SAIS WIPER
FOR FLAT SURFACES

After corrosion, biofouling is probably the greatest challenge to keep underwater cameras, lights and instruments in good working order. SubAqua Imaging Systems (SAIS) Wiper for Flat Surfaces is designed to wipe flat surfaces like the front window of a camera, light or other underwater instrument. The wiper can be pre programmed by the user to perform wipes at set time intervals. It is an Ethernet or IoT device with full connectivity to the web so that it can also be accessed from anywhere that has a web connection to it. From the web interface, the user can:

• Program the wiper to complete wipes on a time-interval of minutes or hours.
• Modify the angle through which the wiper sweeps.
• Instantly activate the wiper. If there is something on your camera lens, instead of waiting for the next cycle, you can have the wiper complete a cycle immediately from the web interface.
• Set IP address and login password.

The wiper itself is comprised of synthetic bristles which are less attractive to marine flora and fauna. The arm is secured to the wiper shaft with a single stainless steel bolt so that it can easily be swapped out underwater when necessary. The external surfaces of the wiper unit are all plastic with no exposed metal so there are no surfaces to corrode. To provide the most economical solution possible we have employed commonly available PVC pipe to make the external body.

SAIS has wiper brackets that will mate the wiper assembly to any one of our flat port cameras or lights. Custom brackets are also available at affordable cost for your specific needs.

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Technical Specifications

PHYSICAL	
Body Material Wiper Material Wiper securing bolt and bracket bolts	PVC and HDPE plastic Synthetic fiber bristles 316 Stainless Steel Hardware
Diameter (at Widest Point)	3 in (76.2 mm)
Overall Length (without connector)	12.9 in (328 mm)
MAX Overall Length (with flex tail)	17.5 in (445 mm)
Weight in Air (Maximum, depends on options)	4.625 lbs (2100 g)
Approx Weight in Water	~2.4 lbs (1094g)
Operating Depth	328 ft (100 m)
ELECTRICAL	PoE or 12 VDC may be used
Nominal Power PoE DC	9 Watts (Max) IEEE 802.3af Type 1, Class 3 (13 Watts at wiper) 12 VDC @ 1.1A minimum at wiper
CONTROL	SAIS Graphical User Interface via webrowser
IP Address	Wiper can be assigned a unique IP address
Wipe Interval	Preset values for 2 min to 24 hour wipe intervals Plus "Wipe now" button for immediate wiping
Wipe Sweep	Preset wipe angles of 45°, 90°, 120° and 180°
Security	login name and password protected