LSXE

MOTOR: index to motor to configure:

- ı '1' retroviewer mirror
- 1'2'-UV filter
- ı '3' aperture
- ı '4' zoom lens
- ı '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

LSXE

MOTOR: index to motor:

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

POSITION: indicates target position (refer to table below)

STATUS: indicates success/failure:

ı '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
LSXE
MOTOR

Page

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



UV CONTROL PARAMETERS

Sets/queries values to control the UV filter

Command Set

HOST

LSXE

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)

ı 'FFFF' – do not modify

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



ı 'FFFF' – do not modify

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

ı '0' – do not modify Q, P, C

Command Set

SENSOR PARAMETERS

Sets/returns sensor parameters.



HOST

LSXE

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

ı '0XXX' - 16-bit integer

ı '1XXX' – 32-bit integer

ı '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



			ar	- 1	α	
\mathbf{O}	m	m	ar		•	$\Delta 1$
 .,				IV I		v

SELECT STANDARDIZATION MODE

Sets/queries current standardization mode

Command Set

HOST

LSXE

MODE

Command Set

STANDARDIZE

Command Set

HOST

LSXE

TILE: tile to read

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

STATUS: indicates success or failure

ı '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



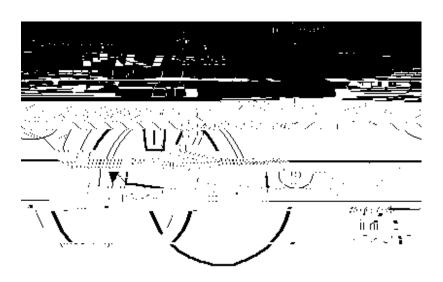
Command Set	Page 2

Command Set	Pag	зe

 $file://C:\ Documents\ and\ Settings\ felicia\ Local\ Settings\ Temp\ \sim hhF93F.htm$

Command Set

Page 2



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

ı 'FFFFFFF' – do not change

RESTORE DEFAULTS: indicates whether to restore flash ROM settings

 $1 \quad '0' - do \text{ not restore}$

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

1 '0' - do not save

FLASH COUNT: number of times the lamp has been flashed

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

ı 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 (: ind

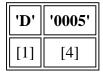
normal operation until calibrated)

ı '0' – not calibrated

Returns the state of the system's sensors

Command Set

HOST



LSXE



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

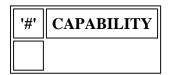
Command Set

CAPABILITIES

Returns the sensor's capabilities

Command Set

HOST



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