



**ASCENDENT**  
**TECHNOLOGY GROUP**



**FLEX-37X-IR**

**User's Guide**

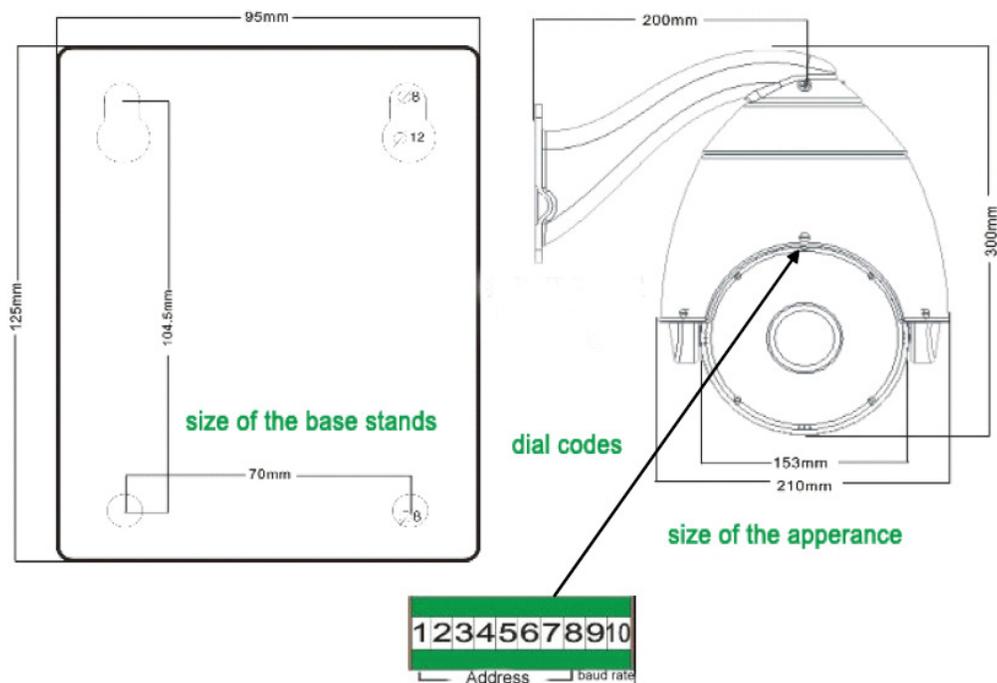


## Thank you for choosing Ascendent's FLEX series PTZ camera.

Please read this manual carefully before you begin using your PTZ and retain it for future reference. Always refer to this manual before attempting to configure your PTZ camera.

### Features:

- Pan Speed:  $0.1^{\circ}\sim 220^{\circ}/\text{sec}$
- Tilt Speed:  $0.1^{\circ}\sim 160^{\circ}/\text{sec}$
- 128 preset positions
- 2 scan modes
- 4 cruise modes
- 2 pattern scan routes
- 1 alarm input, 1 alarm auxiliary switch output (optional)
- RS485 communication, auto identify protocol as Pelco D/P
- English/Chinese OSD menu
- Built-in idle action
- Display coordinate location and zoom multiples
- Waterproof: IP66
- Built-in temperature control system



## Binary Code List

Binary	Add	Binary	Add	Binary	Add	Binary	Add
0000000	0	11110000	15	01111000	30	10110100	45
10000000	1	00001000	16	11111000	31	01110100	46
01000000	2	10001000	17	00000100	32	11110100	47
11000000	3	01001000	18	10000100	33	00001100	48
00100000	4	11001000	19	01000100	34	10001100	49
10100000	5	00101000	20	11000100	35	01001100	50
01100000	6	10101000	21	00100100	36	11001100	51
11100000	7	01101000	22	10100100	37	00101100	52
00010000	8	11101000	23	01100100	38	10101100	53
10010000	9	00011000	24	11100100	39	01101100	54
01010000	10	10011000	25	00010100	40	11101100	55
11010000	11	01011000	26	10010100	41	00011100	56
00110000	12	11011000	27	01010100	42	10011100	57
10110000	13	00111000	28	11010100	43	01011100	58
01110000	14	10111000	29	00110100	44	11011100	59

**The 9~10 digits of the dial codes are used to set the baud rate. You can choose 2400bps / 4800bps / 9600bps /19200bps.**

Set both "9" and "10" to be "ON": the value is "1", both "OFF": the value is "0"

Dial codes	2400 bps	4800 bps	9600 bps	19200 bps
No. 9	OFF	ON	OFF	ON
No. 10	OFF	OFF	ON	ON

### Baud rate and dial codes switch matching sheet

Please set this baud rate according to the communication baud rate of any controlling equipment.

