

OSD-40DP OPERATION PRINCIPLE AND MODULE APPLICATION

Basic operation principle:

When sensor A & B detect body intrusion signal by Lens A & B, they will send signal to CPU processor to analyze the frequency, range and fluctuating fringe data after processing by each amplifying and filtering circuit. And make relevant estimation according to software setting, and lots of signal parameters of home pets are lead into memorizer for analysis and usage.

If detected 2-way alarm signal is in accordance with setting requirement, alarm condition can be produced, CPU will input a signal to drive 315M transmission module and send wireless signal to control panel.

Usage of each module:

Fresnel Len: focus body signal and separate into bright area and dark area in order that sensor can detect it more sensitively.

Amplifier and filter: enlarge the weak signal sent out from sensor for CPU judge and use, and sieve away the unnecessary interferential signal.

Environmental temperature check: check current environment temperature for CPU calculation and usage.

Battery voltage check: check battery voltage, if it is lower than set value, alarm will be triggered.

Tamper switch check: if detector housing is opened forcedly, alarm signal will be sent.

ID code: when alarm is triggered, a single ID code will be sent to control panel to recognize which detector in alarm.

Other setting: by combined setup on dip switch, pulse count, energy-save mode, sensitivity etc can be set for better operation in different environment.

Charge and protection circuit: bring in the external solar power or DC power for charge or Ni Mh battery, with polarity and high pressure protection.

Power: offer stable voltage which meets operation requirement.

315M transmission module: transmit the alarm signal and ID code by 315M carrier wave for remote alarm control panel reception.