



**FEMTOCHROME®  
RESEARCH, INC.**

## **FR-103MC FEMTOSECOND DETECTOR**



### **Specifications:**

- Sensitivity ( $P_{av}P_{pk}$ )<sub>min</sub> :  $10^{-6} W^2$
- Resolution: <3fs
- Scan Range: > 40 ps
- Wavelength Range: 500–3000nm
- Interferometric/Non-collinear
- Polarization Insensitive (TPC)
- Free-Space/Fiber-Coupled
- Computer Data Acquisition Option
- Slow Scan Option (any rep rate > 5Hz)
- Dimensions : 4.0" x 3.375" x 2.5"

The **FR-103MC** is a palm-size Autocorrelator. It can be configured either interferometric w/TPC (Two Photon Conductivity photosensor), or background-free w/NL (Non Linear crystal SHG).

As an ultrafast detector, it is easy-to-use while providing unparalleled resolution.

Ideal for OEM applications, the **FR-103MC** is suitable for a pulsewidth range of 10fs – 10ps.

It can be provided either for a free-space or fiber-coupled (FC/PC or FC/APC) input.

Optionally, it can be supplied together with the Computer Data Acquisition (/CDA) for the display and analysis of autocorrelation traces with a PC.

The standard version is suitable for pulse rep rates >10kHz. Slow Scan Option (/SSO) extends input pulse rep rates to any >5Hz.

A new version, **FR-103TPM**, provides a high-resolution pulsewidth monitor for **Two-Photon Microscopy** applications.