

## HARDWARE CONTROL

OI\_Close  
 OI\_CloseComponent  
 OI\_Configure  
 OI\_CountCards  
 OI\_EnableMotorPower  
 OI\_EmergencyStopAll  
 OI\_GetAFFitted  
 OI\_GetAutoFocusHWMMode  
 OI\_GetConfiguration  
 OI\_GetDefaultAbortKeys  
 OI\_GetDefaultWaitCursorEnabled  
 OI\_GetDriverOpen  
 OI\_GetHardwareMode  
 OI\_GetMultiAxisMode  
 OI\_GetSelectedCard  
 OI\_GetTotalAxisCount  
 OI\_GetUseCount  
 OI\_Open  
 OI\_GetFlashCheckSum  
 OI\_GetComponentStatus  
 OI\_OpenComponent  
 OI\_ReadCardStatus  
 OI\_ReadPCBStatus  
 OI\_ReadPCBTemperature  
 OI\_ResetHardware  
 OI\_SelectCard  
 OI\_SetAutoFocusHWMMode  
 OI\_SetDefaultAbortKeys  
 OI\_SetDefaultWaitCursorEnabled  
 OI\_SetHardwareMode  
 OI\_SetMultiAxisMode

## VERSION INFORMATION

OI\_GetDriverVersion  
 OI\_ReadPCBID  
 OI\_ReadPCBVersion  
 OI\_ReadSerialNum

## GENERAL, SINGLE AXIS CONTROL

OI\_DriveAxisContinuous  
 OI\_FlashReadAxisPitch  
 OI\_GetAxisBacklash  
 OI\_GetAxisCruise  
 OI\_GetAxisInitMethod  
 OI\_GetAxisMaxMove  
 OI\_GetAxisRamp  
 OI\_GetAxisRange  
 OI\_GetAxisSense  
 OI\_GetAxisStepSize  
 OI\_GetAxisStepsPerRev  
 OI\_GetAxisTravel  
 OI\_HaltAxis  
 OI\_MoveAxis  
 OI\_ReadAxis  
 OI\_ReadAxisAtLimit  
 OI\_ReadAxisMoving  
 OI\_ReadAxisRampValue  
 OI\_ReadAxisStatus  
 OI\_SetAxisBacklash  
 OI\_SetAxisCruise  
 OI\_SetAxisEncoderEnabled  
 OI\_SetAxisInitMethod  
 OI\_SetAxisRamp  
 OI\_SetAxisSense

OI\_SetAxisStepSize  
 OI\_SetAxisToDefaults  
 OI\_SetAxisTravel  
 OI\_StepAxis  
 OI\_WaitForAxisStopped

## SIMULTANEOUS THREE AXIS CONTROL

OI\_DriveContinuousXYZ  
 OI\_HaltAllAxes  
 OI\_MoveToXYZ  
 OI\_MoveToXYZ\_Auto  
 OI\_ReadMaxMoveXYZ  
 OI\_ReadXYZ  
 OI\_SetPitchFromFlashXYZ  
 OI\_SetPositionXYZ  
 OI\_WaitForStoppedXYZ

## XY STAGE CONTROL

OI\_ClearUserLimitsXY  
 OI\_DriveContinuousXY  
 OI\_GetCruiseXY  
 OI\_GetDriveSenseXY  
 OI\_GetFullTravelXY  
 OI\_GetPitchXY  
 OI\_GetRampXY  
 OI\_GetSpeedXY  
 OI\_GetUserLimitGuardDistanceXY  
 OI\_GetUserLimitsXY  
 OI\_HaltXY  
 OI\_InitializeXY  
 OI\_LookupSpeedXY  
 OI\_MoveToXY  
 OI\_MoveToXY\_Auto  
 OI\_ReadLimitAlarmsXY  
 OI\_ReadStatusXY  
 OI\_ReadXY  
 OI\_SelectSpeedXY  
 OI\_SetCruiseXY  
 OI\_SetDriveSenseXY  
 OI\_SetOriginXY  
 OI\_SetPitchXY  
 OI\_SetPositionXY  
 OI\_SetRampXY  
 OI\_SetUserLimitGuardDistanceXY  
 OI\_SetUserLimitsXY  
 OI\_StepX  
 OI\_StepXY  
 OI\_StepY  
 OI\_WaitForStoppedXY

