



**SI31-12S**

**Full HD AI-Powered Network IR Semi Dome Camera**



#### Superior Image Quality

1/2.8" 2MP CMOS sensor

FHD 1080p 30fps image

Varifocal AF Lens

Storage and bandwidth savings with Codec H.265

Ultra low light integrated at 0.002 Lux

High quality color images under low light environments

With 3D noise reduction, WDR and HLC

#### Recognition Functions

Identify multiple targets simultaneously

Target tracking and feature recognition

Bi-directional people counter

Built-in algorithm for image comparison ability

Intelligent Face Detection that detect face and optimizes the exposure optimally

#### Exceptional Impact Resistance

Up to 50 joules, perfectly adapted to environments exposed to vandalism

#### High Performance IR

Industry-standard IR LED with longer life expectancy

Long-range with Smart IR feature

#### Other Highlights

Expandable memory with MicroSD card

Supports Automatic Network Replenishment (ANR)

Bi-directional audio/ alarm input & output/ RS485 standard

Support multiple streams (up to 3)

PoE enabled



**IDvaco Private Limited**  
627A Aljunied Road #06-02  
BizTech Centre, Singapore 389842  
[www.idvaco.com](http://www.idvaco.com)

## TECHNICAL SPECIFICATIONS

### CAMERA

<b>Image Sensor</b>	Progressive scan CMOS 1/2.8" with 2.0 Megapixel Digital Wide Dynamic Range S/N Ratio: >52dB
<b>Minimum Illumination</b>	Color: 0.002Lux @ (f/1.2, AGC on) B/W: 0.0002Lux @ (f/1.2, AGC on)
<b>Shutter Time</b>	1 - 1/30,000 secs
<b>Day and Night</b>	Automatic infrared-cut filter, color, black & white
<b>Lens</b>	Mount Type: $\Phi$ 14  Auto Iris: DC drive  Focal Length: 7022: auto varifocal, 7 - 22mm, f/1.4  Focus: manual/ semi-auto/ auto  View Angle: 108° to 35°  Camera Angle Adjustment: Pan 0° to 355°, Tilt 0° to 75°, Rotation 0° to 355°
<b>Infrared</b>	IR Distance: 20 - 40m IR Intensity: Smart IR
<b>Other Settings</b>	Auto/ Manual White Balance Auto/ Manual Gain Control Backlight Compensation: BLC / HLC / WDR / Off

### VIDEO

<b>Compression</b>	H.265, H.264, MJPEG
<b>Image Resolution and Frame Rate</b>	Main stream: 1080p at 30fps Sub stream: D1 at 30fps
<b>Bitrate</b>	32kbps to 16Mbps
<b>Multi-Stream</b>	Supported
<b>Image Settings</b>	Bitrate Control: VBR / CBR  Privacy masking & motion detection: up to 4 zones  Video Stamper: timestamp / alert / customize  3D Noise Reduction, freeze frame, rotating image, mirroring of image

### AUDIO

<b>Audio Capability</b>	Compression: G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726  Bitrate: 32kbps - 64kbps  Audio Streaming: bi-directional / AEC / two way recording / mute and dumb
-------------------------	---

### NETWORK

<b>Supported Protocols</b>	IPv4, IPv6, TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP
<b>User Interface</b>	Web control works with IE, Firefox and Chrome
<b>Max. User Access</b>	10 users
<b>Compatibility</b>	Onvif (Profile S/G), API, CGI
<b>Automatic Network Replenishment (ANR)</b>	Supported

### INTELLIGENT FUNCTIONS

<b>Detection and Tracking</b>	Face detection and recognition for up to 18 targets simultaneously
<b>Image Capturing</b>	Person, Face, Full view  Built-in algorithm for image comparison ability, select best shot automatically
<b>Detectors</b>	Direction detector, speed detector
<b>People Counter</b>	Bi-directional counting
<b>Photo Enhancement</b>	Intelligenc face detection

### CONNECTORS

<b>Network Connectivity</b>	RJ-45 connector, 10/100M
<b>Control</b>	1 x RS485
<b>Audio In / Out</b>	1 x Input, 1 x Output
<b>Alarm In / Out</b>	1 x Input, 1 x Output
<b>External Memory</b>	Support up to 128GB MicroSD card

### ALERT AND NOTIFICATIONS

<b>Condition Triggers</b>	Input alarm / network disconnection / low disk space / disk read error
<b>Event Triggers</b>	Alarm incident report / recording / text overlay / snapshot / external output / email notification / acoustic alarm

### GENERAL

<b>Operating Conditions</b>	Temperature: -40°C ~ 40°C (-40 °F ~ 104 °F)  Humidity 10% to 95%
<b>Impact Resistance</b>	IK10+/ 50 Joules
<b>Power</b>	AC 24V $\pm$ 10%, DC12V $\pm$ 10%, PoE (IEEE802.3at), Max. 20W
<b>Weight</b>	1 kg/ 2.2lb (GWT)
<b>Dimensions</b>	$\Phi$ 155.8 $\times$ 125.9mm / $\Phi$ 6.14" $\times$ 4.96"



IDvaco Private Limited  
 627A Aljunied Road #06-02  
 BizTech Centre, Singapore 389842

www.idvaco.com 
 +65 6969 2892 
 info@idvaco.com