

## Specifications

Voltage:	11 ~ 14 Volts DC <sup>(1)</sup>
Current:	0.7 ~ 1.4 Amps <sup>(2)</sup>
Operating Temp. Range:	-20 ~ +50°C (Internal Ambient) <sup>(3)</sup>
Light Source:	Generation 1 High Power LED
Number of Sources:	43 each side (86 total)
Design Standard:	European CE
Dimensions (mm):	325 (L) x 105 (H) x 35 (D)
Mounting:	2 x Velcro Straps <sup>(4)</sup>
Power Cable length:	3.3 metres (Coiled Cord)
Power Plug Type:	Cigarette Lighter (Fused) <sup>(5)</sup>
Power-On Memory:	No
Flash Patterns:	16 (4 x CCR Title 13)
Flash Pattern Memory:	Yes (Last Selected)

### Note:

This device is designed for internal use only and should not be exposed to excessive moisture or wet weather conditions.

There are no user serviceable parts contained in this device.

Specifications are subject to change without notice.

- 1) Do not exceed the maximum specified voltage and do not reverse polarity. Either situation may cause damage to this device.
- 2) Actual current drawn is flash pattern dependent.
- 3) Excess heat directly affects both short-term (reversible) and long-term performance. Degradation of luminosity (brightness), colour shift, consistency in performance and life span accelerates proportionately with increased operating temperatures. This includes the risk of light source and associated component failure. Respectively, Amber and Red sources are more susceptible followed by Green then White with Blue being the most constant. The estimated useful life of a LED is at approximately 70% of initial lumen output (a measure of brightness).  
  
Often quoted and overemphasised claims of 100,000 hour operation are based on a White LED's typical Junction Temperature, maintained with engineered heat mitigation mechanisms, at approximately room temperature or below and with power pulses measured in the order of 15-20 milliseconds. LEDs are consistently more durable than other light sources but they are not indestructible. They are usually very reliable and can last quite a few thousand hours: realistically, 10-15 thousand hours for White LEDs subject to other environmental factors.  
  
(Information derived from the US Department of Energy and is courtesy of the Lighting Council of Australia's LED Fact Sheet #6 - Oct 2008).
- 4) Designed to fit vehicles with sun visors having their anchoring posts at least 26cm apart. Do not over-tightening Velcro straps. A firm, snug fit is all that is required.
- 5) A three (3) ampere "quick-blow" glass fuse is located in the tip of cigarette lighter plug.

## Limited Warranty

This product has a one (1) year limited warranty commencing from the original date of sale. The limits of the warranty are for a device that has ceased to operate effectively because of a faulty component or components, or faulty workmanship.

**The warranty does not cover** any failure or fault caused by misuse; abuse; mistreatment including being dropped; unreasonable wear and tear; excess or abnormal vibration, such as consistent rough road or off-road usage; operation in excessive heat, exposure to excessive moisture and wet weather elements or the effects of lightning strikes in close proximity; any interference, tampering, or alteration; any third party repairs; or faults or failures occasioned by any other cause, or for any other reason outside the limits of this warranty.

Removing or tampering with any product labels, serial numbers, or warning labels will automatically void any and all warranties including any implied warranties.

Where Code2 Australia Pty. Ltd. accepts a warranty claim, it reserves the right to determine any course(s) of action regarding any repair(s), replacement or refund. Delivery and/or return shipping costs are neither recoverable nor refundable. Proof of purchase will be required.

If you do not wish to accept these warranty conditions, return the unused product, in its original packaging (in good condition), to the place of purchase within fourteen (14) days for a refund. Any delivery and/or return shipping costs are not refundable.

This product was specially modified for,  
and imported by:



Code2 Australia Pty Ltd.  
ABN: 15 140 570 403

[www.code2.com.au](http://www.code2.com.au)

PO Box 4088  
Kogarah Bay  
New South Wales 2217  
Australia

Telephone: 0406 726 332  
Email: [sales@code2.com.au](mailto:sales@code2.com.au)

Date of Purchase:	
Place of Purchase	
Model-Serial No:	

Made in China

Errors & Omissions Excepted



## Sun Visor LED Light

### Model: F112A



## Product Guide

Product Version 1.0  
Product Guide Revision 1.2  
(Dec 2009)

The model named above is herein referred to as "this device" or "the device"

## Dissemination of Product and Safety Information

It is the buyer/owner's responsibility to communicate all the information contained in this Product Guide to any end-users. In particular, the communication is to include details regarding safety information, legal usage, installation, critical operational specifications, operating instructions and warranty limitations.

### Important Safety Information

#### Airbag (SRS) Equipment and General Device Installation Warnings

Do not install, mount or place this device, its fittings or cables within a vehicle's air bag {SRS} deployment zone(s) or where they might interfere with the SRS's sensor(s). In a mishap, this device, its fittings or cables could become projectiles. They might damage or impair the air bag(s), or otherwise interfere with the SRS reducing its effectiveness. These situations could increase the risk of serious personal injury or death. Refer to the vehicle's owner manual or directly with the vehicle's manufacturer to determine its SRS deployment zones. Ensure this and any other supplementary devices are correctly fitted and securely fastened. Always seek expert advice and assistance on placement and installation.

#### Personal Safety Warning – Permanent Eye Damage

This device is fitted with high-powered light sources. Avoid permanent eye damage. Do not look directly at the device's light sources at close range or for continuous periods.

