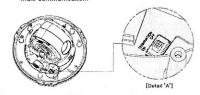
- (C) For power supply, connect a regulated 12V DC power supply unit with a permanent rating of 1A or greater to contact 1(12V DC) and the contact 2(ground).
- Attach the terminal block to the camera. As soon as the operating voltage is applied, the camera goes to its starting

- 4) The mid case must be placed on the lower part of the base so that the front arrow approximately points to the center of the surveillance area and the camera is capable of moving to the left and right in a uniform way. Place one of the supplied sealing rings between the mid case and the lower part of the base. Tightly attach the mid case with the three shorter M3 screws to the lower part.
- 5) Prior to further mounting make the adjustments according to before replacing the cover.

 6) Place the three silicon rings onto the six Torx screws.
- Lay the second seal ring between the mid case and the cover assembly and tightly attach the dome with the six longer M3 screws. A matching Torx wrench is supplied.

 Termination Switch
 Termination Switch: Used for RS-485 communication ON: Apply to terminal unit when communicating with PC or remote control in 1:1 or in multi-communication.

OFF: Apply to all the cameras oxcept terminal unit in multi-communication.



3. ID Setup

- Use it when you use many cameras or if you want to use a special camera ID.
- You can address up to 255 units.
- Optional remote control (model RC-650) can control up to 99

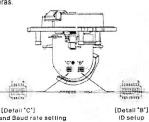


Table for car	able for camera ID							
Camera ID	Sw1	Sm2	S#3	Sw4	3w6	Sw6	Sw7	
1 1	ON	OFF	OFF	OFF	OFF	OFF	DFF	L
2	OFF	CN	OFF	OFF	OFF	OFF	OFF	Γ

Camerato	241	CHE	: 383	044	240	SHO	Un/	200
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	OFF	CN	OFF	OFF	OFF	OFF	OFF	OFF
3	ON	CN	OFF	OFF	OFF	OFF	DFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
5	ON	OFF	ON	CFF	OFF	OFF	OFF	OF
255				-				

Protocol and Baud rate setting

	2:-0.0	o Jens	Baud rate			Protocol	
1	Dip Sw2	Sw1	Sw2	Sw3	Sw4	Sw5	Sw6
43	2400bps	OFF	OFF	OFF	0FF	122723294	iozanie.
Baud	4800bps	ON	OFF	OFF	OFF		
rate	9600bps	OFF	ON	OFF	0FF		
	SK-P	1				OFF	0FF
Prolocal	Pelco D	1				ON	0-F
	Pelco P					OFF	ON

After setting above combination, turn off and on.

Specification and Dimension

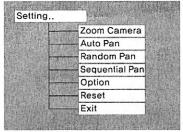
- Power : 12V DC Current Consumption : Max. 800mA
- Operation temp : 14° F ~ 122° F

- Operation temp: 14° F ~ 122° F
 Dimension: 26.50° x 5.28°(H)
 Weight: approx. 2.65 lbs
 Remote control: RS-485
 Data transmission speed: 9600/4800/2400 bps
 Camera ID setup: 1-255
 Moving angle: PAN: 0° ~ 350° Titt: 5° ~ 90°
 Moving speed: PAN: 9° /s-90° /s Titt: 9° /s ~ 66° /s Shifting speed between Preset positions
- Max. Position Memory: 64 Points
 Formula for position operating:
- 1. Auto Pan. (approx. 20° /s)
- Sequential Pan. 3. Random Pan
- Option: Small sized remote control(RC-650)
- Dimension

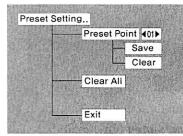




OSD menu configuration

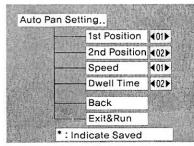


Calling out main menu To enter OSD menu, press the button "Save" + "95" + "ENTER" (PELCO-D) or press "ENTER" key(SK-S),



Preset Save

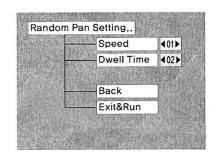
Menu	Function	
D4	(1~32) + Preset Save : Pelco-D	
Preset	(1~64) + Preset Save : SK-P	
Preset point	Select preset number	
Save	Save preset	
Clear	Delete preset	
Clear All	Erase all presets	
Exit	Escape this menu	



▶ Auto Pan

To make the camera panning automatically at fixed speed

1st Position	Set start preset point(1~64 Point)		
2nd Position	Set end preset point(1~64 Point)		
Speed	Set moving speed(1~10 Speed)		
Dwell Time	Set staying time(2~60 second)		
Back	Save the setting & move to above menu		
Exit & Run	Escape this menu & execute "		



200 New Highway Amityville, NY 11701

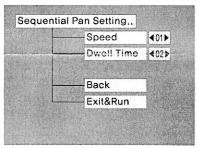
Toll Free: 1-800-645-5516 www.specotech.com

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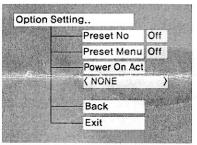
► Random Pan
To move he camera to the memorized positions randomly.

