



RESEC SYSTEMS, INCORPORATED

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Model J184 Custom Video Gage Measures Rubidium Deposit inside Glass Bulb

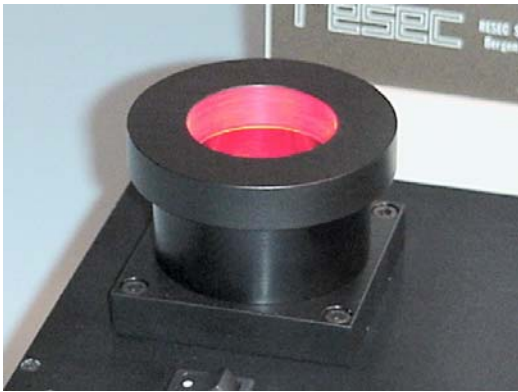


- Maximum and Minimum Diameters
- X and Y Diameters
- Total Area of Deposit
- Accuracies to $\pm 0.0005''$

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The Model J184 Video Gage is specifically designed to measure Rubidium deposits contained in frequency standard lamps.

These deposits are typically difficult to image properly (and therefore hard to measure) because of the curvature of the glass and the deposit itself, which causes a variety of undesirable reflections.



This equipment utilizes a specially designed light source, residing in the well shown at left, that provides a sharp and high definition image of the metallic area.

The Video Processor automatically locates the metallization area, which appears black on the image (below), and calculates the center of the deposit.

Twelve points are extracted (every 30°) around the circular shape.

From this data, maximum and minimum diameters, as well as diameters along the X and Y axes are calculated and displayed.

The area of the deposit is also calculated and displayed on the monitor.



Any of the above measurements can be exported on demand to a data collection system via the unit's serial port.

The measurement cycle time, is just under 1/2 second, providing virtually constant update to the screen.