

## Introducing the Adirondack Flat Fielder™

Now making flats for your images is easier and more accurate than ever before! Using Electroluminescent (EL) technology, the Flat Fielder will produce flats comparable with sky flats with the convenience of a portable light box but with a thin, lightweight panel.

Engineered exclusively for Adirondack Video Astronomy by Aquest, Inc., the Adirondack Flat Fielder has been developed specifically for astronomical imaging use and is available in two sizes to accommodate all popular telescopes and cameras. Accurate field flatness has been achieved by careful design and steps taken to individually optimize each unit during the manufacturing process.

Two options of power supply units are available allowing manual (analog) control of brightness or digital control either locally with buttons and readout or via a computer for on-screen or remote control. Power supply inverters and drive circuitry have been custom designed to closely match the parameters of the EL lamps used. Several methods of mounting are available to allow the Flat Fielder to be mounted on a wall for observatory use, used with a tripod, or placed directly on the OTA or rigid dew shield.

### Specifications

	8" Flat Fielder	13" Flat Fielder
Useable Area	8" diameter	13" diameter
Overall Size	11" x 11" x 1/2"	16" x 16" x 1/2"
Weight	2 lbs.	3.5 lbs.
Light Output Range	1 - 16 lux	1 - 10 lux
Light Output Variation (Panel Surface)	+/- 8% typical	+/- 10% typical
Flat Field Variation (Image)	+/- 0.4% typical	+/- 0.5% typical
Approx. Exposure Times (to 1/2 Saturation) *	2-10 seconds	2-10 seconds
Mounting Options	Wall (standard) Tripod (opt. adapter) OTA (opt. adapter)	Wall (standard) Tripod (opt. adapter) OTA (opt. adapter)
Power Supply Input Power	+12V @ 500ma	+12V @ 500ma
Analog Power Supply (standard)	Knob Adjustment	Knob Adjustment
Digital Power Supply (optional)	Up/Down Buttons, 7 Segment Readout, Recalls Last Setting, PC controllable (RS-232 or pulse inputs) - RJ-11/6 connector  PC Control Program with 127 brightness steps	Up/Down Buttons, 7 Segment Readout, Recalls Last Setting, PC controllable (RS-232 or pulse inputs) - RJ-11/6 connector  PC Control Program with 127 brightness steps

\* Times shown for f/4 to f/10 focal ratios with f/4 flats 1x1 binned, f/10 flats 2x2 binned