# Remote Fiber Test System

OCAMS 2000 / RFTS

The Remote Fiber Test System OCAMS 2000/RFTS is an intelligent system which automatically and continuously monitors optical fibers 24 hours a day.The system with flexible and modularized design can be utilized with different optical networks.

The RFTS also provides comprehensive test and analysis of optical fibers, GIS map-based interface, precise fault location, practical cable management and kinds of instant alarm notification to assist operators to maintain the highest levels of QoS and control conditions of optical fiber networks.
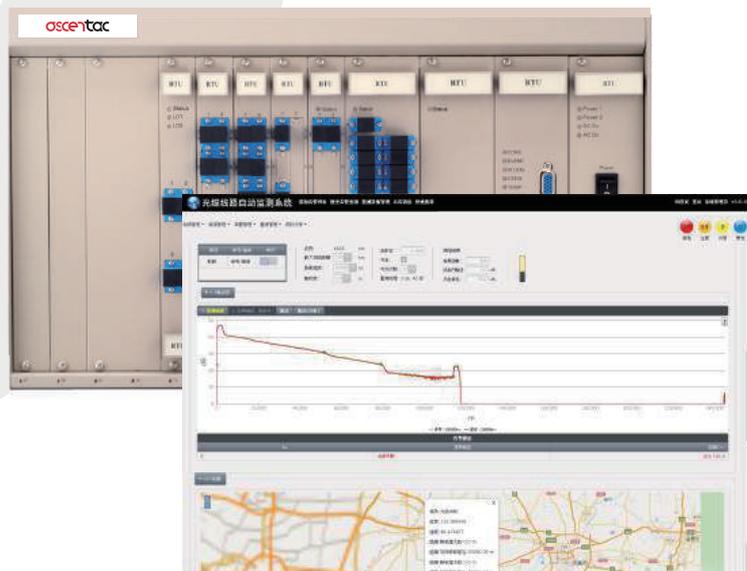
Key Feature

▌ The only Real-Time Monitoring System on the market

▌ Unique RFTS test method for cables management with E-Map

▌ Fault-on-map feature with GIS-based network document

▌ 24/7 detection, location and tracking of fiber degradations

▌ Scalable modules for all choices

oscentac

A Real-time Consultant to Problem-pointing and Cables Management

With sophisticated functions such as complete network status schematic viewing,alarm management and reporting, RFTS is the only truly reliable monitoring solution that enables you to integrate all your network operations and maintenance activities into one monitoring system.

RFTS also provides an operation interface based on GIS for mapping of as-built and fault-on-map features. If you are considering purchasing a monitoring system for your current needs but are worrying about scalable and full-integrated problems,RFTS provides an excellent entry point and it is free to scale modules for all your monitoring needs. Plus, it migrates seamlessly to a complete monitoring solution whenever you extend modules.
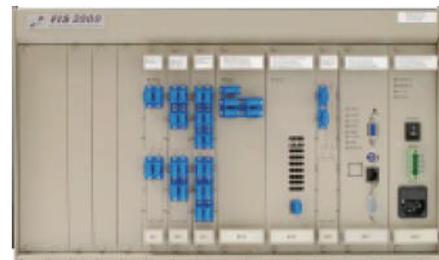
Monitoring

Off-Line Real Time Monitoring
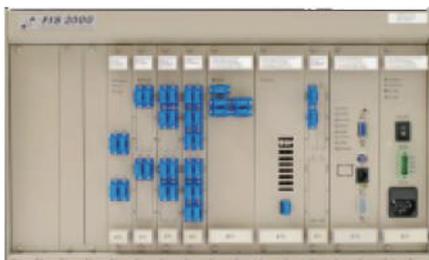
Suitable for Dark Fiber Cables

On-Line Real Time Monitoring

Suitable for Active Fiber Cables

Fast Reacting

The real-time alarm function will shorten reaction times by identifying the exact source of the trouble through running remote test units (RTUs), added with Power Monitoring, at key sites across your network. Plus, it allows you to receive alarm messages pinpointing the fault on the map within 90 seconds. Then,the system will record the error and produce a detailed and highly accurate report which will assist with any issues which may arise in the future.

All-In-One Solution

RFTS can automatically track, detect and locate degradations, and will analyze mass information as well as provide highly accurate reports including degradation type, value and location. With ever increasing bandwidth demand, you can extend modules directly so that you do not have to worry about integrating new modules into your network operation.

Comprehensive Monitoring

Once a new fiber connection is detected, the 24/7 surveillance can start without any additional manual intervention. Should a problem arise, RFTS pinpoints when and what happened by generating a fault history. Also, it enables technicians to see and handle any errors from information including the RTUS, test ports and historical databas

Off-Line Basic Test Monitoring

Suitable for Dark Fiber Cables

On-Line Basic Test Monitoring
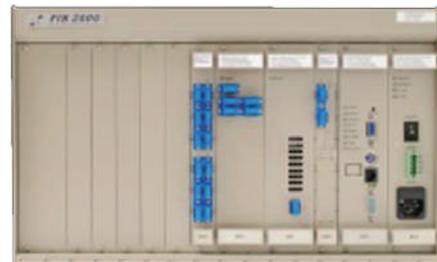
Suitable for Active Fiber Cables

Cycling Testing

You can decide when and how often you wish to execute various tests in one of our testing structures, Basic test. By running remote test units (RTUs) deployed at key locations across your network, RFTS enables you to collect information on any fault-history, fiber degradation and alarm reporting so that operators can make the right decision in advance to prevent.

