EDM Overview

EDM (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

System Requirements

The minimum system requirements to run the EDM software can be found in the Software Release Notes. Simply select the version of EDM that is being used, and the requirements will be listed.

System Ports

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)

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