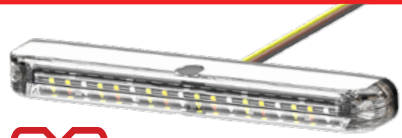










## Installation and Operation Instructions Infinity US6 Directional



INFINITY US6

### Product Description

Redtronic's Infinity US6 is an extremely slim versatile warning device. It is available in single, dual and tri-colour options to meet the needs of all applications from amber safety and commercial vehicles to emergency services and covert vehicles.

Part Number	Colour	Voltage	Colour Type	Warranty
DIFX-006-AC		11-32VDC	Single Colour	3 years
DIFX-006-BC		11-32VDC	Single Colour	3 years
DIFX-006-GC		11-32VDC	Single Colour	3 years
DIFX-006-RC		11-32VDC	Single Colour	3 years
DIFX-006-WC		11-32VDC	Single Colour	3 years
DIFX-006-ARC		11-32VDC	Dual Colour	3 years
DIFX-006-AWBC		11-32VDC	Tri Colour	3 years
DIFX-006-RWBC		11-32VDC	Tri Colour	3 years

### Flash Patterns

1	Quad
2	Triple
3	Double
4	Single
5	Quad/Single
6	Quad/Triple/Double/Single
7	CAP168 - unlock with brown to +ve for 10 seconds

### Spare Parts

We have single and double shroud / mounting pods available for windscreen applications.

Part Number	Description
SP_US6SHROUDS30	30° Single Shroud / Mounting Pod
SP_US6SHROUDD30	30° Double Shroud / Mounting Pod
SP_US6SHROUDS60	60° Single Shroud / Mounting Pod
SP_US6SHROUDD60	60° Double Shroud / Mounting Pod



## Technical Information



Voltage Range	11-32VDC
Directional Type	Unique wide angle intense optic with Ultra-bright latest generation LEDs
Number of LEDs	18 (Tri), 12 (Dual) and 6 (Single)
Amps / Current Peak Max	600mA at 12VDC
LED Power	18 watts (single colour), 36 Watts (dual), 54 watts (tri-colour)
IP Rating	IP69K protection against dust and water ingress
Approval	ECE R65 Class II (blue and amber), CAP168/ ICAO
Compliant	EMC R10
DIM Mode	Yes (night and day)
Cruise	Cruise feature available
GATSO	GATSO light feature available
Synchronisation	Yes with other Redtronic products
Weight	38g
Operating Temperature	-40 to +105 °C
LED Min Life Cycle (Steady Burn)	32,500 hours
LED Min Life Cycle (Flashing-CAP168)	65,000 hours
Lens Material	Ultra-strong UV stabilised polycarbonate lens
Mounting	Window shrouds/pods or L-bracket
Warranty	3 years

## Cable Connections

Function	Cable Colour	Description
Power 1 +ve	<b>Red Wire</b>	Power 1 - powers primary colour
Power 2 +ve	<b>Orange Wire</b>	Power 2 - powers secondary colour
Ground -ve	<b>Black Wire</b>	0v ground / earth
Pattern +ve	<b>Brown Wire</b>	Changes the flash pattern by momentarily applying to a positive. Apply to +ve for 2-3 seconds to revert to quad flash (pattern 1)
DIM + ve	<b>Blue Wire</b>	Activate night mode
Synchronisation	<b>Yellow Wire</b>	Link to other Redtronic products
Configuration	<b>Green Wire</b>	Colour function selection

## Installation

Connecting the Infinity US6 directionals to a vehicle battery / power source requires the **black wire** to be connected to the **negative** [-ve] terminal, and either the **red wire** (V1), **orange wire** (V2) or V1 and V2 together (V3) to be connected to **positive** [+ve] terminal. Pattern and mode functions need to be set in the same manner as the primary **red wire** colour. Disconnect the **red wire** to set the secondary functions as desired. All Infinity US6 directionals are set to double flash pattern as default before leaving the factory.

### To set colours:

Connect the **red wire** (V1), **orange wire** (V2) or V1 and V2 (V3) wire to **positive** [+ve] and the **black wire** to **negative** [-ve] terminals on the power source. Hold the **yellow wire** to the negative [-ve] terminal and the **green wire** to **positive** on the power source. The US6 will activate in either a flashing or steady burn (GATS0) option, these are colour select modes. Scroll through the 9 optional 'colour programs' by applying the **brown wire** to **positive** [+ve] momentarily.

#### DIFX-006-AWBC

Single Colour Flash	<u>1</u> Blue	<u>2</u> Amber	<u>3</u> White
Steady Burn	<u>4</u> Blue	<u>5</u> Amber	<u>6</u> White
Dual Colour Flash	<u>7</u> Blue/Amber	<u>8</u> Amber/White	<u>9</u> White/Blue

#### DIFX-006-RWBC

<u>1</u> Blue	<u>2</u> Red	<u>3</u> White
<u>4</u> Blue	<u>5</u> Red	<u>6</u> White
<u>7</u> Blue/Red	<u>8</u> Red/White	<u>9</u> White/Blue

### To set the alternate flash mode:

You can either set V1 to alternate against V2, or utilise the colour setting mode to combine an alternating feature on a single control line. If you want to keep them individually controlled: connect the **red wire** (or **orange wire**) to **positive** [+ve] and the **black wire** to **negative** [-ve] terminals on the power source. Hold the **yellow wire** to the **negative** [-ve] terminal on the power source. The US6 will turn from flashing to 'steady burn'.

While holding the **yellow wire** on the **negative** [-ve] terminal, hold the **brown wire** to the **positive** [+ve] terminal. After 2 seconds, the unit will extinguish for 5 seconds, after which the US6 will start a quick succession of flashes. Remove the **brown wire**, the unit should now be flashing alternately to any US6's it synchronises with.

### To set the flash pattern:

With the US6 powered on, the **brown wire** should be connected to **positive** [+ve] terminal from the power source momentarily, to change to the next pattern. Either touch the wire to **positive** [+ve] briefly, or connect via a momentary switch and press to change pattern.

### To set the DIM function:

Connect the **blue wire** to **positive** [+ve] at the power source to enable DIM (night) mode. The **blue wire** needs a constant connection to **positive** [+ve] to operate in this mode. The US6 will return to full brightness when the **blue wire** is disconnected.

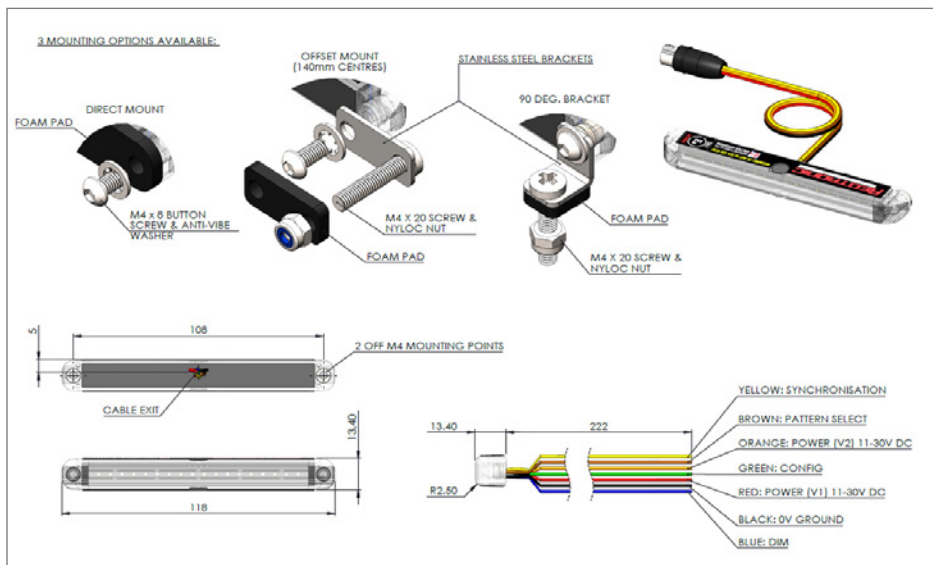
## To synchronise US6's:

When the desired flash pattern and mode has been set, connect the **yellow wires** from each US6 together, this will ensure all US6 flash in synchronised format. Note: **Do not** apply **yellow wires** to **positive (+ve)**. **Do not** attempt to sync Redtronic products with any other manufacturer's products.

## To set the TD-Sync:

Please refer to our "Infinity US6 Traffic Director Installation Guide".

## Installation Diagram



## Warranty and Liability

Redtronic warrants that on the date of purchase, this product will conform to Redtronic specifications for this product (which are available from Redtronic upon request). This product benefits from a 3-year warranty from the date of purchase. Warranty disclaimer: shrouds / mounting pods and L-bracket are not covered under warranty.

## Cleaning and Maintenance

Please refer to our "How to care for your Redtronic Polycarbonate Products" and our "shrouds and mounting pods" document.