Management

Practical Fiber Cable Management
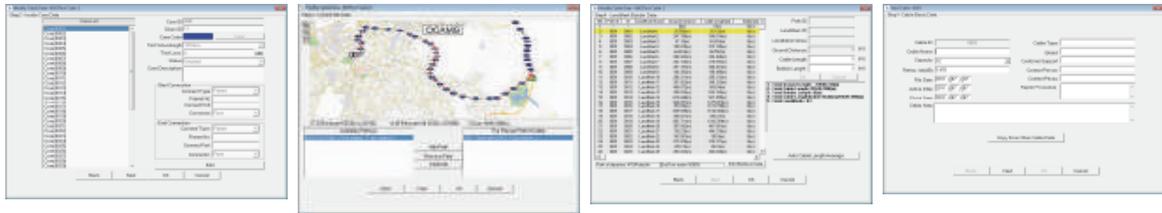
Schematic Management

RFTS can store detailed cable information, which correspond to the fiber optic network operated by customers,allowing for ease of management and daily operations. This feature can also be used to generate a comprehensiveiew of the fiber optic network and its status with graphs and E-Maps.

Not only this but RFTS will let you deploy main locations onto any background and connect them to create a regional network topology. Then, RFTS turns to your designed icon meaning that an alarm occurs on a fiber optical route. Connections to fault details are instantaneous and the RTUs as well as the optical routes alarm summary for any given region are collected in a user-friendly interface, enabling thefast correlation of data with other events on your network.

Alarm Management

RTU → TSC → FAX / Email / Phone/SMS
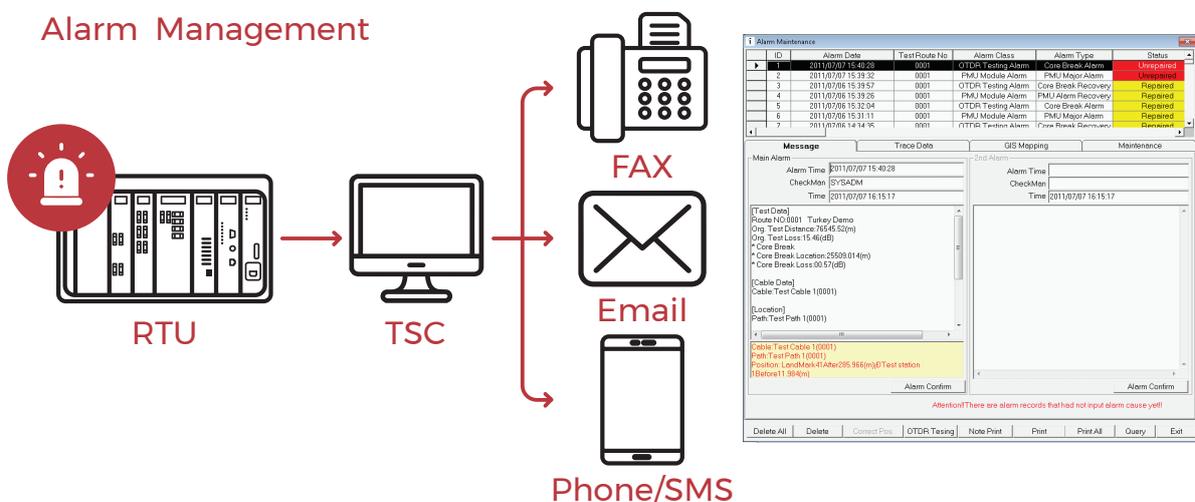
Reliable, Real-Time and Safe Solution

RFTS will automatically send visual and audio alarms to your e-mail, fax, Short Message Service (SME) and mobile phone through the Test System Controller (TSC) while the RTUs detect a fault result on the fiber routes. At the same time,RFTS will set up an alarm record and keep a log of all reports generated on your network enabling staff to deal with future issues more quickly, effectively and efficiently. RFTS provides a powerful, real-time and reliable solution that allows errors to be dealt with as quickly as possible,minimizing disruption to your network with reports such as fault-history logs, fiber status updates and maintenance information from your network system being sent direct to you, whether in the office or on the go.

