

CORDIN

SCIENTIFIC IMAGING

SQUARE PULSE LIGHT SOURCE

Model 606



- High intensity xenon flash output
(5.7 Million Lux @ 2 meter distance)
- Square pulse illumination
- Single fixed pulse duration
- Variable intensity
- Halogen modeling light
- Remote control via software
- Reflector zoom: variable output angle



The **Cordin Model 606** is a high intensity xenon light source that is designed to give even intensity output during the full pulse duration. This is useful for high speed imaging as constant exposure can be maintained throughout the record. Conventional xenon strobe units will follow a modified R-C intensity curve with a relatively gradual rise and decay. The 606 is designed to maintain a constant intensity across the pulse duration.

The Model 606 is configured with a single flash head. A variety of reflectors are available, with an 11.5 inch diameter parabolic reflector being standard.

The standard reflector dish for the 606 has a moveable “zoom” feature. The angle of the light output cone can be varied from approximately 50 degrees down to 10 degrees to suit the particular size of the subject.

The intensity of the flash output is also variable by selecting the charge voltage. This means illumination can be attenuated without changing the lighting set-up.

OPTIONS

Elliptical or small diameter reflectors

Tripod for flash head

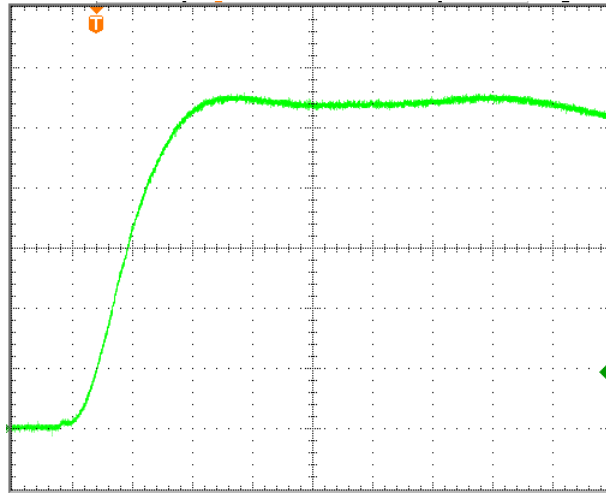
Low-cost single-use disposable head for use in damaging environments

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Horizontal axis: 100 μ s per division
 Vertical axis: Light intensity measured at 6 ft. from light source. (300K ft. lamberts per division)

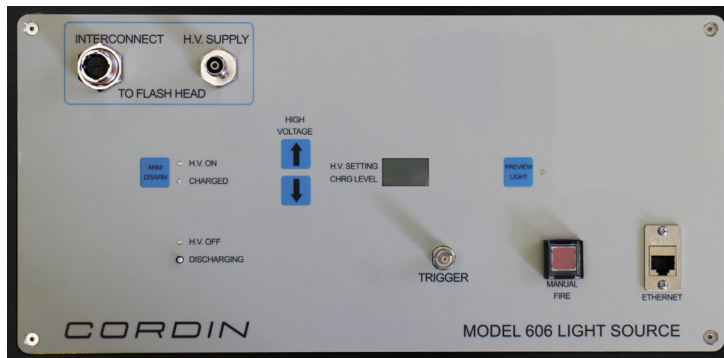
Output remains within 10% of peak during the 600 μ s nominal pulse duration (dashed line indicates 95% of peak)



Model 606 pulse output - intensity over time

SPECIFICATIONS

Flash Tube	Toroidal xenon	Response Time	30 μ s (trig. in to start output rise)
Color Temperature	5300° K	Flash Rise Time	250 μ s (trig. in to full output)
Light Pulse Width	600 μ s (fixed)	Power Input	110-240 VAC 50-60Hz, 500 Watts (max)
Intensity	5.7 Million Lux @ 2 meters (1.7 M ft.-lamberts @ 6 feet)	Cable Length	3 meter (std) / 10 meter (optional)
Voltage Range	800 - 1800 V (variable)	Base Unit Size	72 x 58 x 58 cm (28 x 23 x 23 inches)
Stored Energy	3400 joules at 1800 V charge	Base Unit Weight	89 Kg (195 lbs.)
Trigger Input	+3.3V to +20V (1k Ohm input impedance)	Flash Head Size	34 x 34 x 43 cm (13.8 x 13.8 x 17.0 inches)
		Flash Head Weight	5.7 Kg (12.5 lbs.)
		Remote Control	Windows GUI via Ethernet interface
		Weight	13 kg (29 lbs.)



Model 606 Main Control Panel
 (also can be controlled remotely via software application)