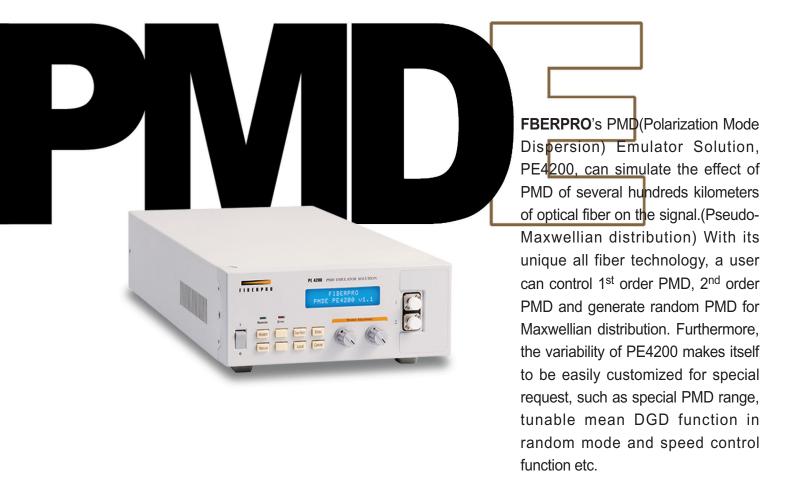


PE4200



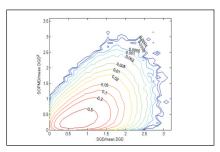




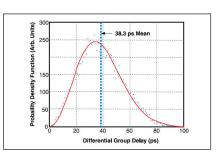
Programmable RMD Emulator Solution

Features

- All fiber configuration : Low Loss (IL : ~ 1.0 dB typ. PDL : ~ 0.1 dB typ.)
- Customized DGD configuration and PMD range: for 10G, 40G applications, etc.
- High repeatability / High stability
- All order PMD emulation : Independent generation of 1st order PMD (DGD) & 2nd order PMD (SOPMD), Higher order PMD
- Maxwellian distribution of PMD

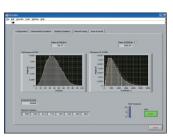


Joint probability density function : DGD-SOPMD



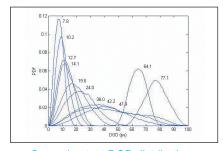
Maxwellian distribution of probability density function of PMD.

- Variable mean DGD: Tunable statistics
- Dynamic emulation speed control
- Powerful GUI: Deterministic Statistic Emulation,
 Virtual (trial) DGD mode, Manual Tuning





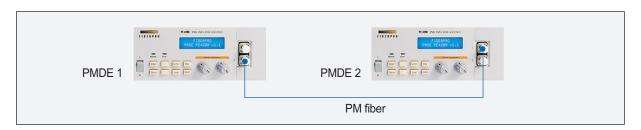
Windows of GUI. PE4200



Several output DGD distributions simulated with various average DGD.



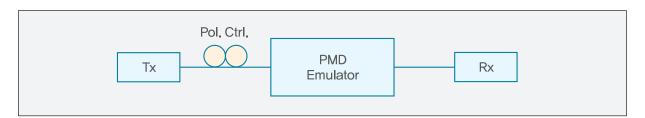
- Easy expansion (Cascading mode. PM fiber option)



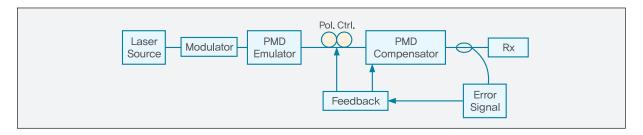
- Various customized options

Applications

(1) Evaluating performance of optical networks and cables in the presence of PMD



(2) PMD Emulations for testing PMD Compensator / PMD Compensation experiment



(3) FEC (Forward Error Correction) Performance Test against PMD stress

Specification

Function	Controllable 1st order PMD generation (DGD)
	Controllable 2 nd order PMD generation
	Random PMD generation (Maxwellian distribution)
Standard DGD Range	0 ~ +100 ps ¹⁾
Average PMD	38 ps (tunable) ²⁾
2nd order PMD Range	0 ~ +2,500 ps ^{2 3)}
Response time	< 300 ms ⁴⁾
Operating Wavelength Range	1520 - 1620 nm
IL variation	≤ 0.1 dB
PDL	< 0.2 dB
Return Loss	< 60 dB
Interface	Operating software by GPIB / RS232
Optical Power Handling	> 23 dBm
Connector type	FC/PC or FC/APC
Operating Temperature	10 °C ~ 50 °C
Storage Temperature	0 ℃ ~ 60 ℃
Power Supply	100 ~ 125 V, 210 ~ 250 V, 50Hz/60Hz
Dimensions (W x H x D)	210 x 82 x 470 mm ³

- 1) Other ranges are available (ex. 0~30 ps, 0~120 ps, 0~200 ps)
- 2) In case DGD is 0~100 ps. Tunable mean DGD function available. (Various mean DGDs can be generated.)
- 3) In case DGD is 0~100 ps. 2nd order PMD range depends on DGD range.
- 4) Speed control function available

Ordering Code

PE4200 - (1) - (2) - (3)

- 1. PMD Range → ex) 100 : 0~100 ps (10G system application)
 - 25:0~25 ps (40G system application)
- 2. Other Options \rightarrow X : None
 - P : PMF output (please specify the length)
 - S: Splitting power monitor
- 3. Connector Type: F/P (FC/PC), F/A (FC/APC)