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TECHNOLOGY

# DH-SD50220I-HC

## 2MP 20x PTZ HDCVI Camera

· 1/2.8" 2Megapixel Exmor CMOS
· Powerful 20x optical zoom
· DWDR, 3D DNR
· Max. 25/30fps@1080P, 25/30/50/60fps@720P
· IP67, IK10

ICR D/N    IP67    Vandal-proof

## System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD50 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 20x optical zoom. SD50 series PTZ is equipped with quick and smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

## Functions

Simplicity
HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Environmental
With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. he camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection
This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Onvif  PSIA

## Technical Specification

### Camera

| | |
|---|---|
| Image Sensor | 1/2.8" Exmor CMOS |
| Effective Pixels | 1920(H) x 1080(V), 2 Megapixels |
| Scanning System | Progressive |
| Electronic Shutter Speed | 1/3s~1/300,000s |
| Minimum Illumination | Color: 0.05Lux@F1.4; B/W: 0.005Lux@F1.4 |
| S/N Ratio | More than 50dB |
| IR Distance | N/A |
| IR On/Off Control | N/A |
| IR LEDs | N/A |

### Lens

| | |
|---|---|
| Focal Length | 4.7mm~94mm |
| Max. Aperture | F1.4 ~ F2.6 |
| Angle of View | H: 54.1° ~ 3.1° |
| Optical Zoom | 20x |
| Focus Control | Auto/Manual |
| Close Focus Distance | 100mm~ 1000mm |

### PTZ

| | |
|---|---|
| Pan/Tilt Range | Pan: 0° ~ 360° endless; Tilt: 0° ~ 90°,auto flip 180° |
| Manual Control Speed | Pan: 0.1° ~350° /s; Tilt: 0.1° ~250° /s |
| Preset Speed | Pan: 500° /s; Tilt: 500° /s |
| Presets | 300 |
| PTZ Mode | 5 Pattern, 8 Tour, Auto Pan ,Auto Scan |
| Speed Setup | Human-oriented focal Length/ speed adaptation |
| Power up Action | Auto restore to previous PTZ and lens status after power failure |
| Idle Motion | Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period |
| Protocol | DH-SD, Pelco-P/D (Auto recognition) |

### Video

| | |
|---|---|
| Resolution | 1080P(1920×1080)/720P(1280×720) |
| Frame Rate | 25/30fps@1080P, 25/30/50/60fps@720P |
| Video Output | 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable) |
| Day/Night | Auto(ICR) / Color / B/W |
| OSD Menu | Support |
| Backlight Compensation | BLC / HLC / DWDR |
| White Balance | Auto,ATW,Indoor,Outdoor,Manual |
| Gain Control | Auto / Manual |
| Noise Reduction | Ultra DNR (2D/3D) |

| | |
|---|---|
| Digital Zoom | 16x |
| Flip | 180° |
| Privacy Masking | Up to 24 areas |

### Certifications

| | |
|---|---|
| Certifications | CE: EN55032/EN55024/EN50130-4<br>FCC: Part15 subpartB,ANSI C63.4- 2014<br>UL: UL60950-1+CAN/CSA C22.2,No.60950-1 |

### Interface

| | |
|---|---|
| Video Interface | 1 |
| Audio Interface | 1 channel in |
| RS485 | 1 |
| Alarm | 2/1 |

### Electrical

| | |
|---|---|
| Power Supply | AC24V/1.5A(±10%) |
| Power Consumption | 13W,23W (Heater on) |

### Environmental

| | |
|---|---|
| Operating Conditions | -40°C ~ 60°C (-40°F ~ +140°F) / Less than 90% RH |
| Ingress Protection | IP67 |
| Vandal Resistance | IK10 |

### Construction

| | |
|---|---|
| Casing | Metal |
| Dimensions | Φ186.0(mm) x 253(mm) |
| Net Weight | 2.5kg(5.51lb) |
| Gross Weight | 4.5kg(9.92lb) |

## Ordering Information

| Type | Part Number | Description |
|------|-------------|-------------|
| 2MP PTZ Camera | DH-SD50220I-HC | 2MP 20x PTZ HDCVI Camera, PAL |
| | DH-SD50220IN-HC | 2MP 20x PTZ HDCVI Camera, NTSC |
| | SD50220I-HC | 2MP 20x PTZ HDCVI Camera, PAL |
| | SD50220IN-HC | 2MP 20x PTZ HDCVI Camera, NTSC |
| Accessories | PFB300S | Wall Mount |
| | PFA110 | Mount Adapter |
| | AC24V/1.5A | Power Supply |
| | PFA140 | Power box |
| | PFB300C | Ceiling Mount |
| | PFA120 | Junction Box |
| | PFA150 | Pole Mount |
| | PFA151 | Corner Mount |
| | PFB303S | Parapet mount |

## Accessories

Included:

PFB300S
Wall Mount

PFA110
Mount Adapter

AC24V/1.5A
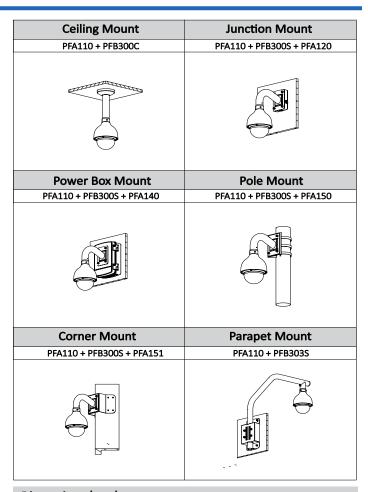Power Supply

Optional :

PFA140
Power box

PFB300C
Ceiling Mount

PFA120
Junction Box

PFA150
Pole Mount

PFA151
Corner Mount

PFB303S
Parapet Mount

| Ceiling Mount | Junction Mount |
|---------------|----------------|
| PFA110 + PFB300C | PFA110 + PFB300S + PFA120 |

| Power Box Mount | Pole Mount |
|-----------------|------------|
| PFA110 + PFB300S + PFA140 | PFA110 + PFB300S + PFA150 |

| Corner Mount | Parapet Mount |
|--------------|---------------|
| PFA110 + PFB300S + PFA151 | PFA110 + PFB303S |

## Dimensions (mm)

Ø47mm
25mm
253mm
140mm
9mm
Ø140mm
Ø186mm

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