## Camera Setup

Install PTZ camera to a secure place ensuring no movement. Connect the BNC video output to a monitor or DVR. Connect the RS485 control to a joystick keyboard or other controlling device. Lastly, connect the 12VDC/5A power supply to the PTZ camera. The camera will now power up. Please wait 15 seconds before attempting to control the camera so it will finish its power up sequence.

## OSD Programming

When the camera is first powered up the basic information will display. To change these settings you will need to access the on screen display (OSD) programming.

Enter the main menu: call Preset 95

Navigate the OSD: Joystick control up, down, left and right

Select: Iris open

Return: Iris close

## Function setting

*Note: commands will differ depending on equipment being used to control your PTZ camera. The following commands are just one example.*

### Set/Call preset positions:

Presets will set/call the camera positions through controlling equipment, then save these settings. This machine can set 128 preset positions.

### To set a preset position:

- a. Position camera to the desired position to set as a preset.
- b. Press "Set"
- c. Enter a number "1"
- d. Press "enter" to save the setting

### Call preset position

- a. Press the key "call"
- b. Enter a number "1"
- c. Press "enter"

### Call/Delete automatic cruise route

Automatic cruise route allows you to make the camera automatically cruise a given

route. The camera will auto scan according to your set order. This PTZ can set 8 cruise routes with a maximum of 16 preset positions per route.

### **Call automatic cruise route**

Control the machine through joystick keyboard or DVR. Calling preset 41 will make the camera execute cruise route No. 1. Calling preset 42 will make the camera execute the cruise route No. 2.

For example: use a controlling keyboard to call cruise route No. 2.

- a. Press "call"
- b. Enter number "42"
- c. Press "enter"

### **Delete the automatic cruise route**

This will delete all preset positions in the corresponding cruise route.

Operating method: call preset 41 with joystick keyboard/DVR to delete preset 1 cruise route; all preset 42 with joystick keyboard/DVR to delete preset 2 cruise route

- a. Press "set"
- b. Enter number "43"
- c. Press the key "enter" to make your order working

### **Preset positions number of cruise route, and calling / delete orders**

**NOTE:** If the preset positions appear to deviate, it's probably because of the machine doing an auto cruise for a long time. In this case, please call preset 34 to go back to the standard state, then you can set every function again.

### **Start auto scanning**

Use controlling equipment. Call preset 38. Auto scanning function will continue to rotate 360°.

- a. Press "call"
- b. Enter number "38"
- c. Press "enter"

### **Setting horizontal auto scanning speed**

You can select 4 speeds when auto scanning. Use controlling keyboard or DVR to call preset 64, it's rotating speed is 40°/sec. Call preset 63, it's rotating speed is 15°/sec.

<b>Rotating speed</b>	<b>Setting order</b>	<b>Rotating speed</b>	<b>Setting order</b>
6°/sec	set the NO.61 preset position	9°/sec	set the NO.62 preset position
15°/sec	set the NO.63 preset position	40°/sec	set the NO.64 preset position

## **Reset factory settings**

To restore your PTZ to factory defaults call preset 40.

- a. Press "set"
- b. Enter number "40"
- c. Press "enter"

## **Camera menu setting**

### **Basic operation**

- a. Using controlling keyboard / DVR, press "iris" to open main menu
- b. Using controlling keyboard / DVR, press "zoom" to select
- c. Using controlling keyboard / DVR, press "focus" to select
- d. Factory settings: focus mode is "MANUAL", this means when it zooms, it will auto focus, and when it stops zooming, the focus locks.

### **Menu introduction**

Press "aperture" / "iris" to open main menu, you will see menu:

CAMERA ID  
ID DISPLAY : ON/OFF  
FOCUS : MANUAL/AUTO  
ZOOM START : 01  
ZOOM END : 30  
BLC : ON/OFF  
RESET

### **Menu setting**

MENU-----(enter the main menu)

- a. CAMERA ID : 000 : (the ID number of this machine is "000~255")
- b. ID DISPLAY : ON/OFF : ("ON" will display ID number, "OFF" will not display ID number)
- c. FOCUS : MANUAL/AUTO : (two focus modes)
- d. ZOOM START : 01 : (zoom starting value) factory default is 1X, if you change this value to be "5", then the zoom starting value of this machine will change to be 5X
- e. ZOOM END : 30 : (zoom ending value) factory default is 30X, if you change this value to be "20", then the zoom ending value of this machine will change to be 20X
- f. BLC : ON/OFF : (back light compensation) open / close
- g. RESET : (restore to factory settings)