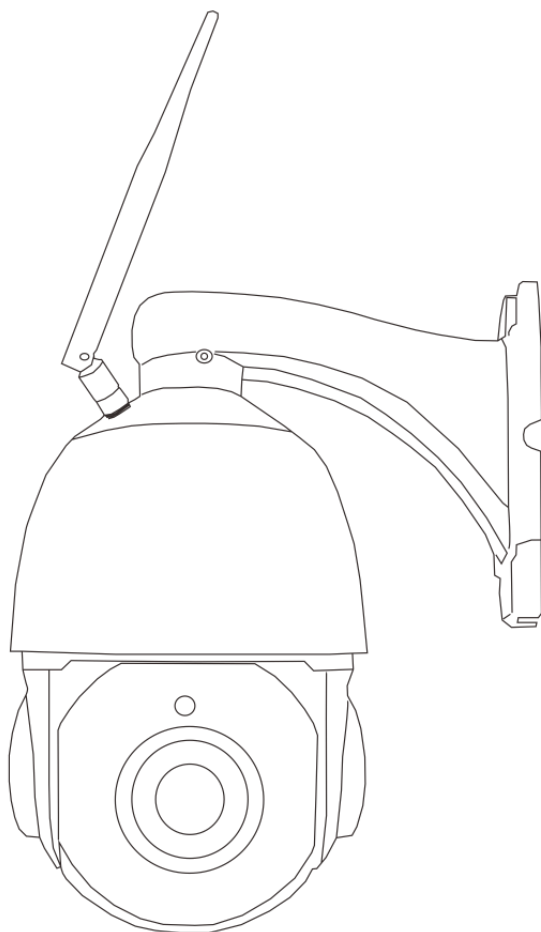# **WiFi** Outdoor PTZ IP Camera Security Camera

User Manual

Please read the installation instructions before you operate it.

Ⅰ：**User instructions**

Thank you for using our WiFi Outdoor PTZ IP Camera Security Camera

According to our introduction of guarantee，Within the specified warranty period，our company will repair or replace parts that are damaged under normal use. User don't disassemble repair itself without Our Consent. Within the specified warranty period, we will repair or replace parts (excluding cable, housing and bracket) that are damaged under normal use (by judge of us) at no additional charge.

Free services and repairs will not be covered under the following conditions

1、 Unauthorized repair or disassembly of the product ;

2、 Damage due to the bad shipping, or Move of discharging ;

3、 Damage due to the user not according to the user manual to operate, maintain, maintenance，such as falling、extrusion、flooding water、be affected with damp、corrosion and Other damage caused by human factor ;

4、 The product faulty caused by the overloaded or the working environment which is not suitable for it, and surface damaged when you using it ;

5、 Any damage or ruin by force majeure.

Ⅱ、**Product feature**

1. 4" mini sized housing.

2. Drove by bearing and belt, more stable and smooth, long performance life.

3. Using import belt drive，Running more stable, more reliable and noiseless.

4. Using import stepper motor，responsive、fixed position accurately.

5. Decoder board supply power to motor, camera and IR LED separately, machine can work more stable.

6. 80 preset positions; 8 tour routes, 1 fixed monitoring position, can set stay time for each preset positions as 5 / 10 / 15/…/ 55 / 60 seconds, can set limitation positions on left and right, internal data will not lost after power off.

7. Angle speed：horizontal 355°Rotation 0.1°- 40°/ sec；vertical 0~90° rotation. 0.1°- 40°/ sec

Ⅲ：**Main technical parameters**

1、Electricity

Power supply：　　　　　　　DC12V—3000mA

PTZ drive：　　　　　　　　DC12V—500mA

IR light power supply：　　　DC12V—1800mA

lens Drive：　　　　　　　　 DC12V—200mA

Camera power supply：　　　DC12V—200mA

Other:　　　　　　　　　　DC12V—300mA

Retrofitting Temperature controlling device

Working temperature： -45℃～+55℃

Address range：1～255

Communication mode：RS485

Protocol：support various protocol

Baud rate：2400bps、4800bps、9600bps、19200bps Auto

Controlling Equipment: Video Matrix、industrial control DVR、DVR、NVR、controlling keyboard etc.

Preset: 255 presets,1-80 for dome, other for special function

inspection teams：8 groups

stay time for each preset positions：5*n seconds adjustable （1≤n≤20）.

2、**Mechanical Specifications**

PTZ rotation angle: horizontal 355° unlimited rotation, vertical 0°～90°

PTZ rotation speed： horizontal 0.1°- 40°/ sec，vertical 0.1°- 40°/ sec

Rotation limit：horizontal is adjustable in the range PTZ rotation angle of 355 °，software and photoelectricity limit
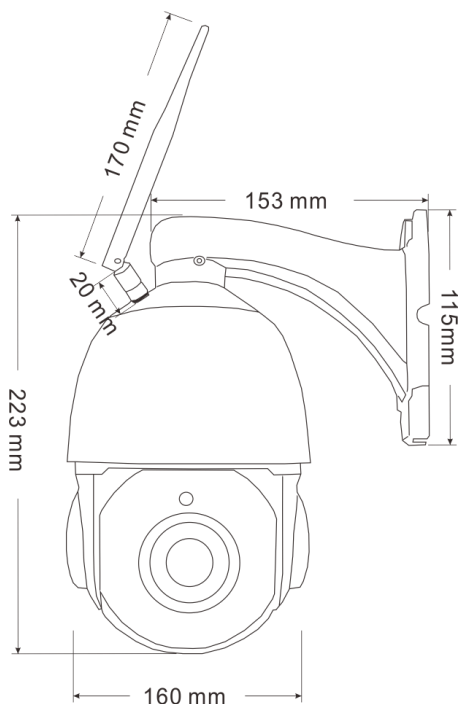
3、Environment

Working temperature： -25℃～+55℃（temperature control）: Built-in 45℃ environment temperature.

