

# RS-2200 Technical Specifications

## General

|                                    |   |
|------------------------------------|---|
| <b>Camera Type</b>                 | Single chip Monochrome CMOS camera with Firewire interface <ul style="list-style-type: none"> <li>• 3000 X 2208 monochrome pixels</li> </ul>  |
| <b>Camera Module Size (max)</b>    | 450 mm height X 150 mm diameter   |
| <b>Defect Detection Capability</b> | Minimum Defect Size Detected: As small as 60 µm in the smallest direction on the disc, depending on contrast.<br>Minimum Threshold of Detection: 7-10 grey levels above average image noise level<br>Contrast Level: Minimum required defect to background contrast level varies with defect type and metallization relectivity |
| <b>Types of Defects Found</b>      | <ul style="list-style-type: none"> <li>• Pinholes</li> <li>• Ink Splatter/Streaks</li> <li>• Scratches</li> <li>• Dust</li> <li>• Bumps / Indents</li> <li>• Lacquer Defects</li> <li>• Cracks</li> <li>• Delaminations</li> </ul>  |
| <b>Hardware Components</b>         | Industrialized personal computer complete with image acquisition module; I/O interface module to PC; monitor; Windows® Operating System<br>Camera module with integrated lenses<br>Up to 2 Solid state light sources for excellent surface defect detection performance<br>7.5 m Camera and I/O Cables<br>Documentation Package |
| <b>Software Modules</b>            | <ul style="list-style-type: none"> <li>• Intelligent Defect Analysis</li> <li>• Presets for Different Setups</li> <li>• Automatic Light Setup</li> <li>• Production Statistics</li> <li>• Large Dynamic Range Light Adjustment</li> </ul>   |
| <b>GUI Language Support</b>        | English – Other languages on request  |
| <b>Reject Classification</b>       | By Size, by Location (Cartesian or Zone) and Geometry   |
| <b>Cycle Time</b>                  | Up to 120 parts per minute depending on print machine cycle<br>Acquisition is completed in 200 msec   |
| <b>Required Disc Alignment</b>     | To within +/- 0.5 mm  |
| <b>Number of Camera Heads</b>      | Up to Two IADs (Image Acquisition Device) supported per processor   |
| <b>Mounting</b>                    | Flat mounting base with adjustment options  |
| <b>Operating Conditions</b>        | Power: 100-240 VAC, 500 watts, 50-60 Hz. Temperature: 10-40 °C (50-104 °F) Humidity: 10-60% RH (non-condensing)   |
| <b>Fast Transient Immunity</b>     | Conforms to IEC 61000-4 level 2   |
| <b>Air Requirement</b>             | Fine filtered medical-grade dry air feed capable of 1-2 bar (15-30 psi) pressure. Flow rate of 0.1 m3/min (3 cu. Ft./min)   |