

Technical Specification for Connector End-Face Inspection Tool

S.NO	Desired Essential Features :	Comply/ Not Complied	Ref. Page No.
1.	The tool would be used to properly inspect fiber-optic cables to identify defects and scratches (against IEC/IPC standards or user-defined criteria), and determine their impact on connector performance (accurate pass/fail verdicts).		
2.	Should have facility for Interchangeable nozzles for future compatibility with MPO, MTP, QODC-12, & OptiTip MT connectors inspection.		
3.	Must have simple arrangement to inspect single- or dual-row fiber connectors (12/24 or 16/32)		
4.	Should have ergonomic design and rotation capabilities made for dense/recessed patch panels		
5.	Should have a feature to enable pass/fail LED indicator for Screenless operation when required (on IEC standard)		
6.	Should have Automated photo capture rendering		
7.	Tool probe should be able to inspect multifiber and single-fiber connectors		
8.	Tool should be able to perform Image capture of connector end-face		
9.	The tool should have feature to self-adjusts the image centering to ensure that all inspection zones are visible, and then automatically adjusts the focus to achieve the best optical resolution.		
10.	Should have Automatic fiber image-focus adjustment		
11.	Should have USB or Ethernet connectivity to PC		
12.	Should have Wireless connectivity to PC & smartphone		
13.	Should have Semi-automated multifiber inspection capability with suitable additional Nozzles		

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1.	Weight : light weight(less than 0.5 kg typical)		
2.	Resolution : 0.50 μm or better		
3.	Camera sensor : Five-megapixel CMOS or better		
4.	Visual detection capability : <1 μm		
5.	Field of view/ Digital magnification : Magnification between 300 μm x 300 μm (high)		
6.	to 900 μm x 900 μm (low)		
7.	Light source : Blue LED or better		
8.	Lighting technique : Coaxial or better		
9.	Connector : Micro USB		
10.	Connectivity : WiFi 802.11g		
11.	Frequency band : 2.4 GHz		
12.	Smart device OS compatibility : Android 4.4 and above, iOS 9 and above		
13.	Power : Must have the option for removable rechargeable battery		
14.	Battery Autonomy : ≥ 8 hours or better		
15.	Battery Recharge time : ≤ 4 h or better		
16.	Distance range for wireless connectivity : 2 m or better		
17.	Internal Memory: 2GB		

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified)