

MolecularDevices EMax



Manufacturer: Molecular Devices Corporation
 Model Number: Molecular-Devices-EMax
 Web Address: www.moleculardevices.com

The EMax Endpoint ELISA Microplate Reader from Molecular Devices, one of the pioneers in microplate detection, offers a ruggedly simple approach to dedicated endpoint assays. A staggering mean time between failure (MTBF) of 20,000 hours is achieved by 97 independent and stationary fiber optics so that the microplate remains stationary during the entire reading cycle, reducing the number of moving parts. No optical alignment needed during the lifetime of the instrument! Through sequential, single-well illumination, 100% of the available light is directed to each well through the optical fibers to achieve linearity to higher optical densities (ODs) and optimal signal-to-noise ratios. At 5 seconds to read a 96-well endpoint assay, the EMax Microplate Reader has both the speed and performance to carry a heavy workload.

Plate Reader: Commands

- **CloseDocument()** - Closes the current document. If the data has not been saved, the document is closed anyway without user warning.
- **CloseDrawer()** - Closes the instrument drawer.
- **ExportAs(filePath)** - Exports data in the standard SoftMax Pro format to the specified file.

filePath	String	File path for the exported file.
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- **NewPlate()** - Creates a new plate section within the current experiment.

- **OpenAssay(filePath)** - Opens a protocol file.

filePath	String	File path for the protocol file. The file should be in SoftMax Pro Protocols folder if the full file path is not specified. Protocols can also be stored in subdirectories of the Assay folder. SoftMax Pro appends ".ppr" to any file name passed in.
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- **OpenDocument(filePath)** - Opens a a new document (i.e. data file). The file should be in SoftMax Pro application folder unless the full file path is specified.

filePath	String	File path for the document.
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- **ReturnStatus()** - Returns the current instrument status. This command can be sent to check whether the instrument is busy or reading or staying idle.

- **SetPort(portNumber)** - Tells the SoftMax Pro to use the specified serial port.

portNumber	Integer	Serial port number.
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• **SetTemp(temperature)** - Sets the current instrument incubator temperature.

temperature	Float	Instrument incubator temperature.
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- **ShakeOn()** - Starts shaking the microplate tray.
- **ShakeOff()** - Stops shaking the microplate tray.
- **TrayLockOn()** - Keeps the microplate tray locked inside the instrument after the read.
- **TrayLockOff()** - Releases the microplate tray lock inside the instrument after the read. The tray also comes out.

Reader Error

• **ReaderError(alarmCode, description)** - Error occurred during command execution.

alarmCode	Integer	Error code.
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description	String	Error description.
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