

Command:OS

MS2000 or RM2000 syntax

Shortcut	OS
Format	OS [axis] = [distance]...
Units	Millimeters
Remembered	Using SS Z

Tiger syntax

Shortcut	OS
Format	OS [axis] = [distance]...
Units	Millimeters
Type	Axis-Specific
Remembered	Using [addr#]SS Z

This command sets (or displays) the amount of distance in millimeters to travel to absorb the backlash in the axis' gearing. Analogous to backlash, but will always overshoot the desired position by the set amount and then come back towards the move's origination, whereas backlash always approaches from the same direction. Backlash move, if any, occurs before the overshoot move. Default is 0, which turns the overshoot routines off. When queried will return the actual value instead of the user-set target value

Example:

```
OS X=.05 Y=0
:A
OS x?
:X=0.049981 A
```

The command in this example will make the controller overshoot any X moves by location 50 microns before moving to the final target, while the overshoot algorithm for the Y axis is disabled.

TGTLC Syntax (Tiger only)

This command will return the current temperature, in degrees Celsius, from any active tunable lenses connected to the Tiger Tunable Lens Card ([TGTLC](#)). If a lens is not connected to that axis, or there is a communication error with it, [Error 201](#) will be added to the [error buffer](#), and that axis' temperature reading will be set to the default value of 30.0C.

Example:

```
OS V? W?
:A V=22.875000 W=30.000000
OS V? W?
:A V=22.875000 W=30.000000
OS V?
:A V=22.875000
```

On a tunable lens card, writing values with OS will do nothing, as Overshoot is not implemented for TGTLC.

[commands](#), [tiger](#), [ms2000](#), [temperature](#), [TGTLC](#)

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