Speed	Set moving speed.(1~10 Speed)		
Dwell Time	Set staying time(2~60 sec)		
Back	Save the setting & move to above menu		
Exit & Run	Escape this menu & execute "Random Pan"		



► Sequential Pan
To move the camera to the memorized positions one by

Speed	Set moving speed.(1~10 Speed)		
Dwell Time	Set staying time(2~60 sec)		
Back	Save the setting & move to above menu		
Exit & Run	Escape this menu & execute "Sequential Pan"		



► Option

Preset No	Set the displ	ay of preset number(On/Off)	
Preset Menu		ay of preset setting menu ved" / ON : "Calling out menu"	
	Set the fund on.	tion to operate when the camera turns	
Power -	NONE	Stand by without movement	
	SEQ	Operate by SEQUENTIAL PAN	
	RANDOM	Operate by RANDOM PAN	
Oliza	AUTO PAN	Operate by AUTO PAN	
LAST ACTION	NAME OF TAXABLE PARTY.	Operate the last one among above three action	
Back	Save the setting & move to above menu		
Exit	Escape this menu		

SPEC	O TECH 1	
	CAMERA TITLE	
	FOCUS	
	SHUTTER	
H. H	AUTO GAIN	
- X	SLC	
	DAY/NIGHT	
	DZOOM	
	NEGATIVE	
6 I I I I I	REVERSE	
	BRIGHTNESS	
	DETAIL	
- Harris II	OSD	
	сомм.	
	ALARM	
- I	Z-SPEED	
·	F-DETAIL	F1000015
	SYNC	
- L	DEFAULT	
	Exit	

▶ Zoom Camera setup configuration

Sub menu	Select	ECO TECH Explanation
CAMERA	Off	
TITLE	On	No choice
1934	Auto	Focus is controlled automatically
FOCUS	Push	Focus is automatically adjusted just once, after zoom position is changed.
	Manual	Focus is controlled manually
SHUTTER	Auto	Shutter speed is controlled automatically
SHOTTER	Manual	Shutter speed is controlled manually
	Low	18dB
AUTO GAIN	Middle	23dB
AUTO GAIN	High	27dB
	Off	Automatic Gain Control "Off"
	Off	Speco Light Compensation "Off"
	Low	Speco Light Compensation "On"
SLC	Middle High	and set the level of BLC. 1X: Slightly improves the BLC 3X: Substantially improves the BLC
100 TO 10	ATW	Auto Tracking White balance
	Push	Faster white balance than ATW
	AWC	Auto White balance Control
WHITE BAL.	3,200°K	Fix color temperature as 3,200° K
	5,600°K	Fix color temperature as 5,600° K
	Manual	White balance controlled manually (Values of red and blue are controllable)
	On	Color mode
	Off	B/W mode
DAY/ NIGHT	Auto	The camera automatically detects lighting conditions and selects the mode accordingly.
	Off	Digital zoom "Off"
DZOOM	On	Digital zoom limit selectable (X2, X4, X6, X8, X10)
	Off	Normal image
NEGATIVE	On	image color is
	OII	reversed negatively
חבו יבחפב	Off	Normal image
REVERSE	On	Left and right are reversed
BRIGHTNESS		Brightness level adjustable
DETAIL		Sharpness level adjustable
COMM.	SET	S
ALARM	Off	No choice
, sara siri	On	140 0110106
ZOOM SPEED		Zoom speed selectable (X1 ~ X3)
FOCUS DETA	L	Focus adjustable by detail (X1~X3)
SYNC		INT : Internal Sync.
DEFAULT		Return all values to the
CVIT		factory set Exit menu
EXIT		

▶ Specification

Туре	High resolution Color Dome camera with Motorized Zoon Lens
Image Sensor	1/4" COLOR SONY SUPER HAD CCD
Effective Pixel	768(H) x 494(V)
TV Type	NTSC
Scanning system	2:1 Interlace
Sync. system	Internal
Scan.Freq.(HOR.)	15.734 KHz
Scan.Freq.(VERT.)	59.94 Hz
Resolution	580 lines resolution(B/W) 560 lines resolution(Color)
Video output	1.0 Vp-p (Sync. Negative) with 75ΩTermination
S/N Ratio	45dB or More(AGC OFF)
Min. Illumination	0.1Lux
Gamma	r=0.45
Shutter Speed	Auto : 1/60 ~ 1/10,000sec Manual : 1/60, FLK, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
White Balance	ATW / AWC / Manual[R,B]/ 3,200° K / 5,600° K
OSD	Yes
ZOOM	Optical 10X, Digital 10X
FOCAL Length	f= 3.8(W) ~ 38.0(T)mm / F 1.8(W) ~ F2.8(T)
Angle of view (Diagonal)	51.2° (Wide End), 5.58° (Tele End)
Min. Working Distance	0.35M (Wide End), 0.8M (Tele End)
Moving Speed	Pan: 9°/s ~ 90°/s, Tilt: 9°/s ~66°/s
Moving Angle	Pan: 0° ~ 350°, Tilt: 5° ~90°
Communication	RS-485
Camera ID Setup	1~255 Selectable
Protocol	Pelco-D, Pelco-P, SK-P,
Baud rate	2400bps, 4800bps, 9600bps
Power Supply	Regulated 12V DC
Consumption Current	Max.800mA
Operation Temp	14° F to 122° F
Dimension	Ø 5.9"×53"(H)
Weight	2.65 lbs

* The specification is subject to change without any prior notice to improve the quality.