

Northern Lights Electronic Design, LLC – NLED Aurora Control Software – v.1g

To Initiate a Command:

Host Sends (ASCII Characters): "NLED11" → Device Responds: "a9" → Host Sends: "nled99" → Device Responds: "f0"

Then Host Sends(As Numbers): Command Byte → Data1 → Data2 → Data3 → Data4

Email Support@NLEDshop.com for help and any questions.

Updates, Download and More Information at

www.NLEDshop.com/nledcontrol



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<u>Command</u>							
<u>Command Name:</u>	<u>Number:</u>	<u>Data 1</u>	<u>Data 2</u>	<u>Data 3</u>	<u>Data 4</u>	<u>Usage</u>	<u>Description</u>
Upload Configurations	1	Special, see device manual	0	0	0		Proprietary, no info available
Data Dump	3	0	0	0	0		Not for use by User, Debug command
Connect Device	4	0	0	0	0	Responds with, HardwareID → Firmware Version → Firmware Revision	Controller responds with its hardware/firmware details
Dot Correction Upload	56	0	0	0	0	Send bytes equal to channel amount, values 0 – 63	For Compatible Controllers, see hardware info for details
USB Live Control	60	1 for on, 0 for off	1 for 16-bit Mode 0 or any for 8-bit mode	Channel Amount MSB*	Channel Amount LSB*	Once Enabled, send Channel Amount of bytes in the output order. Won't latch Until the full packet is received. *Not required if device's max channels is less than Enable/Disable LiveMode 64	
Pause Device	62	0 to toggle, 1 to pause, 2 to play	0	0	0	Each Command Toggles Pause State	
Speed Over Ride	70	New Speed MSB	New Speed Middle	New Speed LSB	0	Either send 0 -255 in data2 with data1 as 0 to change the speed or encode send an integer using data1 and data2	Alters the Speed, Sent as Unsigned Integer
Demo Pattern Upload	75	-	-				Proprietary, no info available
Select Sequence by Number	80	Setting Number(0-11)	Starting Frame(Flash Only)	1 for Stall, 0 for Run	1 for ignore index, 0 to use		
Flash Stepping	82	1 for Forward, 0 for Backward	-			First run CMD: 80, to load the Flash setting and prepare it for Stepping Then use CMD: 82 DATA: 1 for Forwards, 0 for Backwards	
Fade Control	85	Amount MSB	Amount LSB	0	0	First run CMD: 80, to load the Cycle setting and prepare it for Control Then CMD: 85, Data1: Integer MSB, Data2: Integer LSB	Stalls a cycle pattern and waits for command to allow it to cycle a variable amount of times. Variable should be a unsigned integer. Sending 200 will let each channel cycle normally 200 times. It takes 255 x (Amount Of Frames) for a full rotation of the setting's colors. No Linked.
Setting Down	90	0	0	0	0	Just send command	Decrement Setting, as if the button was pressed
Setting Up	91	0	0	0	0	Just send command	Increment Setting, as if the button was pressed
Color Swap	99	0 or 1-6	0 for function or 1+ to reset	0	0	Send 0 to increment Color Swap Mode, or send 1 – 6 to set the mode, See image below for details	Swaps the colors based on 6 methods(including unaltered) See documentation for details. Data 2 should be 0 to run the function, or to reset Color Swap send anything but 0 in Data 2
Full Upload	100	Packets to receive MSB	Packets to receive LSB	Max Sequences	0	Sends all Sequences, addresses, and index from NLED Control Software	Used through NLED Control only, method is proprietary
Request Configurations	120	0	0	0	0	Responds with 16bits of Config flags, MSB first	
Enter Bootloader Mode	140	0	0	0	0	Enters device into bootloader mode, will need to close serial connection and open bootloader software	



<u>HotKeys</u>	<u>Key</u>	<u>Description</u>
Quick Save	s	Saves to quicksave.txt
Adjust Slider Up	Right Arrow	Affects last slider that was adjusted by the user
Adjust Slider Down	Left Arrow	Affects last slider that was adjusted by the user



NOTE: Initiate commands are sent and received as ASCII characters. The command and data bytes are sent as Numbers.



Color Swap Methods: NLED Aurora Control v.1

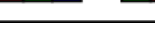
1: Normal  >  www.NLEDshop.com/nledaurora

2: Shift Forward  > 

3: Shift Backward  > 

4: Red Same, Swap Green and Blue  > 

5: Green Same, Swap Red and Blue  > 

6: Blue Same, Swap Red and Green  > 