

**OVERVIEW LTD**

# Sparklette Speed Dome

Setup and Operation Manual V1.0

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## Specifications

### Drive Capabilities

Number of Presets:	8 (user configurable)
Number of Preset Tours:	2 (user configurable)
Preset Accuracy:	0.1°
Tilt Range:	-2° (horizontal) to 90° (vertical) with mechanical bottom flip
Joystick Control:	Variable selectable speed ranges for precision control Variable speed adjustment with zoom depth
Pan speed:	0.2°/s to 120°/s
Tilt speed:	0.2°/s to 120°/s
Preset Moves:	Pan speed: 200°/s Tilt speed: 200°/s
Power Fail:	Last action, preset, tour or joystick location restoration on power up
Alarm Inputs:	6 alarm inputs via Overview Alarm Card
Alarm Output:	Relay output from Overview Alarm Card

### Video System

Privacy Zones:	4
Video Format:	PAL / NTSC
Optical Zoom:	18x – NB other zoom ratios available
Digital Zoom:	10x
Scanning System:	2:1 Interlace
Image Sensor:	1/4 inch interline transfer CCD
Video Output:	Variable 1Vp-p to 2Vp-p, 75 ohms (8 steps)

### Controller Protocols

#### **RS-485:**

Pelco P  
Pelco D  
Dennard  
VCL

#### **Co-axial:**

Pelco Coaxitron™  
BBV

### Mechanical Features

IP Rating:	IP67
Housing Construction:	Vandal resistant die-cast aluminium
Bubble Construction:	Vandal resistant polycarbonate
Internal Mechanism:	Die-cast aluminium
Housing Finish:	Grey powder coat
Weight:	5.5 kg
Dimensions:	207 mm (diameter hemisphere) x 250 mm (height)

### Electrical System

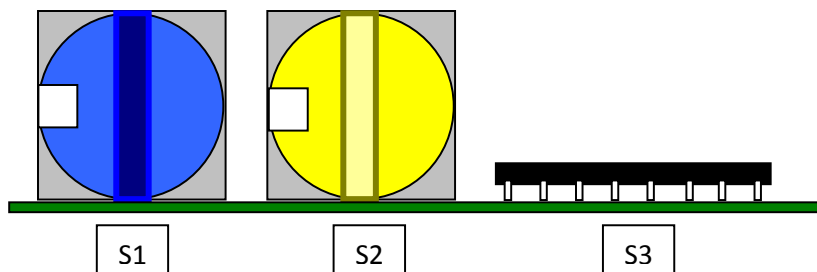
Power Supply:	18-28 VAC/DC
Input Power:	10 VA nominal
Surge Protection:	Built in surge protection
Limited lightning protection	

### Environmental

Min temperature:	-5°C sustained
Max temperature:	45°C peak, 40°C sustained

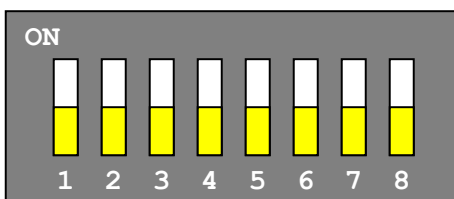
### Address Switch Settings and Controller Protocols

The diagram below shows the switches used to setup both the control protocol and camera ID of the unit. The two rotary hex switches, S1 and S2, control the camera ID and the eight-way dip switch, S3, is used to set the control protocol.



#### Control Protocol

The control protocol is setup using dip switches 1, 2, and 3 on switch S3, shown below. Dip switch 8 controls whether RS485 termination is on or off.



Protocol	Dip Switch 1	Dip Switch 2	Dip Switch 3
Dennard RS485 / OCP RS485	Off	Off	Off
Pelco P 9600	ON	Off	Off
Pelco P 4800	Off	ON	Off
Pelco D 2400	ON	ON	Off
VCL RS485	Off	Off	ON
BBV UTC	ON	Off	ON
Pelco Coaxitron	Off	ON	ON

#### Camera ID

The camera ID is used to differentiate units on the same RS485 bus. There are 32 camera ID's available. The settings for each camera ID is shown below.

