

PRELIMINARY SPECIFICATION: SUBJECT TO CHANGE

# CORDIN

## SCIENTIFIC IMAGING

SQUARE PULSE LIGHT SOURCE

### Model 606 (New)

- High intensity xenon flash output
- Square pulse illumination
- Single fixed pulse duration
- Variable intensity
- LED modeling light



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 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**

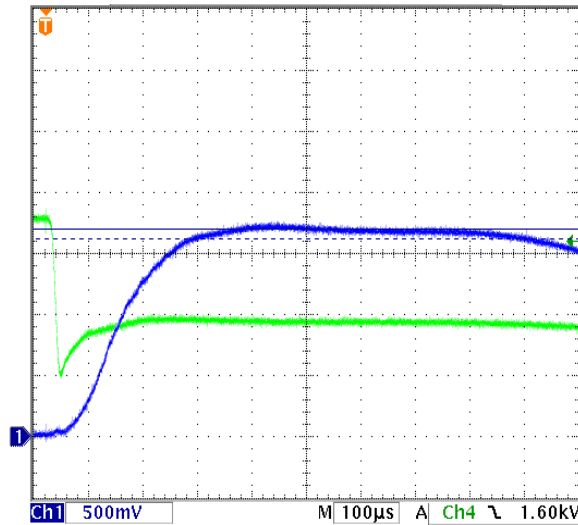
**Tripod for flash head**

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Horizontal axis: 100  $\mu$ s per division  
 Blue trace: Output in foot-lamberts @ 5 feet;  
 378K ft-lamberts per vertical division  
 Green trace: Tube voltage @ 500V/div

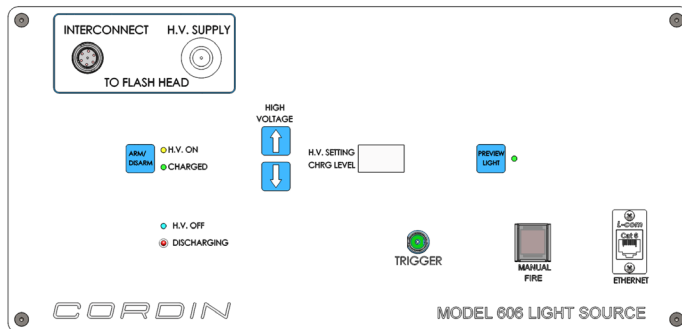
Output remains within 10% of peak during  
 the 600  $\mu$ s nominal pulse duration  
 (dashed line indicates 95% of peak)



Model 606 pulse output - intensity over time

### SPECIFICATIONS

|                          |                           |                          |   |
|--------------------------|---------------------------|--------------------------|---|
| <b>Flash Tube</b>        | Toroidal xenon            | <b>Voltage Range</b>     | 800 - 1800 V (variable)                     |
| <b>Color Temperature</b> | 5300° K                   | <b>Stored Energy</b>     | 3400 joules at 1800 V charge                |
| <b>Light Pulse Width</b> | 600 $\mu$ s (fixed)       | <b>Power Input</b>       | 110-240 VAC 50-60Hz, 250 Watts              |
| <b>Flash Rise Time</b>   | 250 $\mu$ s               | <b>Cable Length</b>      | 3 meter (std) / 10 meter (optional)         |
| <b>Intensity</b>         | $1.0 \times 10^7$ candela | <b>Base Unit Size</b>    | 72 x 58 x 58 cm (28 x 23 x 23 inches)       |
| <b>Trigger Input</b>     | +5V                       | <b>Base Unit Weight</b>  | 89 Kg (195 lbs.)                            |
| <b>Response Time</b>     | less than 30 $\mu$ s      | <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.)                          |



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

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