Product Introduction

MS9740A Optical Spectrum Analyzer
New function introduction

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Anritsu Corporation

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Introduction

• This material explains the new functions added by version 1.4.00 of the MS9740A software.

• The software and release note can be downloaded free of charge from Anritsu web site. Downloading requires user registration.
  
  
  
  
# Summary

<table>
<thead>
<tr>
<th>Version</th>
<th>Item</th>
<th>Function</th>
<th>Slide</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.04.00</td>
<td>Addition of Opt Amp (Multi-channel) Application</td>
<td>Added the EDFA evaluating applications supporting inputting and simultaneously analyzing the multichannel (WDM) signals.</td>
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<td></td>
<td>Addition of VBW setting parameter</td>
<td>Added 2 kHz and 200 Hz to VBW</td>
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<td>1.05.00</td>
<td>Addition of SCPI remote commands</td>
<td>Added the commands that follow the rules specified in the SCPI (Standard Commands for Programmable Instruments) standard. MS9740A can now support the following two types of remote commands: MS9740A’s unique remote commands and SCPI commands.</td>
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<td></td>
<td>Addition of the WDM Filter Test application</td>
<td>Added the application that can simultaneously analyze characteristics of a wavelength division multiplexed (WDM) optical filter, separately for each wavelength. Simultaneous measurement of the following items is now available: Wavelength, level, bandwidth and spacing of signals.</td>
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<td>Addition of analysis items to the LD Module Test application</td>
<td>Added the following analysis items to the LD Module Test application, for evaluation of the DFB light source: Center Offset and Stop Band.</td>
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</table>
Opt Amp (Multi Channel) Application

- Addition of Opt. Amp (Multi-channel) for WDM signals and the latest IEC standards.
  - The IEC-recommended ISS (Interpolated Source Subtraction) method is supported for gain and ASE analysis.
  - A mode for automatically detecting the noise position is also provided.
  - The Gain Variation and the Output Slope analysis are also supported within the same application.
VBW

- Addition of 2 kHz and 200 Hz of VBW setting parameter
  - Various sensitivity settings for efficient measurement speeds
  - The measurement level range differs at evaluation of optical elements and devices due to the coupling efficiency, measurement system, and type of optical element.
  - To support efficient measurement speeds, the MS9740A has two new sensitivity settings between the most frequently used -70 and -90 dBm noise.
Remote command

• Addition of SCPI Remote Command
  – MS9740A can now support the following SCPI and native of remote commands.
  – The MS9740A Remote Tools Package supports easy creation of remote command sequences.
  – What is Remote tool Package
    • The Remote Tools Package includes the quick-start guide, sample programs, C# class library, and LabVIEW Driver.
    • This package can be downloaded from the Anritsu site.

Anritsu MS9740A Website
WDM Filter test Application

- The MS9740A adds a new WDM Filter analysis function supporting group display for WDM Filter devices, such as WSS and optical bandpass filters.
- Batch Measurement of Optical Bandpass Filter Transmittance
- Insertion Loss Evaluation
  - The MS9740A Trace Mode function supports measurement using optical switches to measure DUT insertion loss by Waveform Difference Comparison, saving the results in one file and displaying up to 10 waveforms simultaneously on one screen.
LD Module test Application

- Addition of analysis item in LD Module test Application
  - Addition of Center Offset and Stop Band.
  - The MS9740A supports the efficient measurement because the two analysis items are also supported within the same application.