## Z / FOCUS CONTROL

OI\_ClearUserLimitsZ  
 OI\_CloseMouseWheelForFocus  
 OI\_DriveContinuousZ  
 OI\_GetCruiseZ  
 OI\_GetDriveSenseZ  
 OI\_GetMouseWheelPars  
 OI\_GetMouseWheelZ  
 OI\_GetRampZ  
 OI\_GetSpeedZ  
 OI\_GetUserLimitsZ  
 OI\_HaltZ  
 OI\_InitializeZ  
 OI\_InitializeZLimits  
 OI\_LookupSpeedZ

OI\_MoveToZ  
 OI\_OpenMouseWheelForFocus  
 OI\_ReadLimitAlarmsZ  
 OI\_ReadRangeZ  
 OI\_ReadStatusZ  
 OI\_ReadZ  
 OI\_RockZ  
 OI\_SelectSpeedZ  
 OI\_SetCruiseZ  
 OI\_SetDriveSenseZ  
 OI\_SetMouseWheelPars  
 OI\_SetMouseWheelZ  
 OI\_SetOriginZ  
 OI\_SetPitchZ  
 OI\_SetPositionZ  
 OI\_SetRampZ  
 OI\_SetUserLimitsZ  
 OI\_StepZ  
 OI\_WaitForStoppedZ

## F-AXIS (4TH AXIS) CONTROL

OI\_ClearUserLimitsF  
 OI\_GetCruiseF  
 OI\_GetDriveSenseF  
 OI\_GetRampF  
 OI\_GetSpeedF  
 OI\_GetUserLimitsF  
 OI\_HaltF  
 OI\_InitializeF  
 OI\_InitializeFRange  
 OI\_LookupSpeedF  
 OI\_MoveToF  
 OI\_ReadF  
 OI\_ReadLimitAlarmsF  
 OI\_ReadRangeF  
 OI\_ReadStatusF  
 OI\_SelectSpeedF  
 OI\_SetCruiseF  
 OI\_SetDriveSenseF  
 OI\_SetOriginF  
 OI\_SetPitchF  
 OI\_SetPositionF  
 OI\_SetRampF  
 OI\_SetUserLimitsF  
 OI\_StepF  
 OI\_WaitForStoppedF

## T-AXIS (5TH AXIS) CONTROL

OI\_ClearUserLimitsT  
 OI\_GetCruiseT  
 OI\_GetDriveSenseT  
 OI\_GetRampT  
 OI\_GetSpeedT  
 OI\_GetUserLimitsT  
 OI\_HaltT  
 OI\_InitializeT  
 OI\_InitializeTRange  
 OI\_LookupSpeedT  
 OI\_MoveToT  
 OI\_ReadT  
 OI\_ReadLimitAlarmsT  
 OI\_ReadRangeT  
 OI\_ReadStatusT  
 OI\_SelectSpeedT  
 OI\_SetCruiseT  
 OI\_SetDriveSenseT  
 OI\_SetOriginT

OI\_SetPitchT  
OI\_SetPositionT  
OI\_SetRampT  
OI\_SetUserLimitsT  
OI\_StepT  
OI\_WaitForStoppedT

## ENCODERS AND CLOSED-LOOP OPERATION

OI\_GetAxisEncoderEnabled  
OI\_GetAxisEncoderFitted  
OI\_GetAxisEncoderStepSize  
OI\_GetEncoderEnabledXY  
OI\_GetEncoderEnabledZ  
OI\_SetEncoderEnabledXY  
OI\_SetEncoderEnabledZ

