AstroComms UAL

Software User Manual v1.0 - 10/2020

Welcome to this manual

This manual will show you how to use your UAL board.

First connect a USB cable to your UAL and open Arduino IDE (or any other app that supports a serial terminal using USB), but Arduino IDE it's highly recommended.

You will see the following welcome message on the app

```
Welcome to Utility Arms Logic - UAL
Developed in 2020 by Walex and designed by Nitewing based on Tarla76's
concept

You can enter commands directly on the terminal or type '/help' for more
information.
Do not forget to send CR after the command.

Do you need assistance?
Please visit www.astrocomms.net for more info
Much to learn you still have my old Padawan. This is just the beginning
```

UAL uses AstroComms Droid Protocol (ACDP) for receiving orders.

This is an example of a valid command: /AC/UAL/S01C01B020F050W1000
Please note that you need to add a carriage return after each command.

Every ACDP must start with /AC to specify an AstroCommms device it's being addressed and after that /UAL must be written to tell the protocol you are talking to an UAL unit. Addressing its completing by adding / to the command.

Following parameters are accepted

    Sxx: Sequence number (from 0 to 6) both included
    Cxx: Color number (from 0 to 9) both included
    Bxxx: Brightness value (from 0 to 255)
    Fxxx: Frame speed (from 0 to 999) indicating milliseconds between each led update
    Wxxx: Wait time (from 0 to 9999) indicating milliseconds pause after command issued

Sequences

    S00: Turn off all leds. Params used: None
    S01: Finn data upload. Params used: BFW
    S02: Customizable Finn data upload. Params used: CBFW
    S03: Theater Chase. Params used: CBF
    S04: Color Wipe. Params used: CBF
    S05: Rainbow. Params used: BF
    S06: Theater Chase Rainbow. Params used: BF

Colors
    0 Black, 1 Red, 2 Yellow, 3 Green, 4 Cyan, 5 Blue, 6 Magenta, 7 Orange, 8 Purple, 9 White

DISCLAIMER