



United States Department of Agriculture

Research, Education, and Economics
Agricultural Research Service

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SUBJECT: Minimum Specifications for Cottonscope instrument

1. The Agriculture Research Service has a need for a Cottonscope instrument to support fiber quality research operations.
2. Minimum specifications are:
 - Automatic measurement of cotton maturity using polarized light image analysis
 - Automatic measurement of cotton ribbon width using image analysis
 - Automatic measurement of cotton fiber fineness
 - Automatic calculation of micronaire for cotton fiber
 - Compliance with ASTM D8394-21 Standard Test Method for Automated Measurement of Maturity, Fineness, Ribbon Width, and Micronaire of Cotton Fibers
 - Double guillotine cutter for fiber preparation
 - Spare parts kit required for instrument maintenance

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