

IP67 versatile Xenon Flash



Sx-IP is a versatile IP67 flash device designed for:

- Powerful pulses (up to 60J and more on request...)
- High repetition rate (up to 15Hz)
- Burst and very fast sequences (up to 9x 30J consecutive flashes)
- Long lamp lifespan (up to 30 Millions shots)

+ High light output

+ Burst Capability

+ Long lamp lifespan

+ IP67 design

Suitable for:

Traffic Enforcement



Precision Farming



Industrial Control



Ride Photography

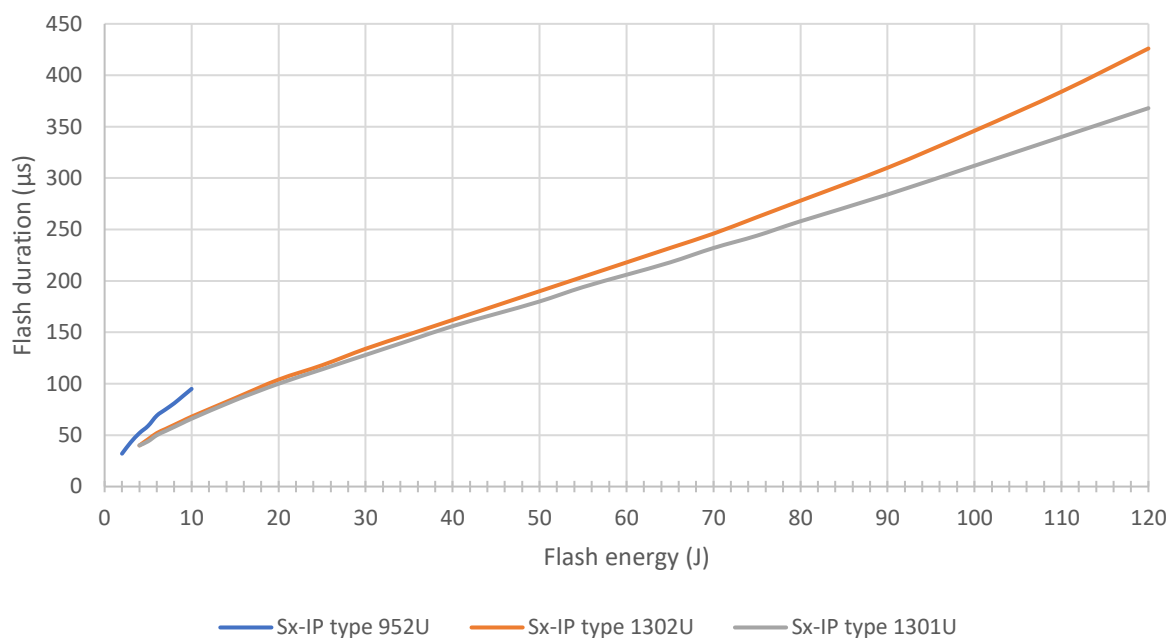


► Specifications

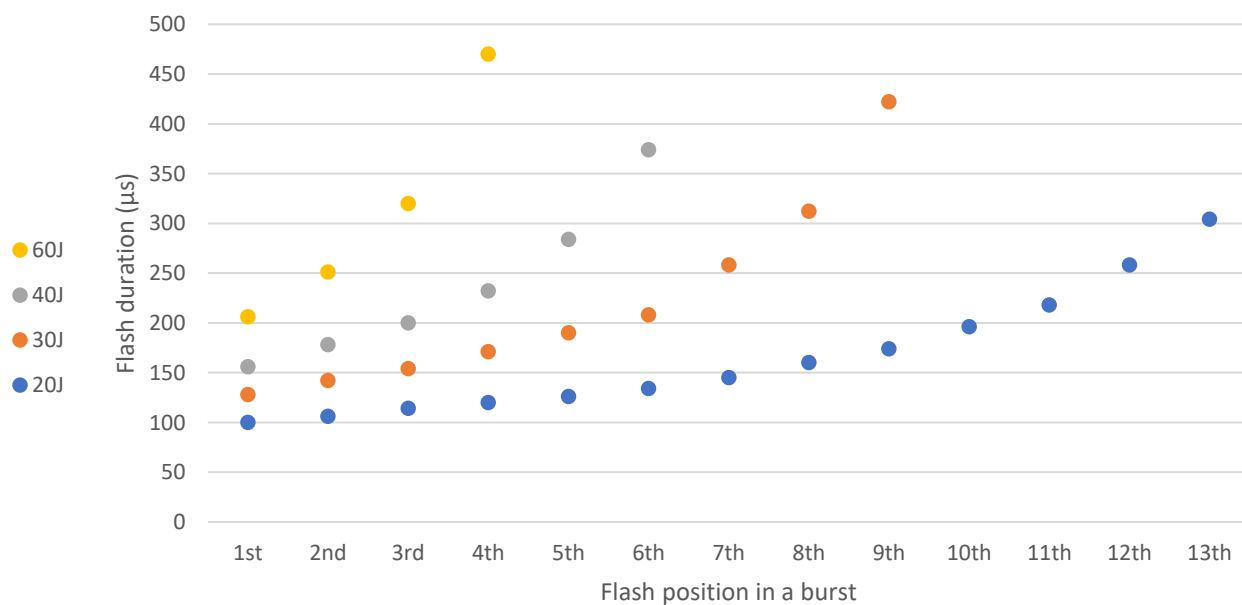
Energy per shot	2J to 60J
Pulse duration range	30 ~ 500µs
Standard beam angles	12° x 40° 20° x 30° 30°x40° 40°x70° 50°x70° 60° x 70°
Guide Number at 100 ISO / 20 J	25 f-stop.m
Burst capacity (10Hz)	• 4 consecutive flashes at 60J • 9 consecutive flashes at 30J • 12 consecutive flashes at 20J
Min. delay between flashes in a burst	20ms
Maximum repetition rate (continuous)	15Hz @ 2J
Input voltage	10.0 ~ 30.0Vdc
Maximum (peak) input current	6A
Peak input power	70W
Maximum average output power	• 30W continuous in all conditions (e.g. one 60J flash every two seconds, five 6J flash every second...) • 50W intermittently or according to conditions
Idle consumption	Less than 2W
Lamp lifespan	• 300 000 shots @ 60J • 2 000 000 shots @ 30J • 10 000 000 shots @ 6J • 30 000 000 shots @ 2J
Dimensions	H 95mm x W 136mm x L 185mm
Weight	1,5kg
Operating temperature (in the shade with no airflow)	-20°C to +75°C (80°C internal temperature protection) Nominal average output power (30W) is available up to 45°C then a 1W/°C derating should be applied down to 0W at 75°C. Higher average output power can be achieved with natural or forced airflow
Inputs and outputs	Up to six inputs compatible with open drain and push-pull drivers. Up to four open drain outputs (two are isolated).
Triggers	Up to four triggers and eight preprogrammed energy levels
Monitoring and control interface	RS485 Modbus link
Energy adjustment	• RS485 Modbus link or hardware selection • Back-panel selector available as an option
Day/night control feature	For each of the four triggers, device can switch between two energy levels. Can be done from an input or RS485 Modbus link.
Hardware interface	IP67. Amphenol Ceres + M12 circular connectors.
Optional modified light spectrum	Red and Infra-red

