

# 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**

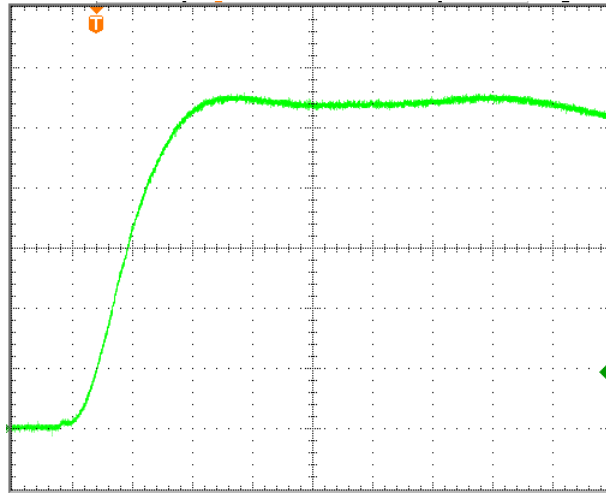
**Low-cost single-use disposable head for use in damaging environments**

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

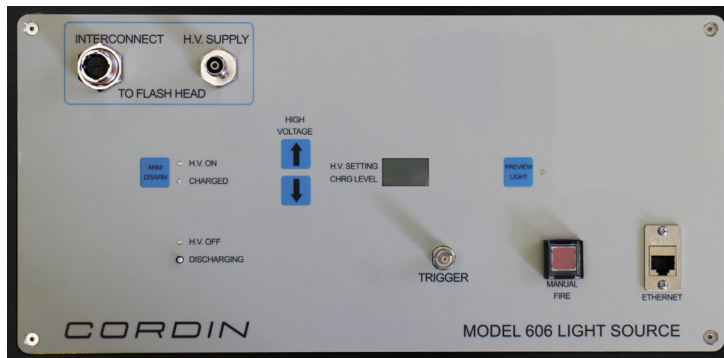
Output remains within 10% of peak during the 600  $\mu$ s nominal pulse duration (dashed line indicates 95% of peak)



Model 606 pulse output - intensity over time

### SPECIFICATIONS

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



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