

TIEMPO Add-On to OLYMPUS FLUOVIEW™

The FLUOVIEW TIEMPO option allows more sophisticated acquisition and analysis of temporal image sequences. TIEMPO acquisition supports input and output triggers to synchronize with external equipment, and TIEMPO analysis is available both during acquisition and analysis phases.

Trigger signals synchronize with external equipment

- Trigger outputs – these mark the start of each scanned frame, and the start and end of each scan line. TIEMPO event markers broadcast two digital output signals for user-defined functions.
- Trigger inputs – TIEMPO can start scans from external digital inputs or from the keyboard. XYT scans can be triggered frame-by-frame, or an entire sequence can be started from a single trigger.

Quantitative analysis of fluorescence data

- TIEMPO extends the inherent FLUOVIEW analysis tools. For example, the FLUOVIEW measurement of average intensity over ROIs is enhanced by TIEMPO to display $[Ca^{2+}]$ in units of nM.
- TIEMPO has an extensive probe database allowing specific calculations for any fluorescence experiment

Real-time analysis and display

- Live Processing – with TIEMPO, FLUOVIEW can display real-time analysis images concurrently with acquired images. For example, acquired images and analysis results can each have separate color lookup tables.
- LivePlots graph intensities from ROIs during acquisition. LivePlots display raw intensities or the output of TIEMPO ViewProcessors.
- Event Markers – add user-defined annotations during acquisition

Completely integrated design

- TIEMPO ViewProcessors have a straightforward design that simplifies complex operations.
- TIEMPO appears as new features within FLUOVIEW (no additional software to learn)
 - Works with all FLUOVIEW scan modes (surface, line, fast, clip scan, etc)
 - Works with all FLUOVIEW tools (analysis, visualization, file I/O)
 - Uses the intuitive FLUOVIEW look and feel
 - Available on all FLUOVIEW hardware platforms: Review Station, FV-NTX, FV-300, FV-500
- TIEMPO includes a database of ionic probes, tools for supplementing the database, and tools for measuring the apparent K_d of probes

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