

## SC-2000 Shutter Controller



One of the unique needs of video microscopy when using fluorescent labeled images is the ability to precisely limit exposure times. ASI's Shutter Controllers provide both the precise control and the fast response times that are required when working with these dyes.

The SC-2000 is a two-channel shutter controller that provides several means for control of the shutters. Shutter can be activated from a front panel switch, from TTL signals, from foot switches, or via RS-232 serial computer control. In addition to simple on/off control, the controller can also be configured to provide a programmable fixed shutter exposure time. The unit is designed to work with either normally open or normally closed shutters in both the tungsten and ultraviolet light paths of the microscope.

The switches on the front panel of the SC-2000 controller allow the user to directly activate the shutters. LED's display the state of each shutter.

Connections on the back panel provide for serial command, foot switch, and TTL Trigger inputs for each shutter. Additionally, SYNC OUT signals indicate when the shutters are open (if used with shutters equipped with sync sensors). The controller's firmware is updatable via its serial port using a PC computer by the user.

### Features

- SC-2000 can be operated manually, by foot switch, using remote triggers, or via computer control
- Accepts standard ASCII commands to open or close either shutter
- Works with normally open or normally closed shutters
- Configurable for programmable shutter exposure times

### Specifications

<b>Number of shutter channels</b>	2
<b>Opening Time (25mm N.C. shutter)</b>	8 ms
<b>Closing Time (25mm N.O. shutter)</b>	7 ms
<b>Peak Unsustained Repetition Rate</b>	40 Hz
<b>Maximum Sustained Repetition Rate</b>	5 Hz
	100 – 240 VAC
	50 – 60 Hz
	52 Watts
<b>Input Power Module (UL / CE approved)</b>	Maximum

### Product Compatibility

- Leica – DMI3000, DMI4000, DMI5000, DMI6000, DMIRB, DMIRBE, DMIRE, DMIRE2, DMLB, DMLS, DMLFS, DMRB, DMRP, DMRXP
- Nikon – AZ100, Diaphot TMD, Diaphot 200, Diaphot 300, Diaphot Eclipse TE200, Diaphot Eclipse TE300, Diaphot Eclipse TE2000, Eclipse 80i, Eclipse 90i, Eclipse 400, Eclipse 600, Eclipse 600FN, Eclipse 800, Eclipse 1000, Eclipse Ti, Microphot FXA, Microphot SA, Optiphot, Optiphot 1, Optiphot 2, Optiphot 200, Optiphot UD
- Olympus – IX73, IX83, AX70, BH2, BX41, BX50, BX50WI, BX51, BX51WI, BX60, BX61, BX61WI, IMT-2, IX50, IX51, IX70, IX71, IX81, MX50
- Zeiss – Axiomager, Axiolab, Axioplan, Axioplan II, Axiophot I, Axiophot II, Axioskop, Axioskop II, Axioskop FS, Axioskop FS II, Axiovert 35, Axiovert 100, Axiovert 100, Axiovert 100M, Axiovert 135, Axiovert 135M, Axiovert 200, Axiovert 200M, Axio Observer, Standard 16, Universal