

JANDEL

Light Shrouds for use with Jandel Engineering Four Point Probing Equipment

Jandel offers three types of light shrouds:

- 1) The **Small Shroud** which is primarily for adding stability when probing onto samples by holding the probe head by hand.
- 2) The **Large Shroud** which covers enough area that it can be used to give protection from light for light sensitive samples up to 2" in diameter. A light shroud has to completely cover the sample being tested for it to block the affects that light can have upon four point probe measurement of light sensitive materials.
- 3) The **Black Cloth Shroud** which can be draped over any Jandel probe station which does not already include an integral light shield. (see page 4 of this document). The black cloth shroud will provide effective light protection for relatively large samples.

Small Shroud

The **Small Shroud** is a one-piece Delrin ring (with a lip) that can be fitted onto the nosepiece of the Jandel **Cylindrical**, **Compact**, or **Cartridge with Lead** four point probe head models. It is designed to help steady the probe when applying the probe head by hand.



Small Shroud

Each shroud is turned to fit the nosepiece it is supplied with - they should also fit probes of the same type (e.g., you could move it from one Cylindrical to another, but not necessarily from a Cylindrical to a Compact). The shroud is adjusted so that it fits the height of the pad on the probe it is supplied with - therefore if moving it from one cylindrical to another there may be a small change in load applied if the two probes have different pad styles or thicknesses. This is for informational purposes as it really shouldn't affect day-to-day usage.



Small Shroud Mounted onto the
Nosepiece of a Cylindrical Probe

Continued

Jandel Compact Probe without Small Shroud Installed



Jandel Compact Probe with Small Shroud Installed



The Small Shroud can be used with Jandel Cylindrical, Compact, and Cartridge with Lead four point probe heads.

Large Shroud

The **Large Shroud** is a two piece unit that also fits onto the nosepiece of the probe head, but which is designed to be used with one of the Jandel probing units such as the **Microposition Probe**, the **Multi Height Probe**, or the **Multi Height Microposition Probe**. The **Large Shroud** shields from light an area up to 2" in diameter. The two piece design helps insure a good light seal.



The Large Shroud has a two piece design

Continued



The Large Shroud installed on a Jandel Cylindrical Probe



The Large Shroud shown in use on the Multi Height Microposition Probe.

The Large Shroud is used in conjunction with one of the Jandel four point probing stands to add light protection. The [Multiposition Wafer Probe](#) includes an integral light shield, however, the Large Shroud can be used in conjunction with the [Multi Height Probe](#), the [Multi Height Microposition Probe](#), or the [Microposition Probe](#) to add light protection for samples up to 2" in diameter.

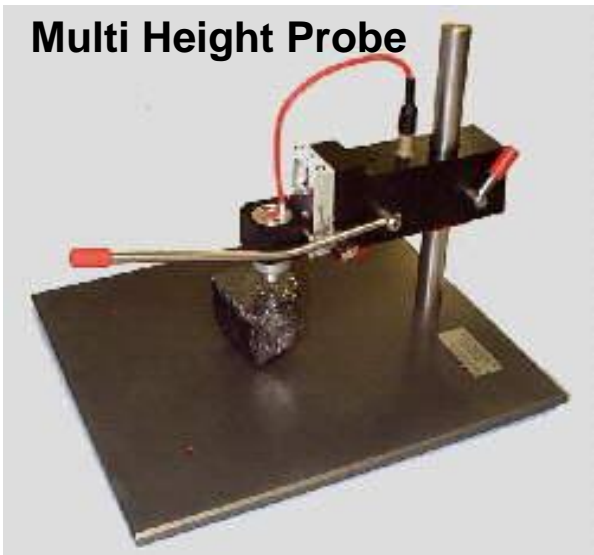
Black Cloth Shroud

To protect light sensitive samples from light when using a four point probe system which does not have an integral light shroud.

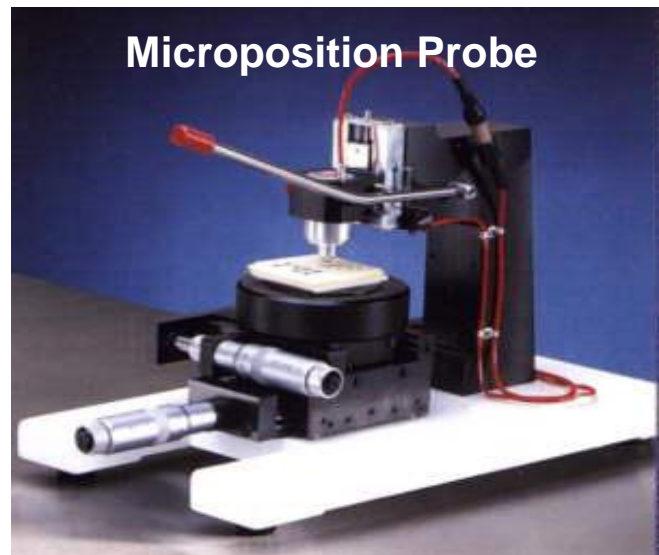
The black shroud cloth measures 65cm to 70cm square and is made of black velvet with a black cotton lining. It can be draped over the four point probe station to provide light protection. The Jandel Multiposition Wafer Probe and the Jandel Universal Probe include integral light shields. The black shroud cloth can be used with the following Jandel Probe models to provide light protection when measuring samples which are light sensitive:



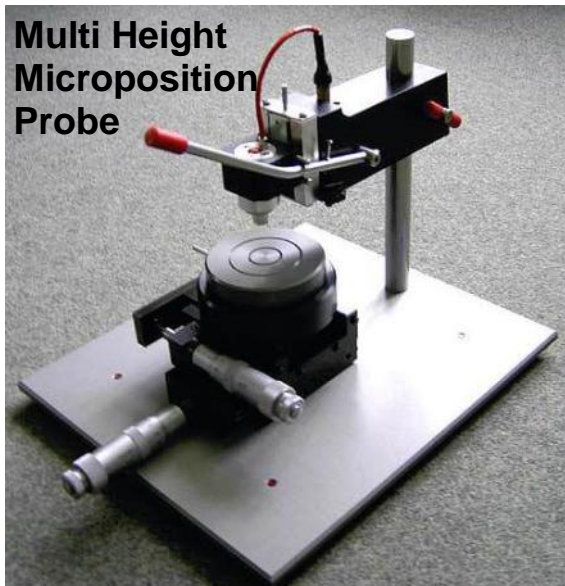
Multi Height Probe



Microposition Probe



**Multi Height
Microposition
Probe**



Hand Applied Probe