		S2															
		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
S1	0	N/A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	2	32															

## Menu Structure

### Introduction and Control

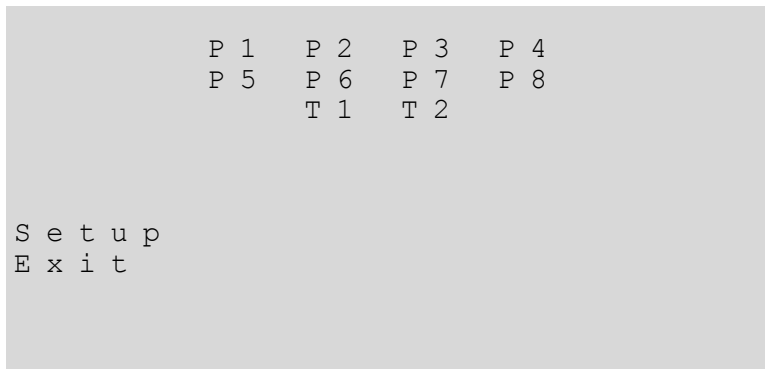
A simple menu structure is available that allows all features of the dome to be configured appropriately. All the settings are protected by use of a pin number. The menus have a two button control interface, button one enters and exits the menus and button selects the currently highlighted menu option. The button mapping for the supported protocols are shown below.

Protocol	Menu On/Off	Menu Select
Dennard RS485 / OCP RS485	Go to Preset 95	Go to Preset 1
Pelco P 9600	Go to Preset 95	Open Iris
Pelco P 4800	Go to Preset 95	Open Iris
Pelco D 2400	Go to Preset 95	Open Iris
VCL RS485	Go to Preset 95	Go to Preset 1
BBV 400	# + 1	1
BBV 1000	Shift + Wash	Preset + 1
Pelco Coaxitron	Go to Preset 95	Open Iris

## Interface

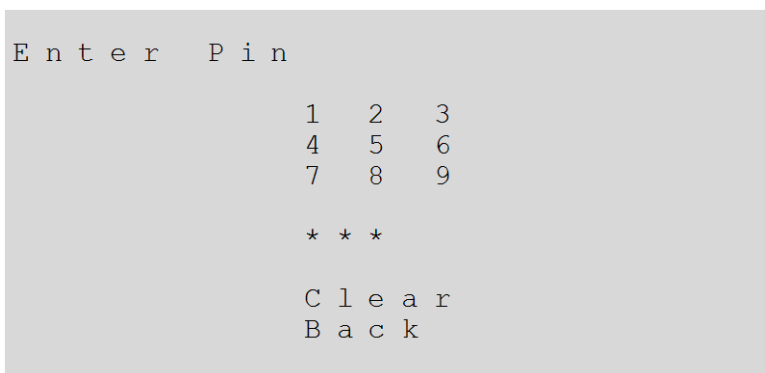
Words in **Bold** refer to items in the menu currently being described and words in *Italics* refer to other menus within the menu structure.

### Run Menu



- **P1** to **P8** will exit the menu structure and go to the appropriately numbered preset position if it has been stored.
- **T1** and **T2** will exit the menu structure and start the appropriately numbered tour if it has been set up.
- **Setup** will take the user to the *Pin Menu*.
- **Exit** will exit the menu structure and return to PTZ control. This has the same effect as pressing the Menu Enter/Exit key whilst in the menu structure.

### Pin Menu



- Enter the 5 digit pin by pressing **1** to **9** as appropriate.
- Each time a digit is entered a ★ will be displayed.
- If the correct 5 digits have been entered the user will be taken to the *Setup Menu* otherwise the *Pin Menu* will be redisplayed.
- **Clear** redispays the *Pin Menu* so that the pin number can be reentered.
- **Back** takes the user back to the *Run Menu*.
- The override pin is 15981

## Setup Menu

```

P r e s e t s   a n d   T o u r s
P r i v a c y   Z o n e s
D i g i t a l   Z o o m           -   O f f
V i d e o   G a i n             -   1
T i m e o u t   T i m e         -   O f f
T i m e o u t   A c t i o n     -   P 1
L a n g u a g e                 -   E n g
R e l o a d   U n i t   D e f a u l t s
R e b o o t   U n i t
C h a n g e   P i n
B a c k

