

ASITiger Device Adapter

ASITiger is a [Micro-Manager](#) device adapter for the TG-1000 controller.

The following tables map the device property names that you see in the device property browser in Micro-Manager to the underlying serial command being used by the device adapter.

Clocked Devices

Turret, PortSwitch, FilterSlider

Turret, PortSwitch, FilterSlider		
Property	Set	Get
JoystickInput		
NumPositions		
State		

CRISPAFocus

CRISPAFocus		
Property	Set	Get
CRISP State	See Table	See Table
CRISP State Character	-	LK X?
Calibration Gain	LR X=#	LR X?
Dither Error	-	LK Y?
GainMultiplier	LR T=#	LR T?
In Focus Range(um)	AL Z=#	AL Z?
LED Intensity	UL X=#	UL X?
Lock Offset	LK Z=#	LK Z?
LogAmpAGC	AL X=#	AL X?
Max Lock Range(mm)	LR Z=#	LR Z?
Number of Averages	RT F=#	RT F?
Number of Skips	UL Y=#	UL Y?
Objective NA	LR Y=#	LR Y?
Signal Noise Ratio	-	EXTRA Y?
Sum	-	LK T?
Wait ms after Lock	-	-

CRISP State	
Property Value	Set
Idle	LK F=79
Ready	LK F=85
Lock	LK F=83
log_Cal	LK F=72
gain_Cal	LK F=67

CRISP State	
Property Value	Set
Dither	LK F=102
Curve	LK F=97
Balance	LK F=66
Reset Focus Offset	LK F=111
CRISP Advanced Settings	
Set LogAmpAGC (Advanced Users Only)	LK M=# -
Set Lock Offset (Advanced Users Only)	LK Z=# -

DAC

DAC		
Property	Set	Get
DAC Gate	Open: MC <axis>=# Closed: MC <axis>=-#	MC <axis>?
DACVoltage(mV)	M <axis>=#	W <axis>
FilterFreq(kHz)	B <axis>=#	B <axis>?
MaxVoltage(V)	-	SU <axis>?
MinVoltage(V)	-	SL <axis>?
OutputMode (Restart Needed)	PR <axis>=#	PR <axis>?
SINGLEAXIS_FUNCTION		
RING BUFFER		
RING BUFFER + INO_INT		
TTLinMode	TTL X=#	TTL X?
TTLoutMode	TTL Y=#	TTL Y?

DACXYStage

DACXYStage		
Property	Set	Get
DAC Gate X	Open: MC <axisX>=# Closed: MC <axisX>=-#	MC <axisX>?
DAC Gate Y	Open: MC <axisY>=# Closed: MC <axisY>=-#	MC <axisY>?
FilterFreqX(kHz)	B <axisX>=#	B <axisX>?
FilterFreqY(kHz)	B <axisY>=#	B <axisY>?
JoystickEnabled		
JoystickFastSpeed		
JoystickInput		
JoystickReverse		
JoystickRotate		
JoystickSlowSpeed		
MaxVoltageX(V)		
MaxVoltageY(V)		
MinVoltageX(V)		
MinVoltageY(V)		

DACXYStage		
Property	Set	Get
OutputModeX (Restart Needed)	PR <axisX>=#	PR <axisX>?
OutputModeY (Restart Needed)	PR <axisY>=#	PR <axisY>?
SINGLEAXIS_FUNCTION		
RING BUFFER		
RING BUFFER + INO_INT		
TTLinMode	TTL X=#	TTL X?
TTLoutMode	TTL Y=#	TTL Y?

FilterWheel

FilterWheel		
Property	Set	Get
LockMode		
Offset	OF #OF	
SpeedSetting	SV #SV	
SpinOffOn		
VelocityRun	VR #VR	

LED

LED		
Property	Set	Get
Current Limit(mA)	WRDAC X=#	WRDAC X?
LED Intensity(%)	LED <channel>=#	LED <channel>?'
State	Open: LED <channel>=# Closed: LED <channel>=0	-

PiezoStage

PiezoStage		
Property	Set	Get
AutoSleepDelay(min)	PZ F=#	PZ F?
AxisPolarity	-	-
HomePosition(mm)	HM <axis>=#	HM <axis>?
JoystickFastSpeed		
JoystickInput		
JoystickReverse		
JoystickSlowSpeed		
LowerLim(mm)	SL <axis>=#	SL <axis>?
MotorOnOff	MC <axis>=#	MC <axis>?
PiezoMaintainOneMaxTime(ms)	PZ R=#	PZ R?
PiezoMaintainOneOvershoot(%)	PZ T=#	PZ T?
PiezoMaintainState	MA <axis>=#	MA <axis>?
PiezoMode	PM <axis>=#	PM <axis>?

PiezoStage		
Property	Set	Get
PiezoTravelRange(um)	-	-
RunPiezoCalibration	PZC	-
SetHomeToCurrentPosition	W <axis>	-
StepSize(um)	-	-
UpperLim(mm)	SU <axis>=# SU <axis>?	
VectorMove-VE(mm/s)	VE <axis>=# VE <axis>?	
WheelFastSpeed		
WheelReverse		
WheelSlowSpeed		
SINGLEAXIS_FUNCTION		
RING BUFFER		

PLogic

PLogic		
Property	Set	Get
BackplaneOutputState	-	RA Y?
ClearAllCellStates	! <axis>	-
EditCellCellType	CCA Y=#	CCA Y?
EditCellConfig	CCA Z=#	CCA Z?
EditCellInput1	CCB X=#	CCB X?
EditCellInput2	CCB Y=#	CCB X?
EditCellInput3	CCB Z=#	CCB Z?
EditCellInput4	CCB F=#	CCB F?
EditCellUpdateAutomatically	-	-
FrontpanelOutputState	-	RA X?
NumLogicCells	-	-
OutputChannel	CCA X=#	-
PLogicOutputState	-	RA Z?
PLogicOutputStateUpper	-	RA F?
PointerPosition	M <axis>=#	W <axis>
SetCardPreset	CCA X=#	-
TriggerSource	PM <axis>=#	PM <axis>?
PLogic Advanced Properties		
Property	Set	Get

PMT

PMT		
Property	Set	Get
ADC Averaging Size	E <axis>=#	E <axis>?
PMT Gain	WRDAC <channel>=#	WRDAC <channel>?
PMT Overload Reset	LK <channel>	-
PMT Overloaded	-	LK <channel>?

PMT		
Property	Set	Get
PMT Signal	-	RA <channel>?

Scanner

Scanner		
Property	Set	Get
AttenuateX(0..1)	D <axisX>=#	D <axisX>?
AttenuateY(0..1)	D <axisY>=#	D <axisY>?
AxisPolarityX	-	-
AxisPolarityY	-	-
BeamEnabled	Yes: TTL Y=1 No: TTL Y=1	-
FilterFreqX(kHz)	B <axisX>=#	B <axisX>?
FilterFreqY(kHz)	B <axisY>=#	B <axisY>?
JoystickFastSpeed		
JoystickInputX		
JoystickInputY		
JoystickReverse		
JoystickSlowSpeed		
MaxDeflectionX(deg)	SU <axisX>=#	SU <axisX>?
MaxDeflectionY(deg)	SU <axisY>=#	SU <axisY>?
MinDeflectionX(deg)	SL <axisX>=#	SL <axisX>?
MinDeflectionY(deg)	SL <axisY>=#	SL <axisY>?
ScannerTravelRange(deg)	-	-
SingleAxisXAmplitude(deg)		
SingleAxisXMode		
SingleAxisXOffset(deg)		
SingleAxisXPattern		
SingleAxisXPeriod(ms)		
SingleAxisYAmplitude(deg)		
SingleAxisYMode		
SingleAxisYOffset(deg)		
SingleAxisYPattern		
SingleAxisYPeriod(ms)		
VectorMoveX-VE(mm/s)	VE <axisX>=#	VE <axisX>?
VectorMoveY-VE(mm/s)	VE <axisY>=#	VE <axisY>?
WheelFastSpeed		
WheelReverse		
WheelSlowSpeed		
RING BUFFER		
MM_TARGET		
TargetExposureTime(ms)	RT Y=#	RT Y?
TargetSettlingTime(ms)	WT <axisX>=#	WT <axisX>?
FAST_CIRCLES		

Scanner		
Property	Set	Get
FastCirclesAsymmetry	MM Z=#	MM Z?
FastCirclesRadius(deg)	MM X=#	MM X?
FastCirclesRate(Hz)	MM Y=#	MM Y?
FastCirclesState	MM R=#	MM R?
MM_LASER_TTL		
LaserOutputMode	LED Z=#	LED Z?
LaserSwitchTime(ms)	LED Y=#	LED Y?

TunableLens

TunableLens		
Property	Set	Get
AxisPolarity	-	-
JoystickFastSpeed		
JoystickInput		
JoystickReverse		
JoystickSlowSpeed		
LensMode	PM <axis>=#	PM <axis>?
LowerLim(mm)	SL <axis>=#	SL <axis>?
LensTravelRange(units)	-	-
MotorOnOff	On: MC <axis>+ Off: MC <axis>-	MC <axis>?
UpperLim(mm)	SU <axis>=#	SU <axis>?
VectorMove-VE(mm/s)	VE <axis>=#	VE <axis>?
WheelFastSpeed		
WheelReverse		
WheelSlowSpeed		
RING BUFFER		
RING BUFFER + INO_INT		
TTLinMode	TTL X=#	TTL X?
TTLoutMode	TTL Y=#	TTL Y?

