

# CORDIN

## SCIENTIFIC IMAGING

### HIGH VOLTAGE XENON FLASH

## Model 607

- Very high intensity xenon flash output
- Square pulse illumination
- Variable intensity
- Single pulse mode



The **Cordin Model 607** High Voltage Xenon Flash is a powerful light source for use in recording high speed events. The light output of the Model 607 is essentially constant for the majority of the pulse duration, enabling high speed records to be captured with uniform illumination.

The Model 607 offers very high light output. The power during the pulse is approximately five million watts, and surface brightness is many orders of magnitude greater than sunlight.

The flash is triggered with a rising edge +5V trigger, which can be supplied from a Cordin camera Aux output, from a Cordin time delay generator, or any other compatible device.

The Model 607 has a pulse width of approximately 500 $\mu$ s with an approximately 150 $\mu$ s rise time at the full 6KV charge level. Rise times for lower charge levels are longer, up to a maximum of 250 $\mu$ s.

#### OPTIONS

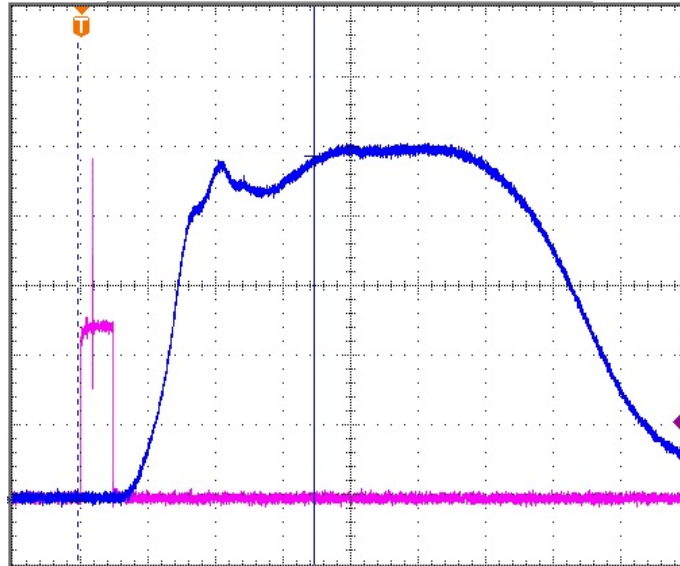
**Alternative size & shape reflectors (inquire for details)**

**10 meter cable (3m length std.)**

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Horizontal axis: 100  $\mu$ s per division  
 Blue trace: Output in ft-lamberts @ 6 feet;  
 400K ft-lamberts per vertical division  
 Magenta trace: Input trigger; 2.0 V / div



Model 607 light output - intensity over time

### SPECIFICATIONS

<b>Flash Tube</b>	Torroidal xenon	<b>Operating Voltage</b>	4.4 KV to 6.0 KV
<b>Color Temperature</b>	5300K (approx.)	<b>Stored Energy</b>	4K Joules
<b>Light Pulse Width</b>	500 $\mu$ s (within 80% of peak brightness)	<b>Power Input</b>	110-240 VAC 50-60Hz, 150 Watts
<b>Light Pulse Power</b>	5 Million Watts	<b>Cable Length</b>	3 meter (std) / 10 meter (optional)
<b>Flash Rise Time</b>	150 $\mu$ s	<b>Base Unit Size</b>	72 x 67 x 66 cm (28.5 x 26.5 x 26.0 inches)
<b>Intensity</b>	7M Lux @ 2 meter distance (2M ft-lamberts @ 6 feet)	<b>Base Unit Weight</b>	89 Kg (195 lbs.)
<b>Trigger Input</b>	+3.3V to +25V	<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



Model 607 Front Panel