To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc. Click here>> www.raeservices.com/services/quote.htm



Chronic Dispers

Electric Co.,LTD





General Description

Dispersion Canagement becomes the key factor in the Tigh Capacity dense Wavelength-Division Waltis exed system. AQ7511 Optical Fiber Dispersion Dispution Measuring System provides convenient dispersion distribution. The AQ7511 has two DFB lasers and detects the backscatter light which includes Stokes ray of the four wave mixing from the fiber, using OTDR technique.

Applications

- Quality appreciation of Dispersion compensating fiber (DCF, RDF).
- **◆** Appreciation of non-linear fiber (DDF).

DDF; Dispersion Decreasing Fiber

NIST, ISO, IEC, ANSI, NCSL, MIL-STD by www.raeservices.com RDF; Reverse Dispersion Fiber



Block Diagram

DFB-LD

DFB-LD

PC

FWM Generation



Dispersion Parameter is in proportion to **Periodic variation of Back** scattered light



Frequency **Measurement**



Measurement procedure

Setting Measurement Condition

ght Source Condition

Wavelength spacing

Power

Work Information

OTDR Condition

Index

Span

Averaging Count

Measurement Starting

[OTDR-signal]

ispersio

Analysis Result]

Signal analysis

Span

Span



Specifications

→ Wavelength

→ Wavelength Spacing

♦ Measurement Range

Dead zoon

Measurement repeatability

◆ Dispersion measurement range

♦ Measurement time

♦ Operating temp

♦ Power requirement

Functions

♦ Measurement Function

♦ Data output

♦ Storage

♦ File format

C-band

0.4nm (3) 2.3pm (0.1nm step)

2km / 5km / 0km / 20km / 40km / 80km

 (\mathfrak{A}) m

0.2 mm/km

 $100 \pm 300 \,\mathrm{ps/nm/km}$

Epprox. 3 minutes(The handling time is excluded.)

25 ±5 °C

Approx. 100 to 240 VAC

Dispersion distribution, Total dispersion

External printer

Text File

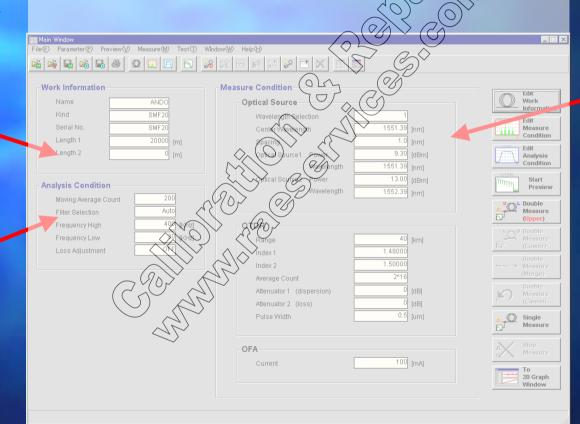
Measurement data, OTDR Data



Display

Work Information

Analytical Condition



Measurement Condition



Analytical functions

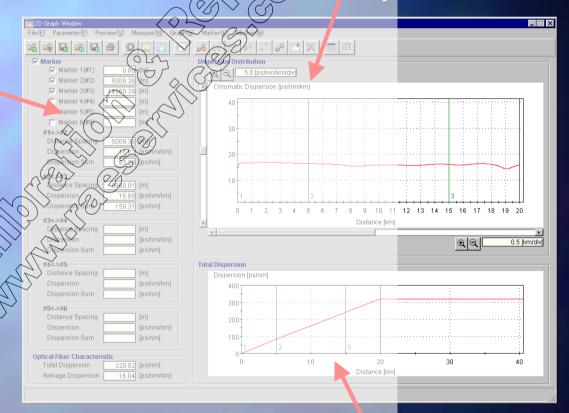
Dispersion Distribution

Analytical Block

- **◆Line Marker (6 places)**
- **♦** Analysis Contents

(Between Line Marker)

- Dispersion Value
- Total Dispersion Value
- Distance



Total Dispersion



Measurement Example 20km G.652 (2016)