► Sample data

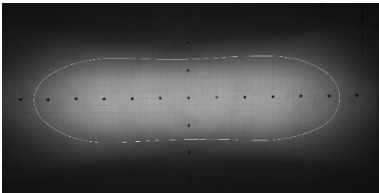
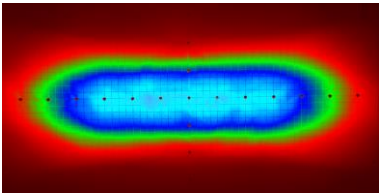
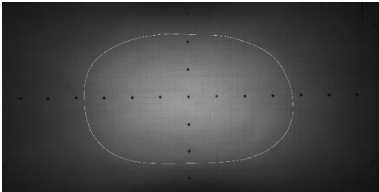
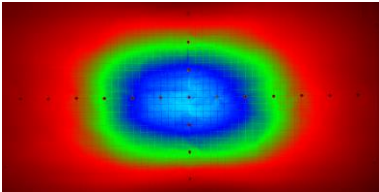
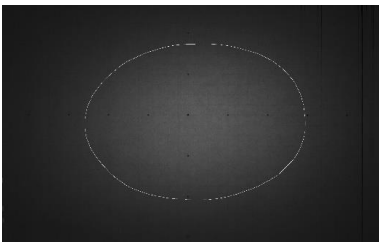
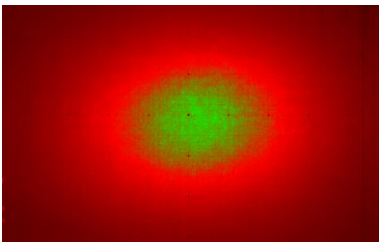
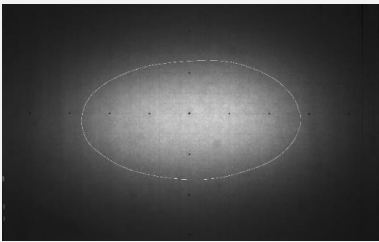
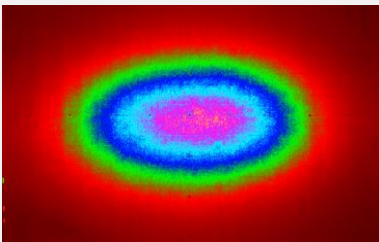
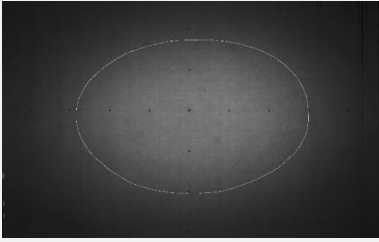
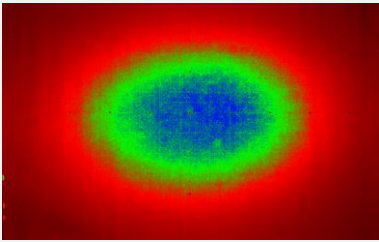
Examples of Sx-IP flash duration versus flash energy curves



Examples of flash duration versus the flash position in a burst



► **Beam examples**

Beam angle	Beam shape at 50%	6 shades look-up table
12° x 40°		
20° x 30°		
30° x 40°		
40° x 70°		
50° x 70°		
60° x 70°	