



Lens Controller Operations- Cheatsheet

- buttons
 - power on while holding
 - init: sensorcal
 - focus limit: new wireless channel changing
 - io limit: nothing
 - select: nothing
- processes
 - setting wireless channel
 - plug hand controller into lens box via can/serial
 - power on hand controller holding focus limit button
 - focus and iris limit LEDs will ping-pong until you release the focus limit button, then it will flash the current channel.
 - focus led: ones, iris led: tens
 - to set a channel, click the iris and/or focus limit buttons. e.g. to set channel 11, click both buttons once.
 - setting limits
 - limits only exist for iris and focus. they work the same as the cv/ia limits on the 3d hand controller
 - move the control to where you want it (say, a particular focal length). push and hold the limit button and move to where you want the other limit set.
 - release the limit button
 - now, the limit LED should be on and the full travel of the sensor should be scaled so that it moves the lens only within the two points you selected.
 - locking out a sensor
 - this also only works for iris and focus.
 - hold the limit button down for more than six seconds without moving the sensor, the limit LED will start flashing more rapidly
 - release the button
 - that control is now locked out, changes are not sent to the lens control box.
 - the limit LED will flash periodically, to let you know that the control is locked out.
 - to unlock, hold the limit button for more than six seconds, the led will change again to let you know you've unlocked the control
 - setting zoom wheel speed
 - the spring-loaded zoom wheel can be adjusted some to change how fast it zooms.
 - the slider is used to adjust the speed. pushing the select button sets the speed based on where the slide pot sensor is. minimum - slowest, maximum - fastest.
 - unfortunately this collides with iris control. ENG style lenses do not use the slider for iris control, but the six axis lens controller does. You should set your speed before setting your iris.
 - lens profiling
 - hold the profile button down for >2 seconds, until the profile LED starts flashing
 - with the hand controller you can set two profile points, one at either end of the travel of the channel
 - using focus as an example:
 - focus close
 - push and hold the focus limit button
 - the focus wheel will now only move one lens, move it until it matches the other
 - release the focus limit button
 - when you release the button that matching point is saved
 - same process can be used for iris and zoom:
 - buttons
 - iris limit button = iris profile
 - focus limit button = focus profile
 - Select button = zoom profile
 - profiles are saved on the lens controller box, not the hand controller.
 - you can turn profiling on and off by tapping the profile button the hand controller. the LED is lit when profiling is enabled.
 - sensor cal
 - hold initialize while powering on the hand controller. all leds should flash a few times.
 - for each sensor:
 - move the sensor to its minimum position (which ever way you want to be minimum)
 - push and hold the button for a given sensor
 - move then sensor to its maximum position
 - release the button
 - buttons
 - iris limit button = slide pot
 - focus limit button = focus wheel
 - Select button = zoom wheel
 - upgrading
 - format microsd for FAT32. MUST BE FAT32. Even if it is a small microSD card. Windows may default to FAT. Change it to FAT32.
 - put firmware file on microsd
 - put microsd into hand controller, the cage is under the battery.
 - power on the hand controller. the battery LED will flash, then go solid green
 - take the microsd out
 - power cycle the controller. you're done.
 - if a hand controller doesn't work after doing an upgrade, try a sensorcal.
 - if the upgrade doesn't work, check: FAT32. maybe try a different brand microsd, some work better then others.

