SN-IPS57/20BDN/ZSC22
1080P Network High Speed Dome

- 1/2.8 " Progressive Scan CMOS
- 22X Optical Zoom,16X Digital Zoom
- HD 1080P(1920×1080)
- Multiple Streams
- Low bitrate ,Good low light performance
- 3D DNR,dWDR,ICR
- Auto Tracking

System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera 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

Starlight Technology
For challenging low-light applications, Sunell's Starlight Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Auto-tracking
This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Intelligent Video System (IVS)
With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of Perimeter, Single Virtual Fences, Double Virtual Fences Loiter, Multi Loiter, Object Left, Object Removed, Abnormal Speed, Converse, Illegal Parking, Signal Bad.

Smart Encode (H.265+)
Deliver high quality video without straining the network, Smart Encode H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

Environmental
Sunell cameras operate in extreme temperature environments, rated for use in temperatures from -40°C ~ 60°C (-40°F ~ +140°F) with 90% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection
The camera allows for ±20% input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.
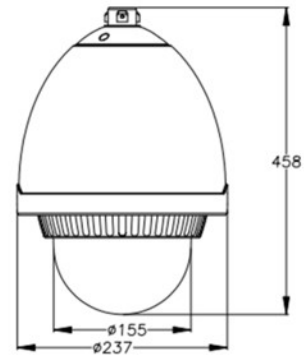
Technical Specification

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Effective Pixels	1920(H) x 1080(V)
Scanning System	Progressive
Electronic Shutter	Auto/Manual, 1/1~1/10000s
Min. illumination	Color:0.01Lux@(F1.2,AGC ON) B/W:0.001Lux@(F1.2,AGC ON)
S/N Ratio	55dB
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A

Lens	
Focal Length	4.7~103mm
Max. Aperture	F1.6~F3.5
Angle of View	H:58.7°~3.2°
Optical Zoom	22x
Focus Control	Auto/Manual
Close Focus Distance	500mm~1500mm(Wide ~Tele)

PTZ	
Pan/Tilt Range	Pan: 0° ~ 360° endless, Tilt: -5° ~ 90°
Manual Control Speed	Pan: 0.1° ~180° /s, Tilt: 0.1° ~90° /s
Preset Speed	Pan: 180° /s, Tilt: 90° /s
Presets	400
PTZ Mode	6 Track, 12 Tour, 12 Scan,
Speed Setup	Auto/Manual (0-8)
Power Off Memory	Support
Idle Motion	Activate Preset/ Scan/ Tour/ Track if there is no command in the specified period

Intelligence	
Auto Tracking	Support
IVS	Perimeter, Single Virtual Fences, Double Virtual Fences, Loiter, Multi Loiter, Object Left, Object Removed, Abnormal Speed, Converse, Illegal Parking, Signal Bad

Video	
Compression	H.265, H.264, MJPEG
Streaming Capability	3 Streams
Stream / Frame Rate	Stream 1: 1920×1080/ 1280×720 @ 25/30fps
	Stream 2: D1/VGA/640×360/CIF/QVGA @25/30fps
	Stream 3: VGA/CIF/QVGA @25/30fps

Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 500kbps~12000kbps ; Stream2: 100kbps~6000kbps Stream3: 100kbps~3000kbps
Day/Night	Auto(ICR) / Color / B/W
Image Enhancement	BLC/HLC/dWDR
White Balance	Auto/Tungsten/Fluorescent/Daylight/Shadow/Manual
Gain Control	Auto/Manual
Noise Reduction	2D/3D DNR
Electronic Image Stabilization(EIS)	N/A
Defog	Yes
Digital Zoom	16x
Mirror	Support
Region of Interest	Off / On (8 Zone)
Motion Detection	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio	
Compression	G.711,RAM_PCM
Bit Rate	64kbps (G.711), 128kps (RAW_PCM)

Network	
Ethernet	RJ-45 (10/100Base-T)
Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, APR, SNMP
Interoperability	ONVIF, CGI
Streaming Method	Unicast
Max. User Access	10 Users
Edge Storage	NAS Local PC for instant recording Micro SD card 128GB
Web Viewer	<IE11
Management Software	IMS 3.0
Smart Phone	IOS, Android

Interface	
Ethernet	I1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch Audio In,1ch Audio Out
Alarm	2ch Alarm In,1ch Alarm Out
RS485	Yes
BNC Output	Yes
Reset Button	Yes(Built-in)

General

Power Supply	AC24V/POE+
Power Consumption	Less than 40W
Operating Temperature	Starting Temperature: -30°C ~ 60°C (-22°F ~ 140°F) Working Temperature:-40°C ~ 60°C (-40°F ~ 140°F)
Strorage Conditions	Less than 90% RH
Ingress Protection	IP66,TVS6000V
Certifications	CE/FCC
Casing	Metal
Dimensions	Φ237×458mm
Net Weight	4.5Kg

Dimensions(mm)

458

ø155
ø237

Accessories

Optional：

SN-BK606A
Wall Bracket

SN-BK607
Ceiling Bracket

SN-BK616
Flush Mount

SN-BK605
Corner Mount

SN-BK604B
Pole Mount