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COMMAND LIST

Evve Long Range - ELR

MK-Series

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1 | ELR CAMERA COMMANDS

OVERVIEW	
PRESETS 1 to 64	Normal view presets, store pan, tilt, zoom and focus also via various extra parts.
Store for Camera	Camera file number
Store for Yamano Lens	
PRESETS 70 to 80	Lens presets are always active
PRESETS 81 to 85	Always active. Allow selection of camera file.
Aux 5 on	Displays camera active and allows use of full range of camera presets and joystick to control camera menu, preset 88 to enter menu, preset 89 to exit menu
Aux 6 on	Displays Laser active and will allow control of laser movement

2 | COMMANDS FOR HITACHI CAMERA

COMMANDS FOR CAMERA HD1005 / HD1006 GOTO PRESET COMMANDS	
Case 81	Camera file 1 // select camera file1
Case 82	Camera file 2 // select camera file2
Case 83	Camera file 3 // select camera file3
Case 84	Camera file 4 // select camera file4
Case 85	Camera file 5 // select camera file5
Case 86	Fog System Off
Case 87	Fog System On
Case 88	Menu_on // Enter Camera Menu
Case 89	Menu Set Command
Case 90	Menu Exit, Menu_display_off // Exit Camera Menu
<p>When menu is displayed left right up and down issue single arrow commands, if held then issues 4 commands a second until released.</p> <p>To select camera commands when joystick movement not sufficient use preset 89.</p> <p>To exit menu use preset 90.</p>	

EXAMPLE FOR HITACHI CAMERA XXXX	
5 aux	- To enable camera mode
88 <p>	- Enter menu
Down	
Down	
Down	
Down	
Down	
Down	
Down	- Level with title

CONTINUED: EXAMPLE FOR HITACHI CAMERA XXXX	
Right	- Into title
Down	
Down	
Right	- Start inserting title text
Right	
Right	
89 <p>	- Stop inserting test
Up	
Up	
Left	- Back to Main Menu
89 <p>	- Save Settings
90 <p>	- Exit Menu System
5 aux off	- Exit Camera Mode

SAVE PRESET COMMANDS	
Case 81	Store Camera File 1
Case 82	Store Camera File 2
Case 83	Store Camera File 3
Case 84	Store Camera File 4
Case 85	Store Camera File 5

3 | COMMANDS FOR YAMANO LENS

YAMANO LENS FUNCTIONS GOTO PRESETS	
Case 70	Active_filter = 0xcfc; // 4 Different Filter States
Case 71	Active_filter = 0xdf;
Case 72	Active_filter = 0xef;
Case 73	Active_filter = 0xff;
Case 74	// x2 On
Case 75	// x2 Off
Case 76	// Autofocus One Shot, Cleared after sending Command
Case 77	// Stabiliser On
Case 78	// Stabiliser Off
Case 79	// Enable Auto Iris On
Case 80	// Auto Iris (i.e. Never Cuts in)

4 | ELECTRONIC END STOPS (PT-UNIT)

ELECTRONIC END STOPS PAN & TILT UNIT	
91	Set Left
92	Let Right
93	Set Up
94	Set Down
95	Release Left
96	Release Right
97	Release Up
98	Release Down
99	Set Level Elevation and North Position for Absolute Control

5 | LASER CONTROLLER PCB

Changes made between version 2 and 3. Version 2 released 10 April 2017.

1. Update laser status on oLED menu when turned on – see VS001.
2. Ensure only Rx55x mode is available, this is a reduction of features – see VS002.

Laser PCB controls and functions Version 1 – April 4th 2016.

The PCB display shows Pelco or Reciever mode, The unit defaults to Pelco mode.

From the PCB display and the buttons it is possible to select the receiver mode, menu item one, and if in Pelco mode then select the camera address the unit responds to, 1 - 127.

The communication protocol is Pelco D 2400, or RxHelix internal format. In RxHelix mode no addressing is possible, the unit is tied to the receiver.

The PCB display also displays the following information:

LASER MODULE	1P
LASER ON	XXX
Power Settings	50
LASER ZOOM O	3045

Preset Pos 15.

Typical Display.

Push the PCB switch button to enter the PCB menu.

Laser Status	OFF or XXX
Laser Brightness	0 to 100
Zoom Status	I,x,O and position 0 - 7000

Preset position when last command is a GOTO preset

On power up, the unit will attempt to seek to home position and reset the position counters.

Home is lens closest to laser emitter.

If preset 98 has been programmed the unit will then immediatley seek to this position, be aware of laser beam and how narrow the beam is at this default position.

The unit now waits for input via the serial port (green 5 way connector RS422).

Correct commands are answered with a Pelco general response.

The unit in Pelco mode responds to joystick movement commands. Zoom commands narrow or widen the laser beam emitted.

Iris commands increase or decrease the brightness of the laser in 5% steps.

Store preset commands function 1-69 and 90-98.

GOTO preset commands function as expected.

Deleting a preset is also possible from a Pelco keypad.

Preset 98 is reserved for the initial position after power up if programmed.

Preset 99 causes the unit to reset the zero position.

Both Homing and GOTO preset commands will time out if the unit cannot complete the action. At this point the unit continues to function however the positioning will be inaccurate.

Aux 3 ON will cause the laser to turn on.

Aux 3 OFF has the opposite effect.

Please note turning the laser on takes half to one full second.

Preset stores the following information:

- > Laser ON/OFF
- > Laser power setting 0 - 100%
- > Zoom position

When being used in RxHelix mode comms is direct from the receiver, there is no addressing required, the unit must be setup in Helix mode and display an R in the top right hand corner of the screen (local PCB screen).

The receiver will only send telem commands to the laser if Aux 6 is selected.

Preset commands are always sent.

Only presets 1-32 are available.

Aux 6 ON Displays Laser active and will allow control of laser movement.



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