

**TECHNICAL SPECIFICATIONS FOR**  
**MICROCHANNEL PLATE DETECTOR AND PHOSPHOR SCREEN ASSEMBLY**

The detailed specifications for the microchannel plate detector and phosphor screen are given below.

**DETAILED SPECIFICATIONS**

<b>S.No.</b>	<b>Item</b>	<b>Description</b>
1.	MCP detector	<ul style="list-style-type: none"><li>• Type: Circular</li><li>• Channel diameter: Between 12 - 25 <math>\mu\text{m}</math></li><li>• MCP gain stages: Multi stages (Between 1-3)</li><li>• Open area ratio (OAR): <math>\geq 60\%</math></li><li>• Outer assembly diameter: <math>\geq 80\text{ mm}</math></li><li>• Maximum height: <math>\geq 15\text{ mm}</math></li></ul>
2.	Phosphor Screen	<ul style="list-style-type: none"><li>• Peak emission wavelength: <math>\geq 500\text{ nm}</math></li><li>• Relative energy efficiency: <math>\geq 1</math></li><li>• Decay time: <math>\geq 0.3\ \mu\text{s}</math></li></ul>

Additional Requirements:

1. Mandatory 1 year Warranty period for all parts, accessories, and components.