

## MolecularDevices VMax



Manufacturer: Molecular Devices Corporation  
 Model Number: Molecular-Devices-VMax  
 Web Address: [www.moleculardevices.com](http://www.moleculardevices.com)

The VMax Kinetic ELISA Microplate Reader, the first of its kind for monitoring reactions over time, opened the door to enzyme assays and continues to be the workhorse of the laboratory environment. Based on a rugged simple design, the VMax Absorbance Microplate Reader offers a mean time between failure (MTBF) of 20,000 hours with 97 independent and stationary fiber optics so that the microplate remains stationary during the entire reading cycle, reducing the number of moving parts that can wear and need replacement. 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 or a 5 second minimum interval between kinetic reads, the VMax Microplate Reader has both speed and performance.

### 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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