EDM Overview

EDM, or Engineering Data Management, is the desktop software that works with all Crystal Instruments front-end hardware.

Getting Started

Refer to the links below to get started on setup:

Important Safety Information

Connecting Your PC to the Spider Front-End

Running EDM

Where is My Data?

How the User's Software Reads CI Data Files (ATFX API)

Appendix: Software Options

EDM may include the following software applications based on license key options.

- **VCS:** single axis and MIMO vibration controller software
- **THV:** temperature, humidity, and vibration control software
- **MSC:** multi-shaker control software
- **WE:** waveform editor, processes data for VCS

- **DSA:** dynamic signal analyzer software
- **RCM:** remote monitoring software
- **TDA:** time data acquisition software

- **Modal:** Complete modal testing and analysis software

- **CoCo-DSA:** desktop software for CoCo hardware

Other software products installed separately:

- **PA:** post analysis software. Post processing data acquired by CoCo or Spider hardware
- **EDC:** embedded device controller, lightweight temperature and humidity control software designed for touchscreen operation
- **VDS:** vibration diagnostic system
- **Machine Builder:** builds machine models to be used in VCS
- **FECT:** front-end calibration tool, calibration software for Spider hardware

Appendix: Hardware Options

The vibration control system software runs on several different hardware platforms from Crystal Instruments:

- **Spider-81:** an 8-channel device that can be expanded to a system with hundreds of channels
- **Spider-81B:** a 4-channel economic version of Spider-81
- **Spider-80X:** a compact packaging of Spider-81 that can be expanded to a system with hundreds of channels
- **Spider-80Xi:** a compact version of Spider-80X without the enclosure as a modular card inside of chassis
- **Spider-80SG:** an 8-channel device with bridge channels for Strain Gauge or general data acquisition applications
- **Spider-80SGi:** a compact version of Spider-80SG without the enclosure as a modular card inside of chassis

Getting Started

Here is the list of ports used by EDM and Spider

- TCP Port: 9001
- UDP Detect Port: 9002
- UDP Find Port: 9003
- NAS Download FTP Port: 9021 (for downloading data from Spider-NAS)
- Device Status Monitor Port: 4430 (optional)
- SQL Server TCP Port: 1433 (communication port for Microsoft SQL server)
- SQL Server UDP Port: 1434 (communication port for Microsoft SQL server)
- EDM Cloud (Web Sockets) Port: 80 (communication port for EDM Cloud service)
- SMTP Port: 25 (port for EDM to send emails)
- SMTP with SSL Port: 587 (port for EDM to send emails with SSL)

From:
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Last update: **2023/08/31 01:53**