

## Borg Multi-Flattener [8670]

The Borg Multi-flattener, part number 8670 is designed for use as a photographic field flattener for Borg 100, 125 and 150mm refractors when used with medium format cameras such as the Pentax 67 line or Mitsuboshi astro cameras. The information shown below refers specifically to the Pentax 67 camera mount, but also applies to other Borg compatible camera interfaces.



The flattener assembly consists of 3 pieces – a large section (L), containing the flattener optics, a medium (M) width spacer 20 mm wide, and a small (S) spacer section 11 mm wide.

These three sections are threaded on each of their ends so that the flattener optics can be placed at the correct distance from the film plane for each of the supported Borg objectives. When screwing the sections together, use care to avoid cross threading the fine threads, and do not over tighten or grip them too tightly as it is possible to deform the spacer sections if too much pressure is applied.

The front end (objective end) of the Multi-flattener accepts the Borg filter ring adapter [8782] which allows the use of a 72mm or 82mm filter.

The order of the sections is specified from camera end of the telescope which is on the right side of the accompanying photographs:

Objective Diameter (mm)	Focal Length (mm)	Flattener Configuration
100	640	S-M-L
125	800	S-L-M
150	1000	L-M-S



With the flattener configured to match the objective, it can be attached into the camera interface as shown at upper left and lower left. The male threads of the resulting multi-flattener assembly go into the camera adapter unit. Note that in this example, the flattener is configured in the order (from the camera end) S-M-L, indicating that it will be used with a Borg 100mm scope.



To remove the multi-flattener assembly from the camera interface, first unscrew the camera side of the interface (see below right), then unscrew the multi-flattener assembly. This insures that all sections of the multi-flattener are unscrewed together rather than separating the sections of the multi-flattener.

