



# DC-400



## 4K IP Camera with 20x Zoom

The DC-400 is 4K IP smart camera built around the innovative Sony FCB-ER8530 block and Qualcomm Snapdragon processor. It combines superior low light sensitivity with 20x optical zoom and image stabilization for the highest quality images in any environment. With wide support for software platforms and standards, the DC-400 can be easily integrated into existing installations.

## DC-400 Features

- 1/2.5" Exmor R™ CMOS Sensor
- Up to 4K (2160p) Output Resolution
- Integrated Sony FCB-ER8530 Block
- Full Linux System with Processing
- HEVC and H.264 Video Streaming
- 10/100/1000 Ethernet
- RTSP with Authentication
- Sony VISCA Serial Control
- 20x Enhanced Optical Zoom
- Image Stabilizer with Stable Zoom
- High Sensitivity for Low Light Applications
- Wide Dynamic Range
- Noise Reduction
- Spot Focus, Exposure and White Balance
- Visibility Enhancer
- IR Correction
- Electric Pan/Tilt
- 7 Blade IRIS for Flare Reduction
- HDMI Preview Output
- Integrated Micro SD Card for Recording
- Serial/VISCA Camera Control over IP
- ONVIF S Compliant
- Simple Web Setup and Configuration
- Optional 802.11ac WiFi
- Web Services API
- Support for 3rd Party Application Integration

## DC-400 Applications

- Surveillance Systems
- Broadcast
- Medical Imaging
- Professional A/V Applications
- Traffic Control
- Real-Time Video Streaming
- Video Analytics
- Object Tracking

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## Linux-Based Smart Camera

The DC-400 is a high-definition Linux-based smart camera designed around the Sony FCB-ER8530 camera block and powerful Qualcomm Snapdragon processor for the best image quality and performance. It provides a reliable RTSP video stream in HEVC (H.265) or H.264 formats and contains all the necessary services for complete configuration and control.

## 4K Video Streaming

The DC-400 provides real-time video streaming at full 4K (3820x2160), making it perfect for when image detail is necessary. The integrated 8.5M Sony Exmor R™ sensor allows for clean and clear images in any light condition.

## 20x Enhanced Optical Zoom

The DC-400 lens provides high resolution and dramatically reduced chromatic aberration, making it capable of showing high resolution images in full sharpness with no image deterioration in the surrounding edges.

## Image Stabilizer

The image stabilizer function suppress low-frequency vibrations that cause image blurring. This mode is useful in outdoor applications such as surveillance and traffic monitoring where the camera is subject to wind or vibrations from a bridge or pole.

## High Sensitivity and Auto ICR

The Sony sensor allows for optimal image quality in changing light conditions day or night. In high sensitivity mode, the DC-400 can operate effectively in light as low as .06 lux. For extreme low light conditions, the IR cut filter can be automatically removed to boost sensitivity for clear images in near darkness.

## Camera Control and Configuration

The DC-400 camera adjustments can be controlled using the Sony VISCA™ protocol through the camera's serial connector or remotely using the dPict Imaging Configuration Manager. The Configuration Manager is also used for device network discovery and configuration of the camera's network, video and administrative settings.

## Integration Tools

The DC-400 supports a wide range of tools for installation into existing systems or integration in an OEM development. For existing systems, the DC-400 supports the ONVIF protocol for network-based cameras. For OEM installations, an optional web services API is available with sample code. The DC-400 can even run supported 3rd party services right on the camera.

## Specifications

### Image Sensor<sup>1</sup>

- 1/2.5" Sony Exmor R™ 8.5M CMOS
- Image S/N: 50 dB
- Gain: Auto/Manual 0 - 48 dB- 16 Steps
- Shutter Speed: 1/1 to 1/10000s - 22 steps
- Exposure Control: -10.5 dB to 10.5 dB - 15 Steps
- White Balance: Auto, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto), Spot AWB
- Auto Exposure: Full Auto, Manual, Priority mode (shutter/iris), EV compensation, Spot AE, Slow AE
- Zoom: 20x Enhanced Optical Zoom, 12x Digital Zoom, 26x Stable Zoom
- Lens: f = 4.4 mm to 88.4 mm, F2 to 3.8
- Horizontal Viewing Angle: 70.2° to 4.1°

### Video Processing

- Streaming Resolutions: 3840x2160p, 1920x1080p, and 1280x720p
- HEVC and H.264 Encoding
- HDMI Video Output
- RTSP with Authentication
- Configuration of Frame and Bit Rate

### System I/O

- 10/100/1000 Ethernet
- Optional 802.11ac WiFi
- VISCA Serial Interface
- SD Memory Card Interface

### System Services

- User Authentication and Configuration
- Web Server with Video
- VISCA Server
- ONVIF Server
- NTP Time Server
- Deployment/Upgrade Server

### Configuration

- Device Discovery Application
- HTTP Web Configuration Manager
- Available Web Services API

### Physical and Environmental

- Size: 156mm x 63mm x 70mm
- Weight: 555g
- Power Requirement: 12V
- Power Consumption<sup>2</sup>: 10.7W
- Operating temperature: -5° C to 60° C
- Storage temperature: -20° C to 60° C
- Operating humidity: 20% to 80% non-condensing
- Storage humidity: 20% to 95% non-condensing

### Ordering Information

- DC-400 Ethernet: 30023-001
- DC-400 With Wireless: 30023-002
- DC-400 Power Supply: 99103



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1. See Sony FCB-ER-8530 documentation for complete sensor specifications.
2. Power measured in 4K30p output utilizing H.264 encoding.