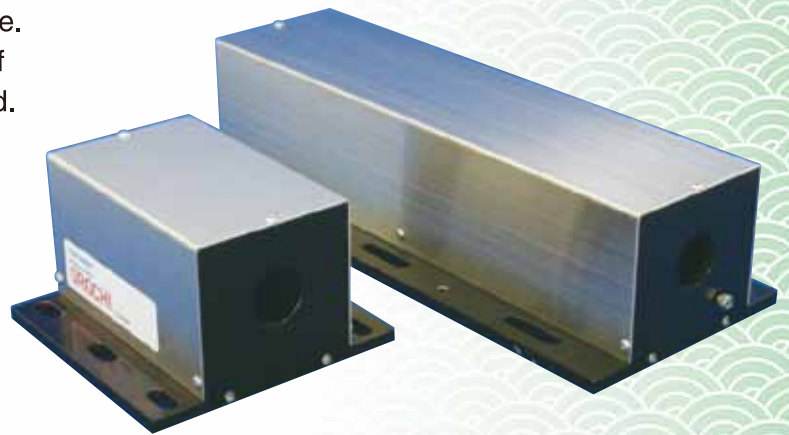# Intelligent Scanner

FEMTOWAVE ®

OROCHI FW04

The latest Optical Technology Creates the Future
Kyowa Fine Tech Co., Ltd

No oscilloscope is necessary!
For every scene which needs optical delay.

For measuring or controlling through use of femtosecond pulse, optical delay is needed to adjust a time difference of the pulse. 100fs pulse is converted to around 30μm in spatial distance. For operation to delay the pulse, realization of positional accuracy in micron order is required. OROCHI is a high-precision optical delay equipment which achieved a good balance between micron order positional accuracy and 10Hz high speed scanning.
This equipment can be used at ease in researches where femtosecond laser is used such as terahertz TDS spectroscopy, pump-probe spectroscopy measurement etc.
The scanner drive system is controlled by well-reputed easy to use software (LabVIEW) which includes FEMTOWAVE's know-how.

Drive system is controlled by a powerful software.
※PC is required separately.

Features

- Wide Range of Scanning (FW04-001: 60ps, FW-04-002: 160ps)

- Original Design which Enables to Minimize Vibration Genetration (FW04-002 only)

- Simultaneous Capturing and Recording of Analog Data at Each Reflector Position

- Flexible Setting of Driving Waveform

- Easy to use Software Attached as a Standard Accessory

- Fourier Transform Software, Spectrum Operation Software (Option)

KYOWA FINE TECH CO., LTD.

Intelligent Scanner
OROCHI FW04

Model No.	FW04-005	FW04-002
Scanning Range (Maximum)	60ps	160ps
Scanning Frequency	10Hz or less [1] (Set up with dedicated software [2], arbitrary waveform is possible.)	
Delay Resolution	10fs	10fs
Interface	USB (Connection with PC) [2]	
Opening Size	1"	
Coating	Selection from Silver or Gold	
Corner Reflector Transfer Mechanism	Linear Rail System	
Main Body Dimension (W×D×H)	125×125×80mm	125×220×80mm
Dedicated Software [2] — Scanning Waveform	Sine Waveform etc., arbitrary waveform is possible.	
Dedicated Software [2] — Data Recording	Delayed Signal (ps), External Analog Input (V) (16bit)	
Dedicated Software [2] — Data Output	CSV Format Output (Temporal Waveform, Correlative Waveform)	

[1] According to scanning waveform, there are cases when the numeric value can not be achieved.
[2] The software's execution check environment/
     OS: Win7 CPU: Celeron1GHz or equivalent Memory: 512MB Display: XGA with 2 USB ports

Related Monographs   (1) Tadashi Okuno, Hidetoshi Nose, Takanori Kojima, Hiroshi Tsugita, Akira Watanabe, JSAP, 2009

■Agency   ■Design/Development

20130322