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**Addendum to Operating Instructions
for the
SP-750 SpectraPro Monochromator
with Motorized Slit Option**

Ver 2.0

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SP-750AddMotorSlit.DOC

This Acton Research Corporation SP-750 SpectraPro Monochromator is supplied with one or more motorized slits. These slits are controlled only by commands through the SP-750 RS-232 port or IEEE-488 port. In addition to the commands listed, the command **SHOME** is used for initialization of the slits to 10 microns. This command, like all other slit commands, must be preceded by a slit designator such as

SIDE-EXIT-SLIT. The specified slit designator is effective until another slit designator is issued or until another command which controls or interrogates position of the wavelength or diverter mirror issued. For example, if the slit designator **FRONT-ENT-SLIT** is issued, you can then send the commands **100 MICRONS ?MICRONS 500 MICRONS** and they will all apply to the front entrance slit. If, however, you send the command **100 MICRONS** followed by **300 GOTO**, you must send **FRONT-ENT-SLIT** again before sending another command to the front entrance slit.

The slit motors are only energized when sending a command to control the designated slit. The slits remain in the position to which they were last set when the main power to the monochromator is turned off. This position is stored in non-volatile memory allowing slit position to be maintained with power on or off. It is recommended that when first setting up the SP-750 or after moving the monochromator to a different location, to send the command **SHOME** to all motorized slits. This initializes the designated slit to 10 microns. It can then be set to any desired width.