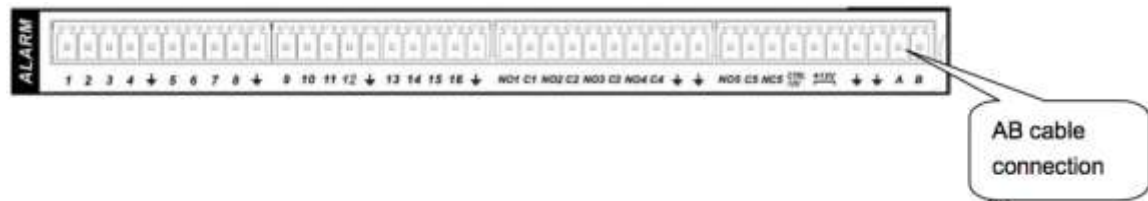


ICRealtime PTZ Protocol (ICR-SD): Cruise, Scan, Pattern Setup[PTZ2300E7, PTZ2300SIR, PTZ3660SIR, PTZ230X, PTZ5323IR, PTZX80WDR, PTZWDRFM, ICIP Series PTZs]

This guide explains in depth how to properly utilize the ICR-SD series protocol, which is available on the above listed models. With this protocol enabled, you can quickly and easily setup automated tours, utilize the intelligent trace feature, as well as 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 A and B 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: For the analog series of PTZs, 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:	9600
Protocol:	ICR-SD1
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:



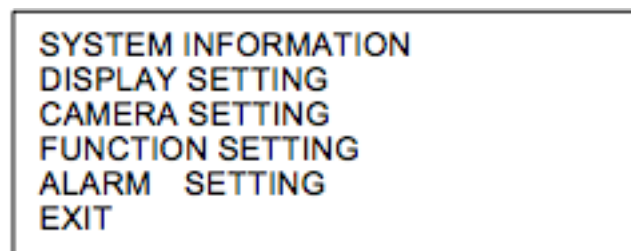
The PTZ control UI at the local DVR interface.

Step 4: Once communication has been verified, we can now access the 'OSD Control' page of the PTZ submenu by clicking page switch, until we are on the 'Menu Control' page. Refer to the image as below:

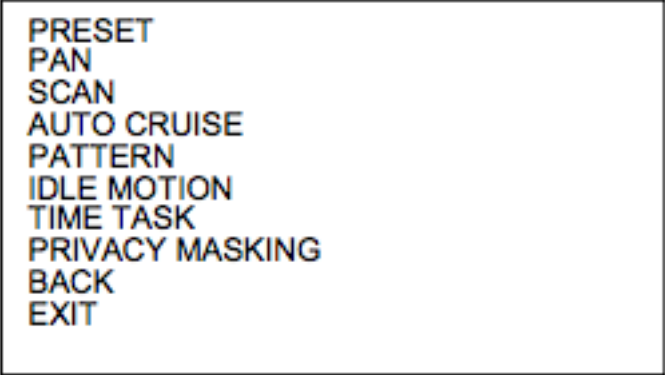


The Menu Control page of the PTZ control UI. Please note this control menu is also available on our PSS Software on the 'PTZ Advanced Tab', by clicking the 'Aux' button, and then 'Menu Control'.

Step 5: To access the OSD of the camera, hit the 'Enter Menu' key. You should see the text of the camera's main OSD menu as below:



Step 6: You can use the Up/Down/Left/Right keys to navigate around the camera's OSD. You may also enter a menu by pressing the 'Enter' key (*not Enter Menu – this only pulls up the OSD*). To configure any of the automated tours, select the 'Function Setting' menu, and click the 'Enter' button. You should see a menu as below:

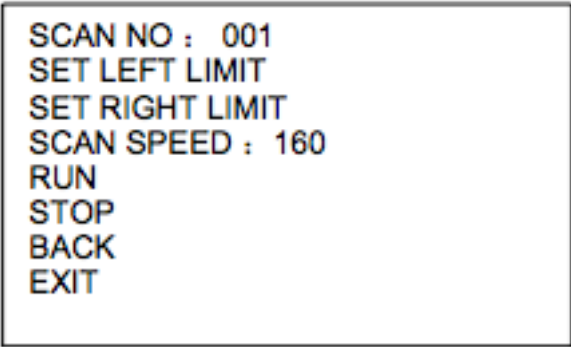


A screenshot of a menu titled 'PRESET' with the following options listed vertically: PAN, SCAN, AUTO CRUISE, PATTERN, IDLE MOTION, TIME TASK, PRIVACY MASKING, BACK, and EXIT.

Step 7: The 'Preset' menu allows you to record specific PTZ coordinates as a 'Preset' location. You will need to configure 'Presets' if you plan to create an 'Auto Cruise'.

Step 8: The 'Pan' menu allows you to create and configure an elementary 'Auto Pan', where the camera spins continually counterclockwise.

Step 9: The 'Scan' menu allows you set a left and right boundary, which the camera block will continually pan between. Refer to the menu below:



A screenshot of a menu titled 'SCAN' with the following options listed vertically: SCAN NO : 001, SET LEFT LIMIT, SET RIGHT LIMIT, SCAN SPEED : 160, RUN, STOP, BACK, and EXIT.

The 'Scan' menu of ICR-SD enabled PTZs. Configure the scan boundaries by moving the PTZ camera to the furthest right position of your scan, and click 'Enter' on 'Set Left Limit'. Next, move the PTZ camera to the furthest right position of your scan and click 'Enter' on 'Set Right Limit'. Test your scan by selecting 'Run' to ensure proper orientation.

Step 10: The 'Auto Cruise' menu is 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:

```

CRUISE NO:      : 001
CRUISE SETTING
DELETE CRUISE
RUN
STOP
BACK
EXIT

```

The 'Cruise' menu of the PTZ. You will need to enter the 'Cruise Setting' menu to actually define the presets, dwell interval, and speed values for the 'Cruise'. See below

NO	PRESET	DWELL	SPEED
01	000	005	013
02	000	005	013
03	000	005	013
...	...	...	...
32	000	005	013

The 'Cruise Setting' submenu. Use your 'Enter' key to edit any numbered step of the Cruise. Use the left and right keys to toggle between Preset, Dwell, and Speed options, while using up and down to change the values for each. Preset is the numbered preset defined in the 'Preset' menu, Dwell is the duration in seconds that the cruise will pause at this preset, and Speed is the speed value (from 1-16, 1 being slowest) of which the camera will move to the next preset.

Step 11: The 'Pattern' menu is the last automated function. A Pattern is a manually recorded patrol, where you press 'Start', manually PTZ the camera, and then 'Stop' afterwards to commit the entire sequence to memory.

```

PATTERN NO: 001
PROGRAM START
PROGRAM STOP
RUN
STOP
BACK
EXIT

```

The 'Pattern' submenu. Navigate to 'Program Start' and press Enter, in order to start the Pattern recording. Note that as soon as you start the program, the pattern records every delay, or PTZ gesture exactly as you create it. Once finished, navigate to 'Program End' and press Enter to stop the pattern recording.

Appendix

For users controlling the camera via the Pelco-D or Pelco-P protocol, you can use the following presets to perform the same operations:

Open Menu:	Preset 95
Start Pattern:	Preset 24
Start Scan:	Preset 29
Stop Scan/Pattern:	Preset 30
Set Scan Left Limit:	Preset 26
Set Scan Right Limit:	Preset 27
Start Tour:	Preset 25