Automated testing of your ICR & ACO-Rx

CoRx-Tester

Automated Coherent Receiver Tester

KEY FEATURES

- Vast coverage of key OIF test parameters in under 2mins
- Automated one-click testing
- Intuitive dedicated software
- De-embed your test jig
- Future proof and scalable modular design
- Based on the flexible multi-functional MTP-1000 platform
- Ethernet and USB connectivity

coherent solutions

complexity made simple.

CoRx-Tester

Coherent Solutions' CoRx-Tester provides automated measurement of key coherent receiver performance parameters.

The CoRx-Tester is comprised of a pre-configured MTP1000 chassis, a two channel LaserBlade, a PolBlade (Polarization Controller) and a VOABlade (Variable Optical Attenuator) with built-in power meter. Just connect the two optical outputs to your ICR, connect your ICR to the oscilloscope and let the CoRx-Tester software do all the rest.

CoRx-Tester works with Teledyne LeCroy's WaveMaster or LabMaster series of Real-time oscilloscopes which offer the most powerful and highly integrated Optical Modulation Analyzer (OMA) software package. The CoRx-Tester is well positioned to provide key hardware performance characterization and also add-on the optical signal measurement functional test capability with the optional Optical-LinQ OMA software package.

The MTP1000 can be used for general purpose testing with a wide variety of Blades that can be added for your testing needs. Making the CoRx-Tester a truly flexible and versatile tool for any environment.

Key Features

Automated sequential testing

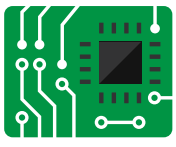
The combination built-in computer and dedicated software enables automated measurement of all available parameters to save you valuable test time and reduce human error for accurate and reliable results, everytime.

Vast coverage of key OIF Test parameters

CoRx-Tester measures and reports a broad range of OIF test parameters, with plans of continuous expansion of the measurement parameters via software upgrade and hardware add-ons.

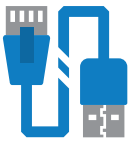
Intuitive dedicated software

CoRx-Tester comes with a dedicated software equipped with automatic device discovery to greatly simplify the test set up procedure. The software gives access to all the measurement parameters and graphs, giving you the full insight into your device's performance.



Built-in controller for remote communication

MTP1000 has a built-in single board PC which provides fast and flexible access to each internal components to enable easy remote communication and automation.



Flexible connectivity: Ethernet or USB

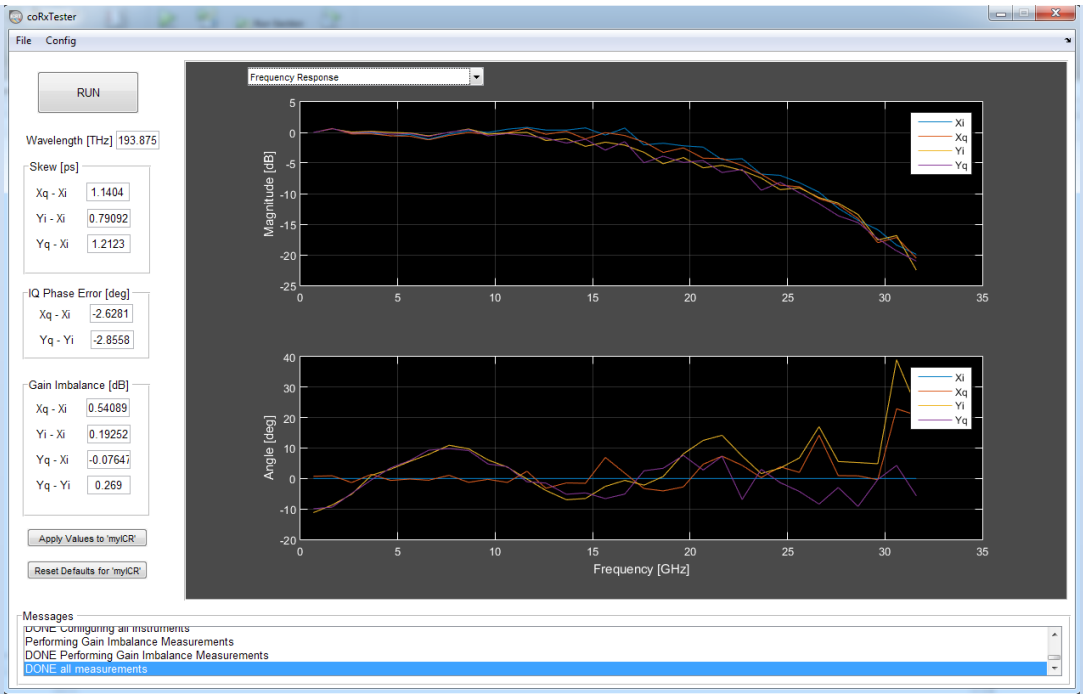
Equipped with both Ethernet and USB connectivity, it is effortless to connect and control MTP1000, whether you are working remotely via Ethernet or making measurements using a locally connected PC.

