

Optical Transceiver Inspection System

OTIS V1.5

KEY FEATURES

- Support all type of optical transceivers (SFP, SFP+, QSFP...)
- End face auto inspection according to IEC
- Read EEPROM information with validation check
- OCR validation check
- External cleaning system

APPLICATIONS

- Optical Transceiver Pre & Post end face inspection
- EEPROM validation check
- Re-programming EEPROM

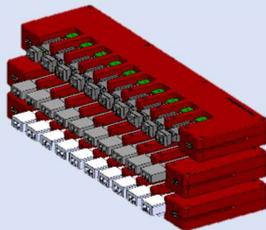


OPTICAL TRANSCEIVER INSPECTION SYSTEM (OTIS V1.5) is an most powerful automated inspection and validation check system of optical transceiver and it can perform the end face inspection, validation check with read EEPROM information via optical transceiver tray. OTIS are supporting “auto focus”, “auto centering” and “auto positioning” without any limitations. Auto functions are given an advantage to get accurate pass/fail judgement. The inspection is compliance with IEC standards or customized standards. Optical transceiver tray able to support 10 x transceivers for testing and it is providing communication interface between optical transceiver and system. All inspected result is saved into internal database (like as MySQL based) or to external customer database via ethernet network. It can support IQC and OQC management with external customer database.

OTIS, Optionally, is supporting OCR recognition, Cleaning System and Programming functions beside of OTIS basic function.

OPTICAL TRANSCEIVER TRAY

- There are three types of tray
- SFP/SFP+ form factor
 - XFP form factor
 - QSFP form factor



PERFORMANCE

- Read EEPROM information
- Auto position, focus and inspection
- Less than 6s per Port for Inspection, Positioning, Auto Focusing and Save a result
- Inspection Profile according to IEC – Create/Edit/Delete



OCR System

- OCR system is recognizing barcode of label
- Compare programmed data
 - Quality of label



CLEANING System

- Cleaning system are providing
- Cleaning for failed transceiver
 - Requires cleaning tips per type of port



GENERAL SPECIFICATIONS

PARAMETER	SPECIFICATION	NOTE
Dimension (mm)	500 x 350 x 300	
Weight (Kg)	Approx. 20.00	Only Main System
Operational Temp (°C) / Hum (%)	-10 to 50	
Storage Temp (°C) / Hum (%)	-15 to 65	
Power Input	24VDC via AC/DC Adaptor	AC Input: 100 to 240VAC

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION	NOTE
Inspection length (max)	250mm	Tray, x10 Optical Transceiver
Method of Focus	Liquid Lens	
Max Focusable Distance	< 1.00 mm	Using Liquid Lens
Inspection Duration	Less 6s per port (including positioning, centering, focusing and inspection)	
FOV (Field of View)	Depending on Objectives	
Min. Resolution	7.94µm@X/Y Axis, 3.18um@Z Axis	
Focusing Time	Typically, <2s	
Inspectable ferrule / fiber	Single-Mode, Multi-Mode, Multi-Fibers (MT ferrule)	
Inspection Profiles	IEC standard profiles, customized profiles	
Supportable module	SFP, SFP+, XFP, QSFP series	Need Tray depending on form-factor

ORDERING INFORMATION

PART NO	DESCRIPTIONS	NOTE
OTIS-01 ⁽¹⁾	OPTICAL TRANSCEIVER INSPECTION SYSTEM (V1.5) Included 24VDC AC/DC Adaptor, USB3.0 Cable, Installation USB memory stick	
OTIS-01-01	Optical Transceiver Tray for pluggable of 10 x SFP/SFP+ series	
OTIS-01-02	Optical Transceiver Tray for pluggable of 10 x XFP	
OTIS-01-03	Optical Transceiver Tray for pluggable of QSFP series	
OTIS-02 ⁽²⁾	OCR System	
OTIS-03 ⁽²⁾	Cleaning System included cleaning head, LC bulkhead cleaning tip, Interface cable	

(1) Require, External PC or Laptop for operation (Windows Based)

(2) Require OTIS-01 System