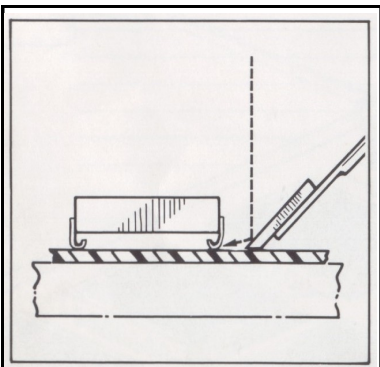
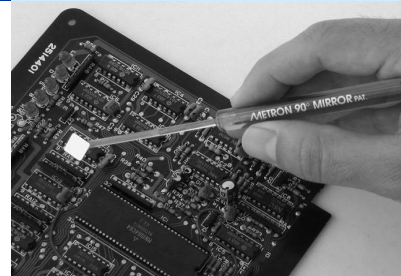


METRON® 90° MiniMirror®

Patents

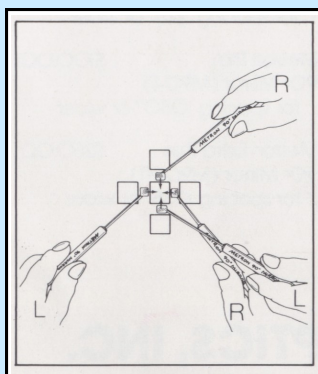
Metron Optics, Inc. manufactures highly reflective, optically clear, front and rear surface mirrors. These MiniMirrors® are precision, hand-held instruments available with optional exclusive Diamond Coating that helps prevent scratches. Used throughout the electronics, industrial, medical and dental fields, Metron MiniMirrors are designed "to let you see where you couldn't before."



The flat edges of the mirror are beveled to permit the mirror surface to coincide with the surface of the PCB. That lets you see under the component even if there is very little space.

The right-angle shape of the two flat edges lets you see front, back and sides with either hand. The flat edges of the mirror are beveled to permit the mirror surface to coincide with the surface of the PCB. That lets you see under the component even if there is very little space. The Metron 90° Mirror is made very thin to permit its use to 90° even where the parts are closely spaced. The Standard Metron 90° Mirror can be used to 90° wherever the spacing is .225" or wider (and components no higher than .225" from the PCB). When there are component spacing which are

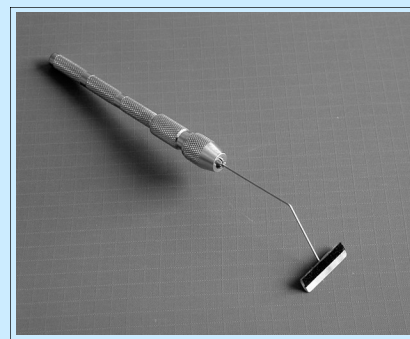
much narrower, there are additional thinner Metron 90° Mirrors available.



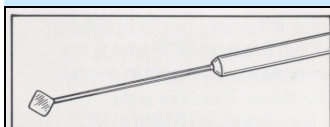
and any component height. To see diagonally down a row, tilt the thin mirrors on end and aim down the row. All four sides of a component may be examined by switching the mirrors from one hand to the other.

The .120" wide Metron 90° "Thin" mirror (M90T) can be used with component spacing about .080" wide and any height components. For PCB's with Surface Mount Devices spaced even closer, the .050" wide Metron 90° "Extra Thin" mirror (M90XT) can be used with component spacing of only .035"

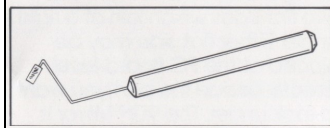
The Metron BGA MiniMirrors (184-BGA or I86-BGA) are specially designed to inspect both the outer and inner rows of the Ball Grid Arrays. These MiniMirrors are self standing or hand held and are mounted on a flexible telescopic wire shaft. They come with an option of Stainless Steel or Black handle.



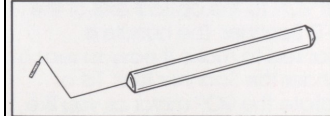
**Metron MiniMirror®
184BGA-ST**



**Metron Standard
90°Mirror
(M90S)**



**Metron Thin
90°Mirror
(M90T)**



**Metron Extra Thin
90°Mirror
(M90XT)**

Allowing you to see "Where you couldn't see before". Precision instruments designed to fit into extremely tiny spaces. A variety of sizes, styles and angles for your special needs. Ridged and flexible tools in 90° views or to bend as needed for your perfect view.

Metron MiniMirrors are Optically Clear Quality for bright and sharp reflections. Made of glass, all have beveled edges and are polished for maximum strength. Mini-Mirrors as small as 0.035" diameter. Some mirrors are autoclavable.

A full line of standard mirrors, as well as custom design services. Exclusive Diamond "Scratch resistant" coating is optional.

**Manufactured by Metron Optics, Inc.
San Diego, California USA**

MO-MKT 014D-RevG