Futureproof

MTP1000 platform enables you to use the test platform for a multitude of other test configurations. The MTP1000 supports lasers, VOAs, switches, power meters polarization controllers and more modules coming soon.

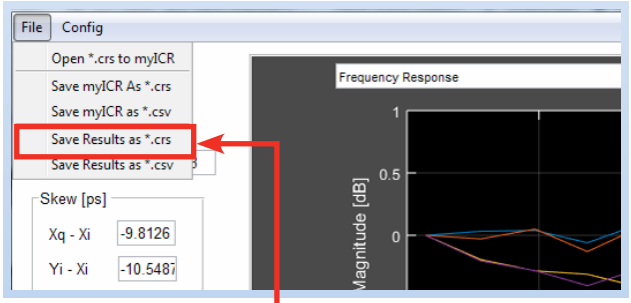
Intuitive Software

The user-friendly CoRx-Tester software let you set up and perform automated sequential test at the press of a button. With various visualizations to display the measured characteristics of the hardware you get a comprehensive understanding of your device in a matter of minutes.

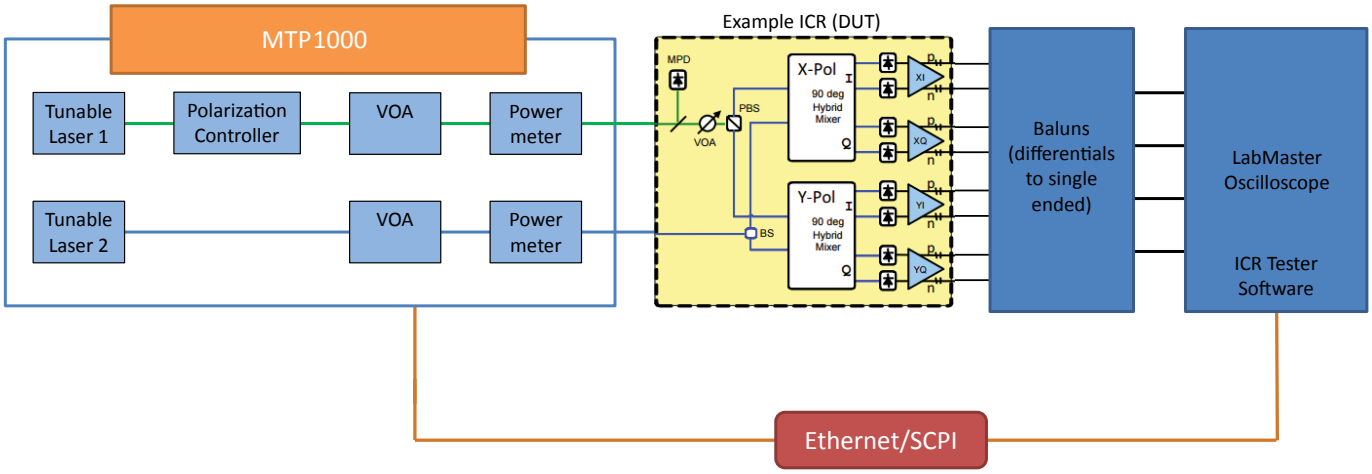


Full Compatibility with Optional Optical LinQ OMA Software

Save the results as *.crs file that can be imported into Optical LinQ. This provides an easy, quick and reliable path to using your coherent receiver as part of the OMA system.



ICR Testing Schematic Diagram



Specifications

Coherent Receiver Tester

Wavelength support	C or L band
Composition	2CH LaserBlade PolBlade 2CH VOABlade (1CH PMF & 1CH SMF)
ICR DUT Requirements	If with differential outputs, 4 baluns are required
MTP1000 Dimensions	220 x 480 x 500 mm | 8.7 x 18.9 x 19.7 in
PC Interface Method	USB 2.0, Ethernet
Operating System Requirement	Windows 7, 8 or 10 (32 or 64 bit)
Power Supply	~100-240 V; 50/60 Hz; 500 W
Operating Temperature Range	5°C to 45°C | 41°F to 113°F
Storage Temperature Range	40°C to 70°C | -40°F to 158°F

OIF-DPC-RX-01.2	
Channel Skew	✓
Channel Skew Variation	✓
p,n skew	✓
Gain Control Accuracy	✓
IQPhase Error	✓
Total Harmonic Distortion	✓
Image Suppression versus frequency	✓
Magnitude Frequency Response	✓
Signal Bandwidth 3dB	✓
Low Frequency Cutoff	✓
Common Mode Rejection Ratio (DC) Signal to IQ	✓
Common Mode Rejection Ratio (DC) LO to IQ	✓

Additional Measurements	
EVM versus Frequency	✓
Gain Imbalances	✓
Phase Difference versus Frequency	✓
Absolute Phase versus Frequency (True Phase Option)	✓

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To find out more, get in touch with us today.

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