```

- **Presets and Tours** takes the user to the *Presets and Tours Menu* where presets and tours can be configured.
- **Privacy Zones** takes the user to the *Privacy Zones Menu* where privacy zones can be configured.
- **Digital Zoom** toggles between **On** and **Off**.
- **Video Gain** switches between **1** and **8** to vary the peak to peak voltage of the video output.
- **Timeout Time** switches between **Off** and **10** to **60** seconds in 10 second increments to set after what time of inactivity the **Timeout Action** is executed.
- **Timeout Action** toggles between **P1** and **T1**.
- **Language** switches between the available languages, currently English (**Eng**) is the only language.
- **Reload Unit Defaults** resets the unit to its original configuration – **NB** this will delete all presets and tours that have been set up.
- **Reboot Unit** power cycles the unit.
- **Change Pin** takes the user to the *Change Pin Menu*.
- **Back** takes the user to the *Run Menu*.

## Presets and Tours Menu

```

- P 1 :      S t o r e           D e l e t e
- P 2 :      S t o r e           D e l e t e
- P 3 :      S t o r e           D e l e t e
- P 4 :      S t o r e           D e l e t e
+ P 5 :      S t o r e           D e l e t e
- P 6 :      S t o r e           D e l e t e
- P 7 :      S t o r e           D e l e t e
+ P 8 :      S t o r e           D e l e t e
+ T 1 :      S e t u p           D e l e t e
- T 2 :      S e t u p           D e l e t e
B a c k

```

- A **+** means that the preset or tour is stored/set up a **-** means that it is not.
- **Store** will save the current PTZ location to the appropriate preset **P1** to **P8**.
- **Setup** will take the user to the *Tour Setup Menu*.
- **Delete** will delete the currently selected preset or tour.
- **Back** takes the user to the *Setup Menu*.

## Tour Setup Menu

```

T o u r   1   P o s   P a u s e   S p e e d
P o s   A :   P 2     L o n g     F a s t
P o s   B :   P 5     M e d .     S l o w
P o s   C :   P 1     S h o r t    N o r m
P o s   D :   P 3     L o n g     N o r m
P o s   E :   P 8     L o n g     S l o w
P o s   F :   O f f    O f f      O f f
P o s   G :   P 4     S h o r t    F a s t
P o s   H :   P 7     M e d .     S l o w
A c c e p t
B a c k

```

- There are eight positions **POS A** to **POS H** available in each tour. Each position in a tour can be assigned any or none of the eight presets **P1** to **P8**, as well as a choice of three **Pause** times and three travel **Speeds**.
- Items under the **Pause** header switch between **Short**, **Med.** and **Long** which equates to a pause time at that preset of 2, 6 and 10 seconds respectively.
- Items under the **Speed** header switch between **Slow**, **Norm** and **Fast** which equates to a travel time between presets of 1, 5 and 10 seconds.
- **Accept** saves any changes made to the currently selected tour and returns the user to the *Setup Menu*.
- **Back** returns the user to the *Setup Menu* without saving any changes made.

## Privacy Zones Menu

```

- Z 1 :   S t o r e     D e l e t e
- Z 2 :   S t o r e     D e l e t e
+ Z 3 :   S t o r e     D e l e t e
- Z 4 :   S t o r e     D e l e t e

B a c k

```

- A **+** means that the privacy zone is set up a **-** means that it is not.
- **Store** will set a privacy zone up on the current PTZ view.
- **Delete** will delete the privacy zone if it has been set up.
- **Back** will return the user to the *Setup Menu*.

## Change Pin Menu

```
E n t e r   O l d   P i n

      1   2   3
      4   5   6
      7   8   9

      * * *

      C l e a r
      B a c k
```

```
E n t e r   N e w   P i n

      1   2   3
      4   5   6
      7   8   9

      * * *

      C l e a r
      B a c k
```

```
C o n f i r m   N e w   P i n

      1   2   3
      4   5   6
      7   8   9

      * * *

      C l e a r
      B a c k
```

- These menus operate the same way as the *Pin Menu*.
- The current or override pin needs to be entered first followed by the new pin and then confirmation of the new pin. Once confirmation has occurred the pin is changed
- **Clear** resets the current screen so that a pin can be reentered
- **Back** takes the user back to the previous menu.