



## RedVision®

### Benefits

- Combines power protection, distribution, and control in one unit
- Easy to understand simple system layout
- Decreased installation time and complexity

### Features

- Accepts inputs for monitoring water levels and temperatures
- Capable of switching devices like lights, TVs and water pumps on/off
- Bluetooth connectivity to BYOD iOS and Android to the upgradeable and exclusive REDARC app called RedVision



### Get the RedVision app

Monitor and control loads from a mobile phone using the handy RedVision app, which is compatible with most phones and devices running iOS 11.1, Android 7.0 and Bluetooth 4.0 or later.

Search RedVision in the App Store to download.



**RedVision® by REDARC is a Total Vehicle Management System which allows the control and monitoring of multiple on-board devices all in the one place.**

RedVision allows the control of multiple on-board devices, such as turning lights, inverter, water pumps and other loads such as televisions, electric steps and fridges on or off. It also provides the user with the ability to monitor water levels, temperatures, energy (battery power) consumption and storage, with the battery information available when used with a REDARC 'Manager' battery management system.

It comes equipped with an in-vehicle mounted display and Bring Your Own Device 'BYOD' Smartphone iOS or Android app that features the control and monitoring of many functions in a 4WD, camper, caravan or motorhome in one place.

RedVision simplifies installation thanks to its simple connections and CAN architecture, which requires less wiring, crimping and fusing of components.

RedVision was recognised as a Good Design Award Winner in 2018 by Good Design Australia in the Product Design Sport and Lifestyle Category.



### Why RedVision?

#### Save time

No more crimping or soldering at fuse boxes and relays. RedVision allows simple connection of wire and everything into the distribution box terminals.

This means labour time and the number of components, tools and material required will be significantly reduced.


#### Save weight

Less wiring means less weight and less material cost.

RedVision is a true win-win for both the installer and end-user.

#### Highly customisable

The configuration app enables program functions for a particular build and simply load it over and over again or easily customise functions for a specific requirement.



**TVMS1280**

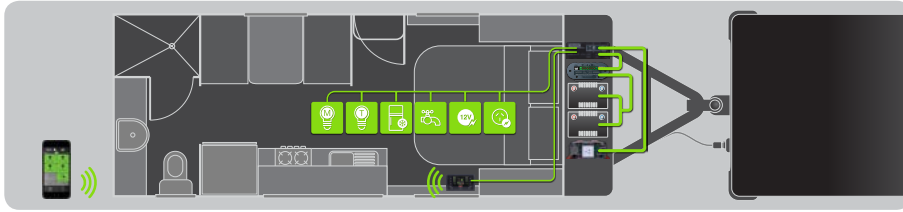
Maximum charger current	40A	
Maximum battery current	80A	
Temperature sensors	Two	
Water level sensors	Six	
Output circuits (max)	5x 10A + 5x 30A	
	Distribution box	Display
Operating temperature	-20°C to + 60°C	-20°C to + 70°C
Storage temperature	-40°C to + 85°C	-40°C to + 85°C
Weight	2.0kg	0.3kg
Dimensions	385x138x58mm	178x108x26mm

Details and specifications are subject to change without notice. Visit [redarc.com.au](http://redarc.com.au) for the latest product range.

## How it works

RedVision uses an R-BUS communication system to link components. R-BUS is a CANBUS network of devices with two ports to create a daisy-chain Network. A terminating resistor is fitted at each end to complete the network.

RedVision communicates with REDARC Inverters and Battery Management systems on this network. It also incorporates three digital inputs and one digital output to interact with other systems.



## DC cable size requirements

### Input Wire Size

REDARC recommends cabling between 8-4 B&S automotive. Refer to the table below for further information.

Connection	Terminal size	Maximum cable size	Cable length <3m	Cable length >3m
Charger output and ground	16mm <sup>2</sup>	4B&S	8B&S	6B&S
Auxiliary battery positive and ground	16mm <sup>2</sup>	4B&S	6B&S	4B&S

### Output Wire Diameter Selection

REDARC recommends suitably rated cable and fuses for the load connected. Refer to the table below for the 10 and 30 amp connector terminal sizes and maximum cable sizes.

Connection	Terminal size	Maximum cable size
10A circuits	2.5mm <sup>2</sup>	6.0mm auto
30A circuits	6.0mm <sup>2</sup>	8B&S

## Tech Tips

### Compatible devices

RedVision is compatible with a range of REDARC products, as listed here:

	Part number	Device Connection Wire
Chargers	BCDC1220	N/A
	BCDC1220-IGN	
	BCDC1225D	
	BCDC1240D BCDC1250D	
Battery Management Systems	BMS1215S3	CAN/R-BUS
	BMS1230S2	
Inverters	R-12-350RS	REMOTE (NOT 'TRC')
	R-12-700RS	
	R-12-1000RS	
	R-12-1500RS	
	R-12-2000RS R-12-3000RS	

### Master switch

RedVision can be programmed to control multiple devices automatically and act as a master switch.

For example, simply hit one button and turn everything off and just leave the fridge running. Or, when the vehicle ignition is turned on, everything turns off but the steps can still be retracted.

### Works best with...

#### The Manager range of Battery Management Systems

RedVision's Distribution Box accepts inputs from REDARC's range of Battery Management Systems (Manager 15/30) and can monitor all battery charging information when paired.



#### DISP4300-RC

The DISP4300-RC is an additional display which may be installed to monitor and control RedVision.



### RedVision standard installation (12 volt)

