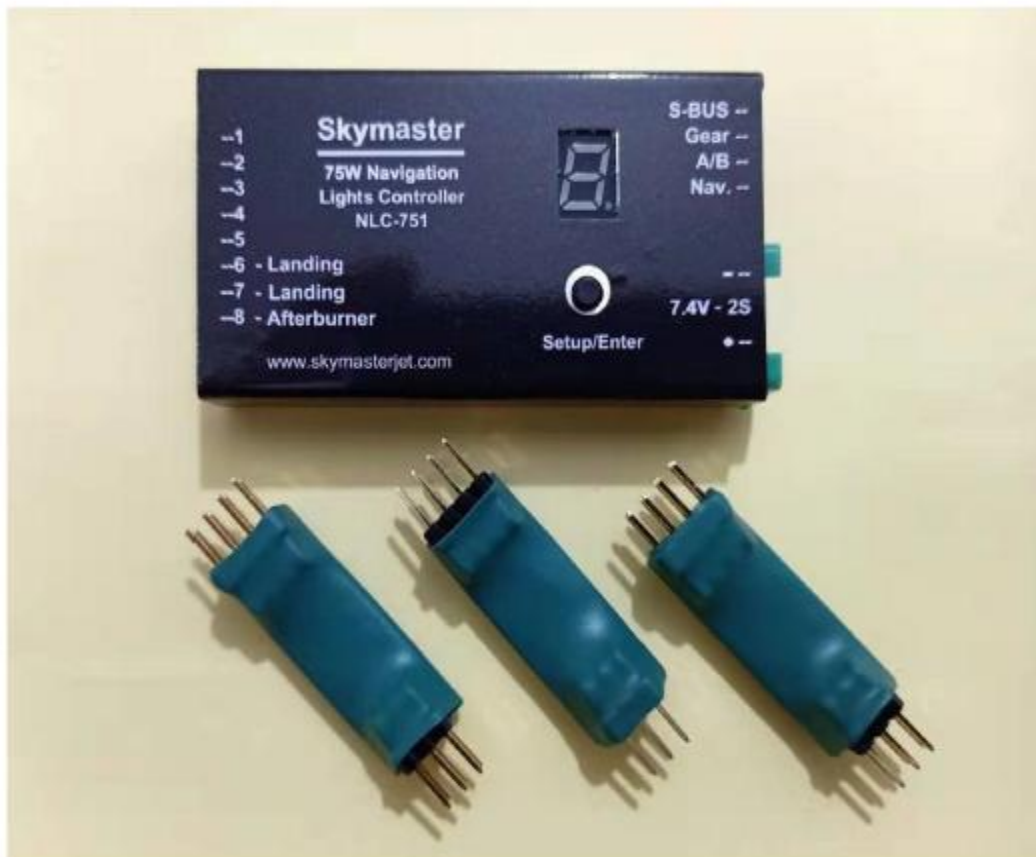# NLC-751
75W Multi-functional Navigation Lights Controller
User Manual

Version V 1.2

75W Multi function lights controller instruction manual

Thank you for choosing skymaster Multi function lights controller,which combine afterbuner light/navigation light/gear light in one unit.With up to 75W output,it can connect 25pcs of LED lights(each with 3W ultra lightness). This product is also compatible with S-BUS system. Customers can freely set up signal channels.With simply one connection wire,all functions can be controlled.Controller is made of aluminum alloy.It is smaller,but stronger and durable.It is suitable for 99% of jets in the market.You will enjoy convenience after installing this controller.

Product specifications:

1.input voltage:2S/7.4V

2.lighting mode: 5 flashing modes,lightness can be adjusted.

