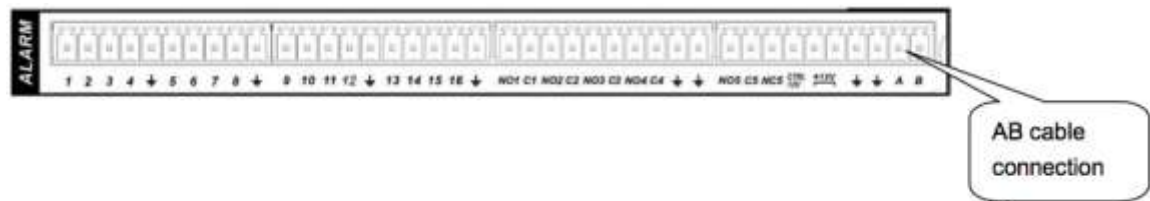


## Pelco-D PTZ Protocol (Pelco-D): Swing, Pattern, Tour Setup Guide[ICR-100x, ICR-2700N, ICR-3600N]

*This guide explains in depth how to properly utilize the Pelco-D/P series protocol, which is available on the above listed models. With this protocol enabled, you can setup automated tours and gain full control over the cameras OSD.*

Step 1: This guide assumes you have properly made all physical connections between camera and DVR (RS-485 + and – leads terminate at the rear of the DVR on the phoenix terminals labeled A and B, respectively. Refer to the image below for the location of the terminals at the rear, right hand corner of the recorder.



Step 2: You will need to program the DVRs PTZ menu (Main Menu→Settings→PTZ) with the communication settings for the camera that is to be controlled. The defaulted settings are:

Channel:	(The video input of the DVR where the PTZ video output terminates)
Address:	1
Baud Rate:	2400
Protocol:	<b>Pelco-D</b>
Data Bits:	8
Stop Bits:	1
Parity:	None

Step 3: Next, it is recommended to test communication by attempting to send drive commands to the PTZ. You can do so by right clicking the PTZ video window and choosing 'Pan/Tilt/Zoom' from the context menu. You should see a menu as below:



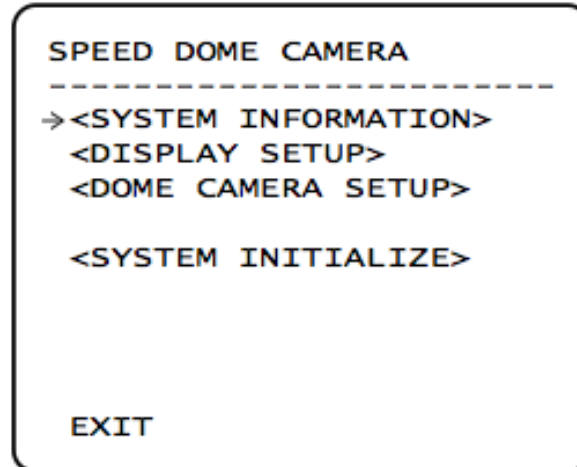
*The PTZ control UI at the local DVR interface.*

Step 4: Once communication has been verified, we can now access the cameras OSD by calling Preset 95 from the next page of the PTZ control UI. Press 'Page Switch' to access the next page of control options. Refer to the image as below:



*The Function Recall section of the PTZ submenu. Input 95 here in the number field, and click Preset to call up the OSD of the camera itself. Afterwards, hit 'Page Switch' until you return to the main PTZ control UI in order to navigate the cameras OSD. Note: you can access the cameras OSD from the DVRs web UI as well as the PSS client software by calling Preset 95 as well!*

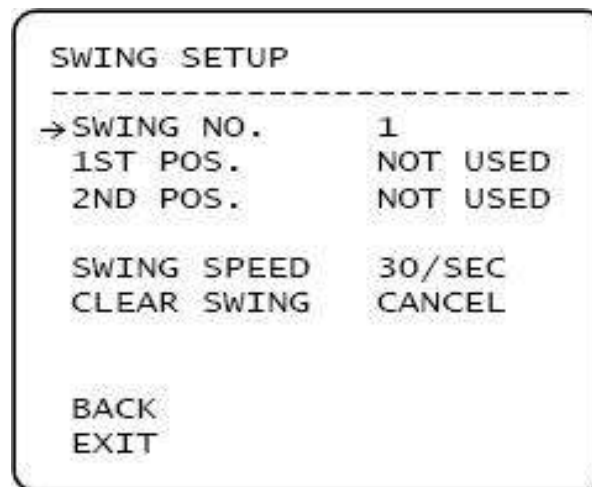
Step 5: Once you have the cameras OSD on screen, you are able to navigate the menus by using the primary PTZ control page. The options of the initial OSD menu are displayed below.



