

# DH-SD6C230I-HC

2MP 30x Starlight IR PTZ HDCVI Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 30x optical zoom
- Starlight technology
- 120dB true WDR, 3D DNR
- Max. 25/30fps@1080P, 25/30/50/60fps@720P
- IR distance up to 150m
- IP66



## System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD6C series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 30x optical zoom, and has very excellent low light performance due to adopting the latest starlight technology. SD6C series PTZ is equipped with 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.

### Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

### Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, true WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

### Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 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.

## Technical Specification

### Camera

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| Image Sensor             | 1/2.8" STARVIS™ CMOS                                            |
| Effective Pixels         | 1920(H) x 1080(V), 2 Megapixels                                 |
| Scanning System          | Progressive                                                     |
| Electronic Shutter Speed | PAL: 1/3s~1/30,000s<br>NTSC: 1/4s~1/30,000s                     |
| Minimum Illumination     | Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6;<br>0Lux@F1.6 (IR on) |
| S/N Ratio                | More than 55dB                                                  |
| IR Distance              | Distance up to 150m (492ft)                                     |
| IR On/Off Control        | Auto/Manual                                                     |
| IR LEDs                  | 6                                                               |

### Lens

|                      |                 |
|----------------------|-----------------|
| Focal Length         | 4.5mm~135mm     |
| Max. Aperture        | F1.6 ~ F5.0     |
| Angle of View        | H: 67.8° ~ 2.4° |
| Optical Zoom         | 30x             |
| Focus Control        | Auto/Manual     |
| Close Focus Distance | 100mm~ 1000mm   |

### DORI Distance

\*Note: The DORI distance is a “general proximity” of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

| Detect        | Observe      | Recognize    | Identify    |
|---------------|--------------|--------------|-------------|
| 1862m(6109ft) | 744m(2441ft) | 372m(1220ft) | 186m(610ft) |

### PTZ

|                      |                                                                                     |
|----------------------|-------------------------------------------------------------------------------------|
| Pan/Tilt Range       | Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°                            |
| Manual Control Speed | Pan: 0.1° ~ 160° /s; Tilt: 0.1° ~ 120° /s                                           |
| Preset Speed         | Pan: 240° /s; Tilt: 200° /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 high definition video output/ CVBS standard definition video output (switchable) |
| Day/Night              | Auto(ICR) / Color / B/W                                                                        |
| OSD Menu               | Support                                                                                        |
| Backlight Compensation | BLC / HLC / WDR (120dB)                                                                        |
| White Balance          | Auto, ATW, Indoor, Outdoor, Manual                                                             |
| Gain Control           | Auto / Manual                                                                                  |
| Noise Reduction        | Ultra DNR (2D/3D)                                                                              |
| Defog                  | Support                                                                                        |
| 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 I/O       | 2/1          |

### Electrical

|                   |                  |
|-------------------|------------------|
| Power Supply      | AC24V/3A(±10%)   |
| Power Consumption | 13W, 23W (IR on) |

### Environmental

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Operating Conditions | -40°C ~ 60°C (-40°F ~ +140°F) / Less than 95% RH |
| Ingress Protection   | IP66                                             |
| Vandal Resistance    | N/A                                              |

### Construction

|              |                    |
|--------------|--------------------|
| Casing       | Metal              |
| Dimensions   | Φ205(mm) x 336(mm) |
| Net Weight   | 5kg(11.02lb)       |
| Gross Weight | 8.3kg(18.30lb)     |

## Ordering Information

| Type           | Part Number     | Description                                      |
|----------------|-----------------|--------------------------------------------------|
| 2MP PTZ Camera | DH-SD6C230I-HC  | 2MP 30x Starlight IR PTZ HDCVI Camera, WDR, PAL  |
|                | DH-SD6C230IN-HC | 2MP 30x Starlight IR PTZ HDCVI Camera, WDR, NTSC |
|                | SD6C230I-HC     | 2MP 30x Starlight IR PTZ HDCVI Camera, WDR, PAL  |
|                | SD6C230IN-HC    | 2MP 30x Starlight IR PTZ HDCVI Camera, WDR, NTSC |
| Accessories    | 64FB            | Wall Mount                                       |
|                | AC24V/3A        | Power Adapter                                    |
|                | PFA114          | Mount Adapter                                    |
|                | PFB303W         | Wall Mount                                       |
|                | PFA140          | Power Box                                        |
|                | PFB300C         | Ceiling Mount                                    |
|                | PFA120          | Junction Box                                     |
|                | PFA150          | Pole Mount                                       |
|                | PFA151          | Corner Mount                                     |
|                | PFB303S         | Parapet Mount                                    |

## Accessories

Included:



64FB  
Wall Mount



AC24V/3A  
Power Adapter

Optional:



PFA114  
Mount Adapter



PFB303W  
Wall Mount



PFA140  
Power Box



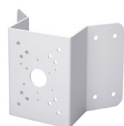
PFB300C  
Ceiling Mount



PFA120  
Junction Box



PFA150  
Pole Mount



PFA151  
Corner Mount



PFB303S  
Parapet Mount

| Ceiling Mount             | Junction Mount            |
|---------------------------|---------------------------|
| PFA114 + PFB300C          | PFA114 + PFB303W + PFA120 |
|                           |                           |
| Power Box Mount           | Pole Mount                |
| PFA114 + PFB303W + PFA140 | PFA114 + PFB303W + PFA150 |
|                           |                           |
| Corner Mount              | Parapet Mount             |
| PFA114 + PFB303W + PFA151 | PFA114 + PFB303S          |
|                           |                           |

## Dimensions (mm)