Quantity of output lights:

Left wing:2 lighting sets(maximum 4pcs of lights with 3W each)

Right wing: 2 lighting sets(maximum 4pcs of lights with 3W each)

Vertical fin/belly: 1 lighting sets(maximum 3pcs of lights with 3W each)

Landing gear: 2 lighting sets(maximum 3pcs of lights with 3W each)

Afterburner:1 lighting set (Y wire is needed for 2 lighting rings)

3.output expanding device: output for maximum 4 lighting sets ,supplied with resistance lamp,simply plug in and work

4.Input channel signal control(to the Receiver):

   Gear(refer to landing gear light channel)

   Nav.(refer to navigation light channel)

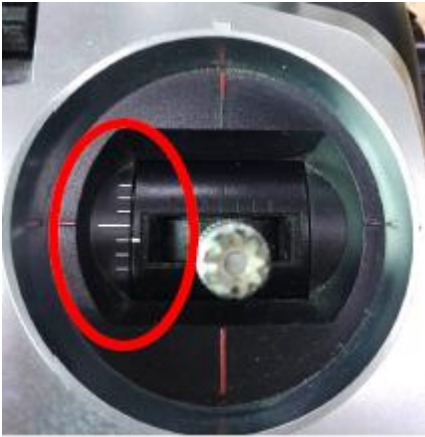   A/B (refer to afterburner light channel)

   S-BUS

5.Measurement:69*35*10mm

Warning:

1. Before using this controller,pls make sure to read manual.The device will be damaged when any socket is plugged in by error or polar short-circuit .

2. Before setting up function,pls prepare transmitter or servo adjust equipment.Most of incoming setting is completed by transmitter or servo adjust equipment.

3. The quality of Led lamps are different.Some are good,some are pad.Pls choose reputable product or use ones supplied by our company

4. In the process of brightness adjustment,all channels lights are shining all the time,so you can watch and compare sameness of brightness.The other advantage is LED lamps life will be extended by proper adjustment of standard brightness,instead of damage caused by high power for long time.

5. During adjustment of brightness, when brightness is not increased even after further adjustment,pls stop increasing brightness.It means this is maximum brightness already.When you continue to adjust it, only more hotness is caused,and it doesn't help energy conservation;

6. light brightness data recommended:
    transmitter=throttle stick 1/3 travel max.)

Setting procedures:

1. **#1~#7 output channel brightness and flashing mode setup:**

(1) Connect transmitter to A/B channel(input) of controller.
(2) Press Setup/Enter key for 2 seconds until screen shows like below photo.It means #1 channel is being set up.

(3)Press Setup/Enter key quickly again and screen shows like below photo.It means brightness setup.brightness is changed by moving throttle stick on transmitter.pls note the maximum move travel is 1/3.

(4)Press Setup/Enter key once.The screen shows like below photo.It means flash mode setup.

(5)Then select flash mode. Screen displays the following blink sequence.(6 flash modes)

(6) Press Setup/Enter key for 2 seconds and enter #2 channel setup.

Repeat (3) (4) (5) steps and finish setup for rest channels.(#2,#3,#4,#5,#6,#7)

2. Landing gear channel reverse setting

Keep pressing Setup/Enter key by 8 times until screen displays below photo.Now enter landing gear signal reverse setup mode.

Press Setup/Enter key again and enter mode setup.

Below photo shows standard mode:

Below photo shows reverse mode:

3. Navigation lights mode setup

Keep pressing Setup/Enter key by 9 times until screen displays like below photo.Now enter navigation lights setup.

Press Setup/Enter key again and enter mode setup.

Below photo shows automatic control mode:

Below photo shows control by transmitter mode:

4.S-BUS channel setup

Keep pressing Setup/Enter key by 10 times until screen displays like below photo.Enter S-BUS channel definition setup.Letter C stands for navigation lights. Letter d stands for landing gear light. Letter E stands for afterburner light

Press Setup/Enter key again and enter <u>channel position</u> setup.Below photo shows channel 1.

Similarly, maximum 18 channels positioncan be defined repeatedly like above step.
Below photo shows screen display S-BUS channel position from 1~9

Below photo shows screen display S-BUS channel position from 10~18

5.Complete setup. For any setup procedure,you need to keep pressing Setup/Enter key until display flash,which means setup is completed.following photo is example.

After you finish all setup procedures as above,you can enjoy this controller!

Controller quick setup:

1. Connect lights to output channels on the controller, according to the functions of each channel as defined below.

#1 and #2 output lights are always on.

#3,#4 and #5 output lights flash.

#6 and #7 output lights are always on.

2. Connect output channels(S-BUS/Gear/ A/B /Nav. to receiver/transmitter correctly.

Once you finish all proper connections, the controller is auto setup and you don't need do more.