*Using Tilt Up/Down, you can navigate the available options. Pressing the Focus + (Near) key enters a submenu, while pressing the Focus – (Far) key returns to the previous menu.*

Step 6: Enter the 'Dome Camera Setup' menu by using the PTZ controls (tilt down to the option, and press Focus +). You will see the following automated tour options available: Swing, Group, and Pattern.

Step 7: The 'Swing' setup menu allows you to set a left and right preset, which the camera block will continually pan between. Refer to the menu below:



**Swing No.** - Refers to the swing number you are setting. Up to 8 different swings can be configured. Use presets (starting from the first swing preset) 141 - 148.

**1st Pos.** - Press Focus Near to set a preset for your starting position. This preset has to be between 1 - 128 which you need to assign before setting up the swing.

**2nd Pos.** - Press Focus Near to set a preset for your ending position. See above description for more information.

**Swing Speed** - Varies the speed in which the swing operates at. It ranges from 1/Sec to 180/Sec. The lower it goes, the slower the speed

gets.

**Clear Swing** - Deletes the current swing you have selected from the beginning.

Step 8: The 'Group' setup menu allows you to setup what you may more commonly know as a 'Tour'. It is a group of presets that the camera will recall in series. Refer to the menu below:

```

GROUP SETUP
-----
->GROUP NO.      1
                UNDEFINED
CLEAR GROUP      CANCEL
<EDIT GROUP>

BACK
EXIT
  
```

Select 'Edit Group' and press Focus + in order to adjust the functions in the group.

```

EDIT GROUP 1
-----
NO ACTION ### DWELL OPT
-----
-> 1 PRESET    1 00:03 360
   2 NONE
   3 NONE
   4 NONE
   5 NONE
-----
BACK      [NEAR:EDIT ACT]
CANCEL    [FAR :EDIT END]
  
```

**NO :** Number of step in the given group.

**Action:** Type of operations the step will be performing..

**###:** The number of the above Action

**Dwell :** How long the current preset will stay at that position.

**Opt:** Depending on which operation you have set in action, the option field displays differently. If the action is set to a preset, then it ranges the speed for it. If the action is a pattern/swing, then it ranges on how many times it will run.

**# 1 - 5 :** The numbers 1 through 5 indicate the "steps" that make up the

group. To make changes in to each "step", use Focus Near to start the editing process and Focus Far to finish it. Move the joystick Left/Right to move the cursor to the next field. Move the joystick Up/Down to change the field's value.

Step 9: The 'Pattern' setup menu is a manually recorded patrol, where you press 'Start', manually PTZ the camera, and then 'Stop' afterwards to commit the entire sequence to memory. Refer to the Pattern Setup menu below:

PATTERN SETUP

---

→ PATTERN NO.      1

UNDEFINED

CLR PATTERN      CANCEL

<EDIT PATTERN>

BACK

EXIT

**Pattern No:** Pattern number, which ranges from 1 to 4. Up to four different patterns can be configured. Use presets (starting from the first pattern preset) 131 - 134.

**CLR Pattern:** Delete the pattern number that's currently selected. Edit Pattern: Takes you to the pattern editing screen. In the next menu, you will record the pattern that you chose from in the first step.

**Edit Pattern:** Screen Start by moving the camera to a start position where you want to begin the pattern at. Refer to the 'Edit Pattern' submenu below:

EDIT PATTERN 1

[NEAR:SAVE    /FAR:DELETE]

0/0/x1/N

Once ready, use Focus Near to start recording your camera's movement yet be aware of the progression bar at the top. When the progression bar fills itself to the last block, it indicates that the recording for the pattern is full. When finished with recording, use Focus Near to save it or Focus Far to delete it.

#### Appendix

Open Menu:	Preset 95
Start Pattern #1-#4:	Preset 131-134
Start Swing #1-#8:	Preset 141-148
Start Group #1-#8:	Preset 151-158