SS550 DarkCrystal CAM HDR IP Video Camera Assembly Specifications

- Depth rated to 3,000m
- Designed for long- or short-term deployment applications
- Low Latency Video Output: 1080p30
- Exceptional Video Quality: High Sensitivity and HDR
- Excellent Visibility: 70° DFOV Flat Port, Low Distortion Lens
- Full Camera and LED controls
- Integral in-line cable for simplified system integration
- Power compatibility: 9-36VDC Power Supply
- ONVIF Compatible and Onboard Recording

OPTICAL SPECIFICATIONS:

Lens	2.8mm, F/2.4
Focus	Fixed, 100mm ~infinity
FOV in Water	68º D x 63º H x 42º V (16:9 aspect ratio)

IMAGE SPECIFICATIONS:

Image Sensor	1/2.8" CMOS, progressive scan, 2MP
Sensor Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 640x480, 320x240
Minimum Illumination f/2.4, 1/30 sec	0.05 lux, Sense-Up Off 0.005 lux, Sense-Up On
Electric Shutter	Auto (1/30~1/30,000) ANTI-SAT_ON / AE SPEED
Day & Night	AUTO, PRESET, MANUAL

Sense-Up	OFF, X2, x4, x6, x8, x16m x32
Signal to Noise Ratio	52dB
Dynamic Range	120dB, True WDR, HLC, BLC
Noise Reduction	2D DNR, 3D DNR, HDR
Image Settings	Day & Night / Brightness, Contrast, Sharpness, Saturation, White Balance, Motion Detect, Expo-sure Control, Image Flip & Mirror, Privacy Masking, BLC, AGC, WDR, 3DNR, Sense-Up, De-Fog, Shading, Gamma, Automatic Contrast Enhancement
White Balance	Auto (Indoor & Outdoor) / Push / User
OSD Display	Text, Date, Time, Event, On/Off SMTP Time Server Supported
Image Mirror	Normal / Mirror (H) / Flip (V) / Both (HV)

VIDEO SPECIFICATIONS:

Video Compression	H.264,MJPEJ
Bit Rate Control	VBR, CBR, CVBR
Bit Rate	H.264: 128Kbps ~ 20 Mbps MJPEG: 1 ~ 50 Mpbs
Latency	H.264: 200 mS Typical MPEG:N/A
Video Streaming	Three Simultaneous Streams: 2x H.264, 1x MJPEG Independent Frame Rate & Band Width Control for each Video Stream
Max Frame Rate	30FPS
Integrated Recording	HD MPEG Video, HD JPEG Stills Time Stamped
Onboard Storage	256 GB (SDHC), (Micro SD Card), 512 GB (Optional)

ENVIRONMENTAL SPECIFICATIONS:

Depth Rating	3000 msw
Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Storage Temperature	-30°C to +60°C (-22°F to 140°F)

ELECTRICAL SPECIFICATIONS:

Voltage	9~36VDC
Power	3W Typical (HBLED Off) 17W Maximum

MECHANICAL SPECIFICATIONS:

Housing	Anodized Aluminum (Standard)
Port	Sapphire
Outer Diameter	02.125" [54 mm]
Overall Length	3.50" [88.9 mm]
Weight in Air	1.1 lbs [498.9g]
Weight in Water	0.82 lbs [371.9g]
Default Connector	Miniature Whip Cable, Extra Flexible, 2m long, 10-conductor *Contact Sales Representative for options*
Default Connectors	8~36VDC PWR COM ETH_TXP ETH_TXN ETH_RXP ETH_RXN I/O_#1 I/O_#2 I/0_#3 I/O_#4

NETWORK SPECIFICATIONS:

Supported Protocols	TCP/IP, UDP/IP, DHCP, AUTO-IP, JGMP, ICMP, HTTP, UPnP, FTP, SMTP, SNTP, DNX, RTP, RTSP, RTMP, HTTPS, ONVIF
Interface	Ethernet, 10/100 Base-TX Internal Web Browser & Virtual Serial Port, Password Protected
Date & Time	Manual Setting or Sync to SNTP Server
Configuration Settings	Google Chrome Internet Explorer 11 or above (Active X) ONVIF Profile S

DESIGN:

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