Panopticon uses pre-attentive techniques, to visualize data in high density displays appropriate to the questions being asked, whether peer comparison, trending, clustering, correlations, relationships or outlier detection. With visualizations that rapidly highlight diverges from expected performance, rather than minutes spent reviewing tabular reports, or viewing high level BI reports and missing crucial details, the abnormality is instantly highlighted.

**REAL TIME STREAMING & REAL TIME UPDATES**

Events can occur during the blink of the eye, and can only effectively be monitored electronically via pre-defined rules or models. However, when events diverge from expectations, human analysis returns to center stage. The ability to receive, analyze, understand, and act with minimal latency has a direct and immediate financial impact. Panopticon’s ability to generate and then visualize the latest operational state, whether subscribing to a feed, or automatic data requests from a repository delivers on this objective. Metrics are displayed comparing actual against predicted performance, highlighting specific anomalies for further investigation.

**INTRA-DAY & HISTORIC TIME SERIES**

The investigation of anomalies is enhanced in Panopticon, with the ability to view and interact with historic events. Being able to view the divergence evolve across time and then resample down to every transaction, allows the impact and evolution of events to be quickly investigated.

Rather than focusing on the anomaly specifically, playing back through the history of all flow, whether long term across days or for a specific day down to the millisecond, improves your understanding of the macro view on what actually occurred, highlighting opportunities and risks in the larger dataset.
For over fifteen years, Datawatch Panopticon has been trusted by the largest banks, broker dealers, fund managers and exchanges, in New York, London, Chicago, Paris, Frankfurt, Sydney and other global financial centers. We have also been embedded in compliance, risk and trading systems trusted by an even larger group of both buy & sell side customers. Panopticon started out as the technology offshoot of an emerging markets retail brokerage, to design and deliver visibility into the ever increasing pressures of data volume, and data timeliness of e-trading data. The purpose has remained the same today, to minimize the latency of informed decision making, to provide our customers a time advantage, where traders can both understand, extract insight, and act. Panopticon provides visual anomaly detection across real time streaming, intra-day and historic timeseries; to identify the problem or opportunity that is typically missed with traditional trader displays.