

# Instruction Manual



## Medium Speed Intelligent Dome PTZ

## Part 1 Performance Features

### 1. Dome Parameter

#### a) Electric Index

- 【Video Output】: 1.0±0.2VP-P, 75Ω compound video signal
- 【(S/N)】: >50dB
- 【Manual Speed】: (0.5° ~50° /s) / Vertical (0.5° ~50° /s)
- 【Preset Speed】: 50° /s
- 【Rotation】: Horizontal 360° endless rotation;  
Vertical 0~92° with auto overturn
- 【Preset Positions】: 128 pieces
- 【Auto scanning】: 2 lines, 1 auto scanning route and speed can be set
- 【Synchronization System】: Internal / External optional
- 【Communication Baud Rate】: 1200/2400/4800/9600/bps
- 【Address Range】: 1~255

#### b) Physics Index

- 【Video Output Interface】: BNC
- 【Remote Control】: RS485 twisted cable
- 【Environment Temperature】: -10℃ ~+50℃
- 【Environment Humidity】: 0~95% (no congealing)
- 【International Protection】: 24h protective housing, 3000V lighting-proof, surge voltage protective
- 【POWER】: DC12V/800mA
- 【Dimension】: 125 × 135 (L × D)
- 【Weight】: 0.85KG (without bracket and adapter)
- 【casing】: Transparent or semi-transparent

### 2. CCTV Lens Parameter

The intelligent dome set for multiple board cameras: 420 / 540TVL, etc.

### 3. Dome Performance Feature

The intelligent dome is designed new & compact with fast cooling module; easy installation; suitable for hidden monitoring with internal black cover; flexible and low noise; provide wide shooting angle and sharp image.

#### a) Built-in Decoder

- 1) Full digital design, all data saved inside of the module with memory function at accidental power-off.

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- 2) All in one integrated design, high reliability;
- 3) 128 preset positions; #1 to #80 positions can save freely, with 2 auto cruise route supported, 1<sup>st</sup> and 2<sup>nd</sup> cruise route can store 8 and 16 preset positions separately, each position pauses 6 seconds;
- 5) With RS485 remote control interface;
- 6) With expanding functions, it is compatible with any keyboard like high speed domes;

#### b) Built-in PTZ

- 1) Precise stepping electrical motor, stable rotation, flexible response, correct location;
- 2) All in one integrated design, compact structure, fast wiring connection, facility for use;
- 3) Exquisite mechanical driving equipment, pan 360° endless rotation, tilt 0~92° with auto flip;
- 4) Horizontal slow rotation at 1° /s, no vibrating images;
- 5) Former movement automatically recovered when power-on;

#### c) Built-in all in one camera

- 1) Auto Focus, Auto-Bright Control, AWB;
- 2) Color and B/W auto change, BLC, AES;

## Part 2 Function and Operation Instruction

This part mainly describes the leading functions and principles of the all in one intelligent dome camera, but not relates to specific operational methods. Different systematical platforms have different methods, special requirements and methods please subject to the systematical manufacturers' manuals.

### 1. Set CCTV encoding

The control board of the dome has a 10-DIP-switch, used to set address, communication and control protocols PELCO-D/P (refer to "DIP switch set"). Any command should agree with the targeted address and camera only responds when address code is the same...

### 2. CCTV Camera Operation

#### Zoom control

User can adjust the image farther/nearer to get a panoramic view by controlling the keyboard [ZOOM-]/[ZOOM+]. The speed dome supports optical zoom.

### 3. Surveillance function

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#### a) Set & Recall preset positions

This function is to store PTZ present location parameter like horizontal angle / inclination / focal length in a memory and recall them whenever needed. User can quickly recall the preset positions via PTZ controllers.

#### b) Automatic Cruise

Automatic Cruise is an internal set function, which insert the points and realize the automatic cruise among preset positions by beforehand programming them in the cruise lists. 1<sup>st</sup> and 2<sup>nd</sup> cruise route can store 8 and 16 preset positions separately.

#### c) Auto Scanning

The speed dome can be easily set left & right limiting position via keyboard or menu, through which the camera can auto scan between the left and right limiting positions at a preset speed.

#### d) Power-off Protective

When normal or accidental power-off happens, the camera would auto-protect the movement state. After power-on, the camera would auto-recover the former protected movement.

## Part 3 Extended Function

This part mainly describes the leading functions and principles of the all in one intelligent dome camera, but not relates to specific operational methods. Different systematical platforms have different methods, special requirements and methods please subject to the systematical manufacturers' manuals.

### 1. Set scanning

The speed dome can be set to scan between two fixed positions back and forth at a set speed. Set preset position #126; then Set #xx preset position, xx is the scanning speed (1-50 adjustable), then, move the rod to the image as the beginning locations, set #127 as scanning beginning location, move to the ending location and set #128 as the ending scan points, and call #128 preset position.

**Setting Method:** Example: Scan setting at the speed of 30° /s.

- 1) Set #126 preset position;
- 2) Set #30 as the speed;
- 3) Move rod to the image as the beginning scanning position;
- 4) Set #127 preset position to confirm the beginning location;

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