

LSXE

MOTOR: index to motor to configure:

- | '1' – retroviewer mirror
- | '2' – UV filter
- | '3' – aperture
- | '4' – zoom lens
- | '5' –

Note:

In this release of the LSXE controller f/w only the zoom lens motor supports a variable speed profile.

[Command Set](#)**MOTOR CONTROL**

Moves devices controlled by motors.

[Command Set](#)

HOST

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MOTOR: index to motor:

- | '1' – retroviewer mirror
- | '2' – UV filter
- | '3' – aperture
- | '4' – zoom lens
- | '5' – secondary tile

POSITION: indicates target position (refer to table below)

STATUS: indicates success/failure:

- | '0' – motion not completed

SWITCHES: indicates the state of the position sense switches (refer to table below)

[Command Set](#)**ADJUSTABLE END-USER POSITIONS**

This is used to set/query the end-user positions for the motorized mechanisms

[Command Set](#)

HOST

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MOTOR

LAV ON is the position at which the LAV switch closes when moving LAV-bound
SAV ON is the position at which the SAV switch closes when moving SAV-bound
LAV OFF is the position at which the LAV switch opens when moving SAV-bound
SAV OFF is the position at which the SAV switch opens when moving LAV-bound

By convention, the switch "closes" when the lens mounting ring is seen by the detector

[Command Set](#)

[Command Set](#)

UV CONTROL PARAMETERS

Sets/queries values to control the UV filter

[Command Set](#)

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NUMBER OF SETTINGS: indicates the number of LENS, NOMINAL, CALIBRATED, and QPC sets that follow; s zero to query

SPOT SIZE: in 0.001"

NOMINAL: setting for nominal UV content, 0 to 1000 (meaning 0 to 100% with 0.1% resolution)

- | 'FFFF' – do not modify

CALIBRATED: setting for calibrated UV content, 0 to 1000 (meaning 0 to 100% with 0.1% resolution)

- | 'FFFF' – do not modify

SET QPC: indicates whether the Q, P, C Ganz whiteness parameters that follow are to be recorded

- | '0' – do not modify Q, P, C

[Command Set](#)

SENSOR PARAMETERS

Sets/returns sensor parameters.

[Command Set](#)

HOST

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INDEX: index to parameter (refer to table below); the value of the index specifies the type of the parameter, as follows:

- | '0XXX' – 16-bit integer
- | '1XXX' – 32-bit integer
- | '2XXX' – floating-point value

NUMBER OF SETTINGS: indicates the number of SPOT SIZE, VALUE sets that follow; set to zero to query

SPOT SIZE: in 0.001"

VALUE: specifies the : specifies t

[Command Set](#)

SELECT STANDARDIZATION MODE

Sets/queries current standardization mode

[Command Set](#)

HOST

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MODE

[Command Set](#)**STANDARDIZE**[Command Set](#)

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TILE: tile to read

- | '0' – black glass
- | '1' – primary white tile (includes secondary tile hitch/standardize)
- | '2' – secondary white tile
- | '3' – hitch secondary white tile
- | '4' – external secondary white tile
- | '5' – hitch external secondary white tile
- | '6' – primary white tile only

STATUS: indicates success or failure

- | '0' – failure

PORT PLATE SIZE: size of port plate (in .001")*Note:*

Reading the primary white tile automatically hitches to, and standardizes to, the secondary white tile

[Command Set](#)**PHOTOMETRIC DATA**[Command Set](#)

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TIME REFERENCE: current time and date (stated in seconds) to be used as reference by the sensor's real time count

- | 'FFFFFFFF' – do not change

RESTORE DEFAULTS: indicates whether to restore flash ROM settings

- | '0' – do not restore

SAVE AS DEFAULTS: indicates whether to save current settings to flash ROM (requires PASSWORD)

- | '0' – do not save

FLASH COUNT: number of times the lamp has been flashed

LAMP OUTPUT: current lamp output (referenced to original counts)

- | 1.00 --> 100%

[Command Set](#)

CALIBRATE DEVICES

Invokes the calibration procedure for the motors in the system.

[Command Set](#)

HOST

LSTATUS Tj ET q 17236 -57.24 52164 3.68 re h W n BT 17236 -6.12 wTD /F0 12 Tf -0.0184 Tc 0.0142 Tw (: inc

normal operation until calibrated)

- ı '0' – not calibrated

Returns the state of the system's sensors

[Command Set](#)

HOST

'D'	'0005'
[1]	[4]

LSXE

MIRROR	UV FILTER
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MIRROR, UV FILTER, APERTURE, ZOOM, TILE: state of position sense switches, see table

PLATE INDEX: state of port plate sensors ('0' thru '7')

PORT PLATE SIZE: diameter of port plate (in 0.001")

[Command Set](#)

MACRO

Asynchronous message issued by the sensor whenever the built-in read button or footswitch is pressed

[Command Set](#)

HOST

Not applicable

[Command Set](#)

CAPABILITIES

Returns the sensor's capabilities

[Command Set](#)

HOST

'#'	CAPABILITY

LSXE

CAPABILITY 0: Sensor identification

Values are returned as [strings](#)

CAPABILITY 1: Serial Number

Values are returned as [strings](#)

CAPABILITY 10: Spectral data range

CAPABILITY 100: Illumination spot sizes available

Values are stated in 0.001" using 16-bit integers

