

SAIS IP-HD-CAM™

Permanently Attached Cable



The SAIS IP HD camera has been designed to be a robust device that can be used in the marine environment for inspections or long term deployments of years at a time.

Unlike action-cameras that have sometimes been re purposed for this use:

- The camera module is designed for to be reliably operated continuously for days, weeks, months and years without overheating.
- Native Internet Protocol (IP) allows for simple implementation of live viewing, live streaming, remote control, adjustment of image parameters, recording and review from any standard internet browser without the need for additional devices.
- Built in Power Over Ethernet (PoE) provides a more stable and reliable source than battery packs even if the PSE is powered by external batteries.
- Robust Mechanical design of the body, window and cable connection with no pass-through holes make for a sturdy, reliable solution for long-term underwater deployments.

The all-plastic versions of the SAIS IP HD CAM, have no exposed metal surfaces so the risk of corrosion is eliminated. The exterior of the aluminum versions are comprised of anodized aluminum and plastic materials to reduce the likelihood of corrosion occurring.

The SAIS IP CAM with Permanently Attached Cable comes in four versions:

- A **plastic** housing with **right angle** or **straight** bulkhead rated to **60m (200ft)**
- An **aluminum** housing with **right angle** or **straight** bulkhead rated to **300m (1000ft)**.

All versions were designed with the cable permanently attached to the camera body to reduce the likelihood of corrosion of a mated underwater-connector pair during long-term deployments.

This is also a more economical solution for those instances where the camera is essentially permanently installed and not moved often such as in an aquarium, land-based fish pond, aquaculture cages, well-boats and other static applications.

The cable supplied with the cameras is water-blocked to prevent migration of water along the cable in the event of damage. The addition of the bulkhead provides an extra layer of security that protects the camera and housing interior from water intrusion should the water-block in the cable be compromised.

The clear front port is made from impact and scratch resistant plastic.

With proper care, the SAIS IP HD CAM is capable of providing many years of corrosion and maintenance-free use.

Specifications

PHYSICAL	
Body:	Delrin or Anodized 6061-T6 Alloy
Diameter (Body)	2.5 in (64 mm)
OAL	6.5 in (160 mm)
Window	Acrylic
Weight in Air	1.5 lbs (0.74 kg)
Approx Weight in Water	1 lbs (0.45 kg)
Operating Depth	Delrin Housing (ALL VERSIONS) : 200 ft (60 m) Aluminum Housing (WITH BULKHEAD) : 1000ft (300 m)
Operating Temperature	0°C to 50°C (32°F to 122°F)
IMAGE	
Resolution	2 Megapixel (2000 x 1241)
Horizontal viewing angle	88 deg (in air)
Codec Image Size	1920x1080, 705x 576
Video Compression Format	H.264, H.265, AVI
Codec Streaming Capability	Dual streaming
Maximum frame rate	H.264: 30fps (1920×1080) H.265: 30fps (1920×1080)
Image device	1/2.9" type progressive scan SONY IMX323 CMOS sensor
Minimum Illumination	Color 0.001Lux@F1.2 B/W 0.0001 Lux@F1.2 IR cut filter (can be set by user on / off / automatic)
ELECTRICAL	
Power Requirements	PoE (IEEE802.3af compliant)
MAX Power Consumption	2.4W maximum
NETWORK	
Interface	RJ45,10/100M,Support RTSP/FTP/PPPOE/DHCP/DDNS/NTP/UPnP/SMTP
ONVIF	ONVIF 2.4 compliant