#### Driver and Passenger (Observer) Safety Warning – Vision Impairment

This device is designed to be in close proximity to the windscreen whilst remaining perpendicular for optimal forward lighting effect. There could be a gap between the device and the windscreen resulting in reflection or flashback. The sun visor down position will impair vision for either the driver or the passenger (observer). Use extra caution and vigilance, and reduce speed.

#### Vehicle Internal Temperature Advisory

Objects, particularly those with metallic parts, left in a vehicle on a hot day can become quite hot to touch. Take due care when grasping or handling such items.

### Legal Usage

Installation, mounting, display and/or operation of this device in, or on a vehicle may be subject to particular legislation and regulatory requirements in Federal, State, or Territorial jurisdictions. It is the end-user's responsibility to ensure they comply with any law, regulation and by-law concerning the operation, display, mounting and/or installation of this device either singularly or in conjunction with any other similar or associated warning apparatus.

## Installation

*If you have not already done so, read "Important Safety Information" and "Specifications".*

The sun visor "Down" position will impair vision. It is strongly recommended that this device only be fitted to the passenger (observer) side.

The vehicle's sun visor itself must be in good condition and be able to remain in the "Up" position when taking into account the added weight of this device.

Undo the Velcro straps. With the sun visor in the "Up" position, place the device flat against it with the top of the device (power cable side) pointing towards the front of the vehicle.

Adjust the device's position and lateral angle so it is on a level plane relative to the vehicle. Ensure the device will not strike any object or the window's edge when the sun visor is moved to the "Down" position. At this point, you may need to push the Velcro strap's buckles through the gap between the top of the sun visor and the roof lining. Holding the device against the sun visor, move the sun visor to the "Down" position. Feed the lower Velcro straps through the buckles and tack-down temporarily to allow for minor adjustments, if necessary. Be mindful of the headroom requirements of a tall passenger (observer). When satisfied with the final positioning, tighten the straps to a firm, snug fit. Do not over-tighten or use unnecessary force on the straps or buckles as they may fail.

Some Sun Visors have a soft-cushioned finish that will scrunch-up or distort. This consequence is un-avoidable with any strap-mounted sun visor product.

String the power cable away from any air bag (SRS) deployment zones. Insert the cigarette lighter plug into the vehicle's cigarette lighter socket. Excess cable may be gently tucked behind the back of the device or back in the straps. Do not use force to tuck in the cable: re-adjust the strap, if necessary.

It may be necessary to adjust the position of a buckle for a better fit. The procedure is not difficult but it does require some care. Only use the correct size and type of screwdriver. Do not use an electric or a torque powered screwdriver. Never pull the LED array completely out (wires are attached) nor should you pull the strap forcefully while there is still tension from the LED array holding a strap in place.

Determine how much adjustment is required and in which direction the strap needs to be moved. Unscrew and remove the four (4) screws securing the outer lens and LED array and put them somewhere safe. Carefully, by tilting from the outside edge of the device, lift the outer lens and LED array clear of the strap but only as far as is necessary to allow the strap to move fairly freely. Once the strap is adjusted and the desired buckle position is obtained, carefully replace the LED array and the outer lens ensuring any wires that were dislodged are nudged back in their original position. Slowly refasten the four (4) securing screws. Do not over-tighten.

At your expense, you may wish to consider installing an additional cigarette lighter socket or independent power outlet connected directly to the vehicle's power circuit. This will allow the device to operate when the vehicle's ignition is switched off and with the key removed.

Some considerations for this are:

- An independent power outlet positioned near the windscreen's corner at the top or bottom of the front door pillar, or in the space between the dash and the windscreen but away from any airbags or SRS sensors
- Ensure correct polarity to connections. Caution not to reverse polarity. This device will not operate when polarity is reversed and may be harmed by doing so
- Use of a driver accessible isolation or power switch
- Adding an in-line fuse rated the same as the existing fuse
- Retaining the original cigarette lighter plug for mobility to another vehicle (must be able to be readily reconnected to the original cable).

**Only a reputable and licensed automotive electrician should be contracted for this type of installation. Show this product guide to the technician.**

**Code2 Australia Pty. Ltd., its directors, staff or agents are not liable for any personal or property damage(s) caused by any process or procedure employed or used during installation, removal or reinstallation of this device including any damage caused to the device.**

## Operating Instructions

*If you have not already done so, read "Important Safety Information" and "Specifications".*

Ensure power is available. Activate or deactivate the device by gently pressing the "On/Off" button on the front panel once. If power supply is disconnected for any reason (ignition or isolation switch is turned off, or device unplugged), the device will need to be reactivated each time using the "On/Off" button.

To select a flash pattern, gently press the "Mode" button on the front panel: one press for each incremental change. Alternately, press one of the small unmarked flash selection buttons on either side of the device (one-side increments/opposite side decrements). Again, a gentle press is all that is required.

The front panel numeric display will change to indicate a particular flash pattern number.

For optimal visibility, position the device perpendicular to the plane of the vehicle and facing as straight forward as possible.

Subject to simultaneous use with other equipment and the condition of the vehicle's battery, this device should not discharge the battery even after several hours of operation. However, starting the engine to recharge the battery periodically is strongly advised. As a precaution against mishap, unattended and prolonged use of any supplementary electrical device is discouraged.