## AUTOMATIC FOCUS

OI\_AutoFocus  
OI\_AutoFocus\_Fine  
OI\_AutoFocus\_Step  
OI\_AutoFocusEx  
OI\_GetAutoFocus  
OI\_GetAutoFocusEx  
OI\_GetAutoFocusThreshold  
OI\_GetFineFocusSamples  
OI\_ReadFocusProfile  
OI\_ReadFocusScore  
OI\_ReadFocusScoreEx  
OI\_RequestAutoFocusStatus  
OI\_SetAutoFocus  
OI\_SetAutoFocusEx  
OI\_SetAutoFocusThreshold  
OI\_SetFineFocusSamples  
OI\_WaitForAutoFocus

## PREDICTIVE FOCUS FUNCTIONS

OI\_SetPredictiveZ  
OI\_GetPredictiveZ  
OI\_GetPredictiveFlag  
OI\_SetPredictiveFlag  
OI\_SetAutoPredictiveZ  
OI\_GetAutoPredictiveZ  
OI\_InvalidatePredictiveZ

## VIDEO CAMERA INTERFACE FUNCTIONS

OI\_GetVideoWindow  
OI\_IsVideoDetected  
OI\_ReadVideoData  
OI\_ReadVideoResults  
OI\_ReadVideoResultsEx  
OI\_ReadVideoResultsXY  
OI\_ReadVideoResultsXYZF  
OI\_ReadVideoResultsZ  
OI\_SetVideoSettings  
OI\_SetVideoWindow

## FILTER CHANGER FUNCTIONS

OI\_ClearFilterHomeInfo  
OI\_DeleteFilter  
OI\_GetFilterChanger  
OI\_GetFilterChangerCount  
OI\_GetFilterCount

OI\_GetFilterDescription  
OI\_GetFilterHomeOffset  
OI\_GetFilterName  
OI\_GetFilterOffset  
OI\_GetFilterPosition  
OI\_GetFilterTimeout  
OI\_GetShutter  
OI\_GetShutterMulti  
OI\_InitFilterChanger  
OI\_MoveToFilter  
OI\_ReadFilterChangerInfo  
OI\_ReadFilterHomeInfo  
OI\_SelectFilterChanger  
OI\_SetFilterCount  
OI\_SetFilterDescription  
OI\_SetFilterHomeOffset  
OI\_SetFilterLocation  
OI\_SetFilterName  
OI\_SetFilterOffset  
OI\_SetFilterTimeout  
OI\_SetShutter  
OI\_SetShutterMulti  
OI\_WaitForStoppedFilter

## HARDWARE JOYSTICK AND TRACKBALL FUNCTIONS

OI\_ClearTrackballStatus  
OI\_GetJoystickEnabled  
OI\_GetTrackballControl  
OI\_GetTrackballEnabled  
OI\_ReadTrackballStatus  
OI\_SetJoystickEnabled  
OI\_SetTrackballControl  
OI\_SetTrackballEnabled

## TIMEOUTS

OI\_GetAutoFocusTimeout  
OI\_GetMoveTimeout  
OI\_GetVideoTimeout  
OI\_SetAutoFocusTimeout  
OI\_SetMoveTimeout  
OI\_SetVideoTimeout

## FILE I/O AND SETTINGS

OI\_LoadPositions  
OI\_LoadSettings  
OI\_LoadSettingsEx  
OI\_SavePositions  
OI\_SaveSettings  
OI\_SaveSettingsEx

## ERROR HANDLING

OI\_GetLastError  
OI\_EnableMsgReportDlg

## MICRONS / STEP CONVERSION

OI\_MicronsToAbsoluteX  
OI\_MicronsToAbsoluteY  
OI\_MicronsToAbsoluteZ  
OI\_MicronsToAbsoluteF  
OI\_MicronsToStepsX  
OI\_MicronsToStepsY  
OI\_MicronsToStepsZ  
OI\_MicronsToStepsF  
OI\_StepsToMicronsX

OI\_StepsToMicronsY  
OI\_StepsToMicronsZ  
OI\_StepsToMicronsF

## GENERAL PURPOSE I/O

OI\_ReadInputPorts  
OI\_ReadIO  
OI\_WriteIO