XYStage

XYStage		
Property	Set	Get
AccelerationX-AC(ms)	AC <axisX>=#	AC <axisX>?
AccelerationYAC(ms)	AC <axisY>=#	AC <axisY>?
AxisPolarityX	-	-
AxisPolarityY	-	-
BacklashX-B(um)	B <axisX>=#	B <axisX>?
BacklashY-B(um)	B <axisY>=#	B <axisY>?
DriftErrorX-E(um)	E <axisX>=#	E <axisX>?
DriftErrorY-E(um)	E <axisY>=#	E <axisY>?

XYStage		
Property	Set	Get
FinishErrorX-PC(um)	PC <axisX>=#	PC <axisX>?
FinishErrorY-PC(um)	PC <axisY>=#	PC <axisY>?
JoystickEnabled		
JoystickFastSpeed		
JoystickInput		
JoystickReverse		
JoystickRotate		
JoystickSlowSpeed		
LowerLimX(mm)	SL <axisX>=#	SL <axisX>?
LowerLimY(mm)	SL <axisY>=#	SL <axisY>?
MaintainStateX-MA	MA <axisX>=#	MA <axisX>?
MaintainStateY-MA	MA <axisY>=#	MA <axisY>?
MotorOnOffX	On: MC <axisX>+ Off: MC <axisX>-	MC <axisX>?
MotorOnOffY	On: MC <axisY>+ Off: MC <axisY>-	MC <axisY>?
MotorSpeedX(um/s)	-	-
MotorSpeedX-S(mm/s)	S <axisX>=#	S <axisX>?
MotorSpeedY(um/s)	-	-
MotorSpeedY-S(mm/s)	S <axisY>=#	S <axisY>?
UpperLimX(mm)	SU <axisX>=#	SU <axisX>?
UpperLimY(mm)	SU <axisY>=#	SU <axisY>?
VectorMoveX-VE(mm/s)	VE <axisX>=#	VE <axisX>?
VectorMoveY-VE(mm/s)	VE <axisY>=#	VE <axisY>?
WaitTime(ms)	WT <X>=# <Y>=#	WT <X>?
WheelFastSpeed		
WheelReverse		
WheelSlowSpeed		
SCAN MODULE		
ScanState	Idle: SN X=80 Running: SN	SN X?
ScanFastAxis	SN X=#	SN X?
ScanSlowAxis	SN Z=#	SN Z?
ScanPattern	SN F=#	SN F?
ScanFastAxisStartPosition(mm)	NR X=#	NR X?
ScanFastAxisStopPosition(mm)	NR Y=#	NR Y?
ScanSlowAxisStartPosition(mm)	NV X=#	NV X?
ScanSlowAxisStopPosition(mm)	NV Y=#	NV Y?
ScanNumLines	NV Z=#	NV Z?
ScanSettlingTime(ms)	NV F=#	NV F?
ScanOvershootDistance(um)	NV T=#	NV T?
ScanRetraceSpeedPercent(%)	NR R=#	NR R?
RING BUFFER		

ZStage

ZStage		
Property	Set	Get
Acceleration-AC(ms)	AC <axis>=#	AC <axis>?
AxisPolarity	-	-
Backlash-B(um)	B <axis>=#	B <axis>?
DriftError-E(um)	E <axis>=#	E <axis>?
FinishError-PC(um)	PC <axis>=#	PC <axis>?
JoystickFastSpeed	Yes: JS X=# No: JS X=-#	JS X?
JoystickInput	J <axis>=#	J <axis>?
JoystickReverse S: JoystickSlowSpeed F: JoystickFastSpeed	Yes: JS X=S Y=F No: JS X=-S Y=-F	No: JS X? >= 0 Yes: JS X? < 0
JoystickSlowSpeed	Yes: JS Y=# No: JS Y=-#	JS Y?
LowerLim(mm)	SL <axis>=#	SL <axis>?
MaintainState-MA	MA <axis>=#	MA <axis>?
MotorOnOff	On: MC <axis>+ Off: MC <axis>-	MC <axis>?
MotorSpeed(um/s)	-	-
MotorSpeed-S(mm/s)	S <axis>=#	S <axis>?
UpperLim(mm)	SU <axis>=#	SU <axis>?
VectorMove-VE(mm/s)	VE <axis>=#	VE <axis>?
WaitTime(ms)	WT <axis>=#	WT <axis>?
WheelFastSpeed	Yes: JS F=# No: JS F=-#	JS F?
WheelReverse S: WheelSlowSpeed F: WheelFastSpeed	Yes: JS F=S T=F No: JS F=-S T=-F	No: JS F? >= 0 Yes: JS F? < 0
WheelSlowSpeed	Yes: JS T=# No: JS T=-#	JS T?
SINGLEAXIS_FUNCTION		
RING BUFFER		
RING BUFFER + INO_INT		
TTLInputMode	TTL X=#	TTL X?

[Github Source Code](#) - Micro-Manager 2.0 (Latest)

[software, micromanager](#)

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