Analysis and Statistic of Quality
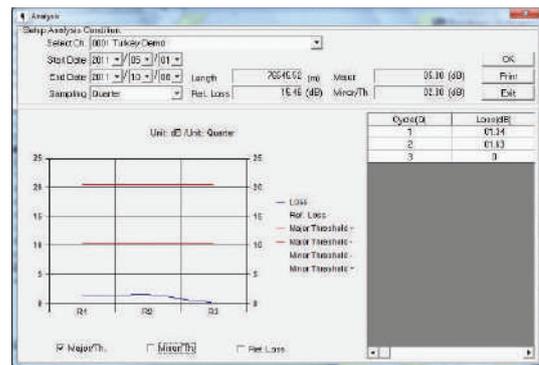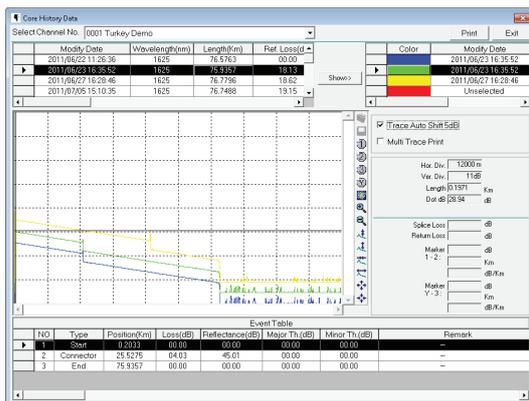
Complete Reporting on Your fibers

By scanning fiber optical routes, RFTS provides high-resolution and accurate loss measurements in different fiber environments. All RTUs can resolve closely-spaced events including connectors and mechanical splices in any access site. What is more, the Test System Controller (TSC) can query the latest Optical time-domain reflectometer (OTDR) test data and compare it with the original data for degradation analysis.

Modualize

## Scalable Modules For All Your Monitoring Needs

If you are considering purchasing a monitoring system but your current needs do not require a fullyintegrated RTU solution,then RFTS is the perfect starting point to meet your basic network needs.

However, when it is time to extend the size of your network, because of increasing bandwidth demands, modularization design can easily upgrade and maintain the RTUs with a system that allows you to accommodate 116 fibers per RTU, which is extendable to 600 fibers per RTU.
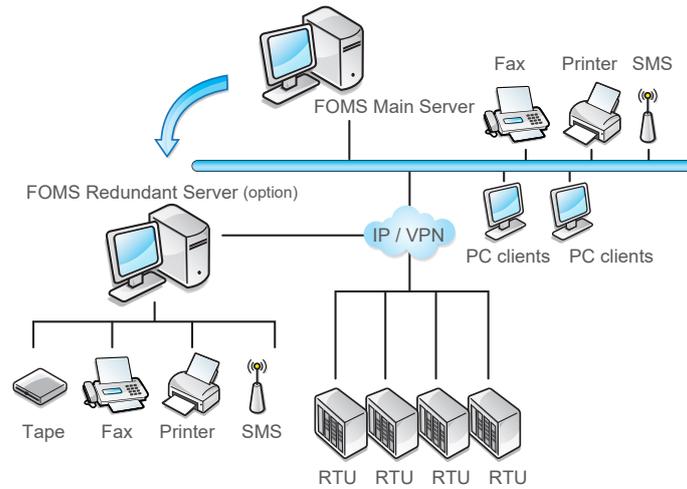
Back-up(Standard)
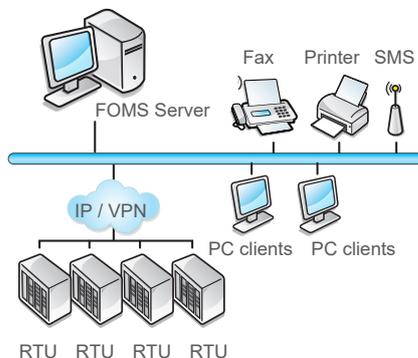
Back-up(Local Redundancy)option
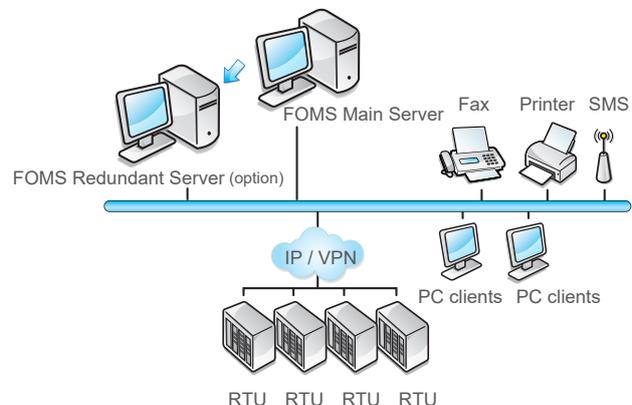
Back-up(Remote Redundancy) option

Let us Take Care About You Data

RFTS provides all functions for RTU handling, data storage, database backup, message forwarding, and user access for PC clients. Therefore, it is available to deal with power supply failures and poor communication-links between the servers and the RTUs with fail-safe and redundancy functions.

Second Server for full availability

A Redundant Server, which has a database and platform mirroring the Main Server, will be installed together with Main Server via the LAN connection, and the database in the redundant server will be configured as the backup server. In addition, a Remote Redundant Server will be configured at via a WAN connection. Therefore, it is necessary for the Remote Redundant Server to use a high speed connection. RFTS provides no data loss and allows fast restoration without requiring any significant changes to your private network configuration in case of an emergency.