Working humidity：90% RH

Ⅳ：**Matching device**

Table 1： matching device

Product	Installation	Holder	Power	cable
Speed Dome	Wall mounting	wall bracket	DC12V 3A	The power cable, NET cable

Ⅴ：**Function settings**

1.Set preset position

a、Control camera to point at needed position, Press the key "set preset"

b、Type in"1"

c、 Press the key "enter"

2.Call preset

a、Press the key "call preset", then enter "1"

b、Click "Enter"

（1）Calling auto tour line

By controlling keyboard and DVR to implement the command "call No.98"preset

position. It can make the dome camera auto   tour the preset position of it has been set

in the first cruise route "call No.97 preset position" as auto tour the preset position of the second tour line. Corresponding number of preset position for 3cruise routes.

Patrol line	Calling preset	Contains preset
the first cruise	call No.98 preset	1~30 preset
the second cruise	call No.97 preset	31~60 preset
The third cruise	call No.96 preset	16~30 preset

Example：Use a type of controlling keyboard to start using the second auto tour line.

  a、Press the key "call preset position", then enter "97"

 b、press the key "Enter"

（2）Clear cruise routes

 Call No.104 clear all Settings to restore the default

（3）Limit scanning on left and right、355° Horizontal scanning、pattern scan.

By the controlling keyboard or DVR related command execution, you can setting or calling Limit scanning、355° Horizontal scanning、pattern scan.

Limit scanning	setting	calling
the first scan	Left limit：set No.81 preset Right limit：set No.82 preset	Call No.141 preset
the second scan	Left limit：set No.83 preset Right limit：set No.84 preset	Call No.142 preset
the third scan	Left limit：set No.85 preset Right limit：set No.86 preset	Call No.143 preset

（4）355° Horizontal scanning

  By controlling keyboard or DVR to implement the command "call No.120 preset position" dome will perform start 355° Horizontal scanning.

（5）Restore factory settings、

  Call No.106 clear all Settings to restore factory.

Common Fast Call Up Preset

Call Preset	Function	Call Preset	Function
96	Start First Auto Cruise（16~30）	81	Auto IR Mode
97	Start Second Auto Cruise（31~60）	82	Manual Open IR Mode
98	Start Third Auto Cruise（1~30）	83	Manual Close IR Mode
120	Start 355°Horizontal scanning	107	PTZ Recalibrate
106	Restore factory settings	104	Clear All Presets

Limit scanning on left and right (A-B Scan)		
Set Preset	Left and Right Postion (A-B)	Call Preset
81	First Group Left Position (A)	141
82	First Group Right Position (B)	
83	Second Group Left Position (A)	142
84	Second Group Right Position (B)	
85	Third Group Left Position (A)	143
86	Third Group Right Position (B)	

Special Fast Call Up Preset			
Turn on IR LED Sensitivity Value	Set 110 + Set N	N=(36-100）	
Setup A-B Scan Speed	Set 111 + Set N	N=(1-64)	
Setup Pan Tilt Max Speed	Set 113 + Set N	N=(1-64)	
Setup Auto Cruise Stay Time	Set 114 + Set N	N=(1-255)	4 Second (default)
Setup Auto Cruise Speed	Set 115 + Set N	N=(1-64)	64 (default)
Setup Return Watch Position Time	Set 116 + Set N	N=(1-255)	90 Second (default)
Setup Watch Position	Set 125		
Clear Watch Position	Call 125		

Camera Specifications

Material	Shell	Aluminium Alloy
Shell Index	Size	4 inch，thickness 1.8mm
	Color	White and Black
Manual operation speed	Horizontal rotation range	355° Unlimited
	Vertical rotation range	0°～90°
	Running speed	level：0.1°-40°/sec, vertical：0.1°-40°/sec
The preset position moving speed	Running speed	level：40°/sec；vertical：40°/sec
Electric index	input voltage	DC12V
	Interior input power	36W
	IR Night Vision Distance	100 meters
functional parameter	Communication	WiFi/RJ45
	preset	60
	cruise track	3
	PTZ control protocol	Automatic recognition PELCO-P or PELCO-D
Working temperature	Indoor type	0℃~60℃ Intermittent operation；0℃~50℃ Continuous operation
	Outdoor type	max： 0℃~60℃ Intermittent operation； 0℃~50℃ Continuous operation minimum：-50°C~0℃ Intermittent operation；-25℃~0℃ Continuous operation
weight		2.1 kg

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

•Reorient or relocate the receiving antenna.
•Increase the separation between the equipment and receiver.
•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
•Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Innovation Leads the future!