



WARNING

Ensure that only suitably trained personnel attempt to install this device or devices. Failure to install the device properly could result in damage to the vehicle, injury or even death.



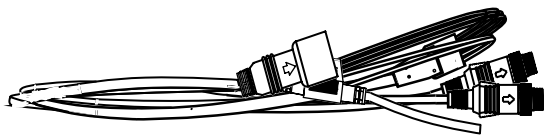
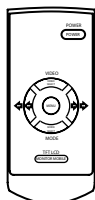
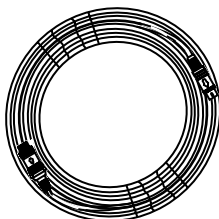
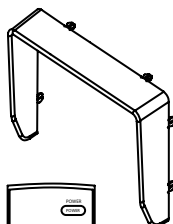
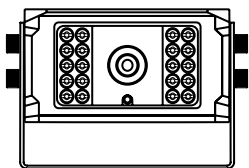
Do not install and/or operate this safety product unless you have read and understand the safety information contained in this guide.

1. Where applicable, proper installation combined with operator training in the use, care and maintenance of reversing safety devices are essential to ensure the safety of personnel and the public.
2. Some warning devices can require high electrical voltages and/or currents. Use caution when working with live electrical connections.
3. This product must be properly earthed via a reliable connection. A poor earth connection and/or shorting of connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fires.
4. Proper placement of the device(s) with the correct installation with maximise the performance of the device. Ensure that any switching or control units used with the device are placed within easy reach of the operator so that he/she can operate the device without losing eye contact with the road, particularly important during manoeuvres.
5. It remains the responsibility of the driver to ensure that all features of this product work correctly. In use, the device should be free of obstructions from vehicle components, for example, the tailgate, people, vehicles or other obstructions.
6. Where applicable, the use of this or any other safety device does not ensure all drivers can or will observe or react to a hazard during manoeuvres. It is your responsibility to be sure you can proceed safely before performing such actions. It is always recommended that you utilise a trained banksman.

Preparing for installation

Carefully remove the camera system and examine the contents for damage that may have occurred during transit. If damage is found or if anything is missing, contact the Dun-Bri Group for advice. Do not use broken or damaged devices or parts. The contents should include;

- 1x 5" TFT LCD monitor
- 1x Monitor sun shield
- 1x Reversing camera
- 1x Mounting bracket
- 1x Remote control unit
- 1x Camera connection cable
- 1x Power connection cable
- 1x Heat shrink tube for camera connection



Installation and mounting

1. Choose a suitable location for the camera that is free of obstructions and at low-risk from accidental damage. Mount the camera using the bracket attached. Using the heat shrink tubing provided, cover the connection between the camera and the cable.
2. Route the camera connection cable from the camera to the location where you will be installing the monitor.



CAUTION: AIR BAGS

Many vehicles are now fitted with side and curtain air bag systems in addition to those traditionally fitted within the front of the vehicle. Ensure that you do not drill into the cables or sensors and accidentally trigger the devices during fitting.



WARNING: ROOF SUPPORTS

There will be a roof support member(s) that spans the distance between the driver's side and the passenger's side of the compartment. Do not drill through or into this member. Ensure that you adjust the cable route accordingly.

3. Mount the camera monitor, connect the camera cable and attach the sun shield.
4. Route and install the power cable harness to a suitable connection. The harness will be fitted with a 3 Amp mini blade fuse. Ensure all connections are secure. Refer to Fig 1. for further cable information and colour coding.
5. Check all connections and power up the monitor to check correct functionality of the reversing camera.

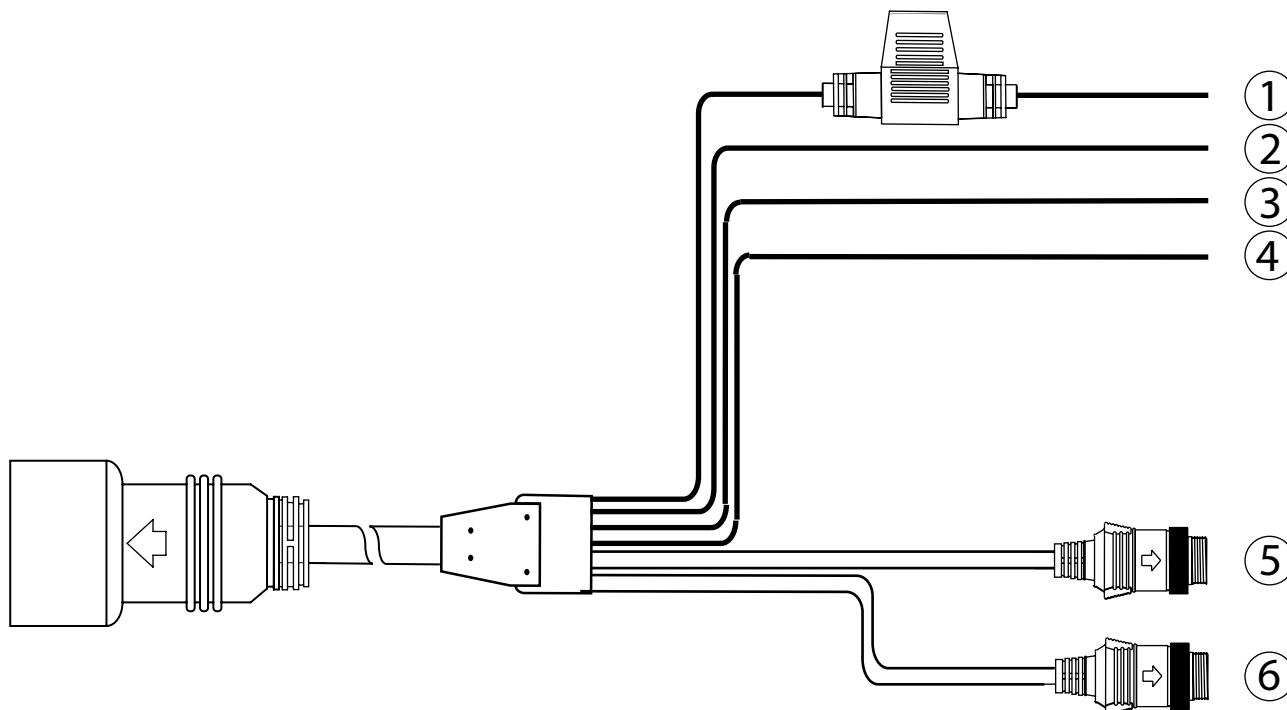
Using the system menu and changing settings

There are a number of options and settings available from the menu, accessible from the monitor. To access them, press on the Menu button. See Fig 2. for location information and symbol key. Further information on the settings available to you, and what your options are are also included in Fig 2.

Further help and assistance

For further help and technical support, please call Dun-Bri Group directly on 01763 274185.

Fig 1.
Power harness connection diagram



Cable identification

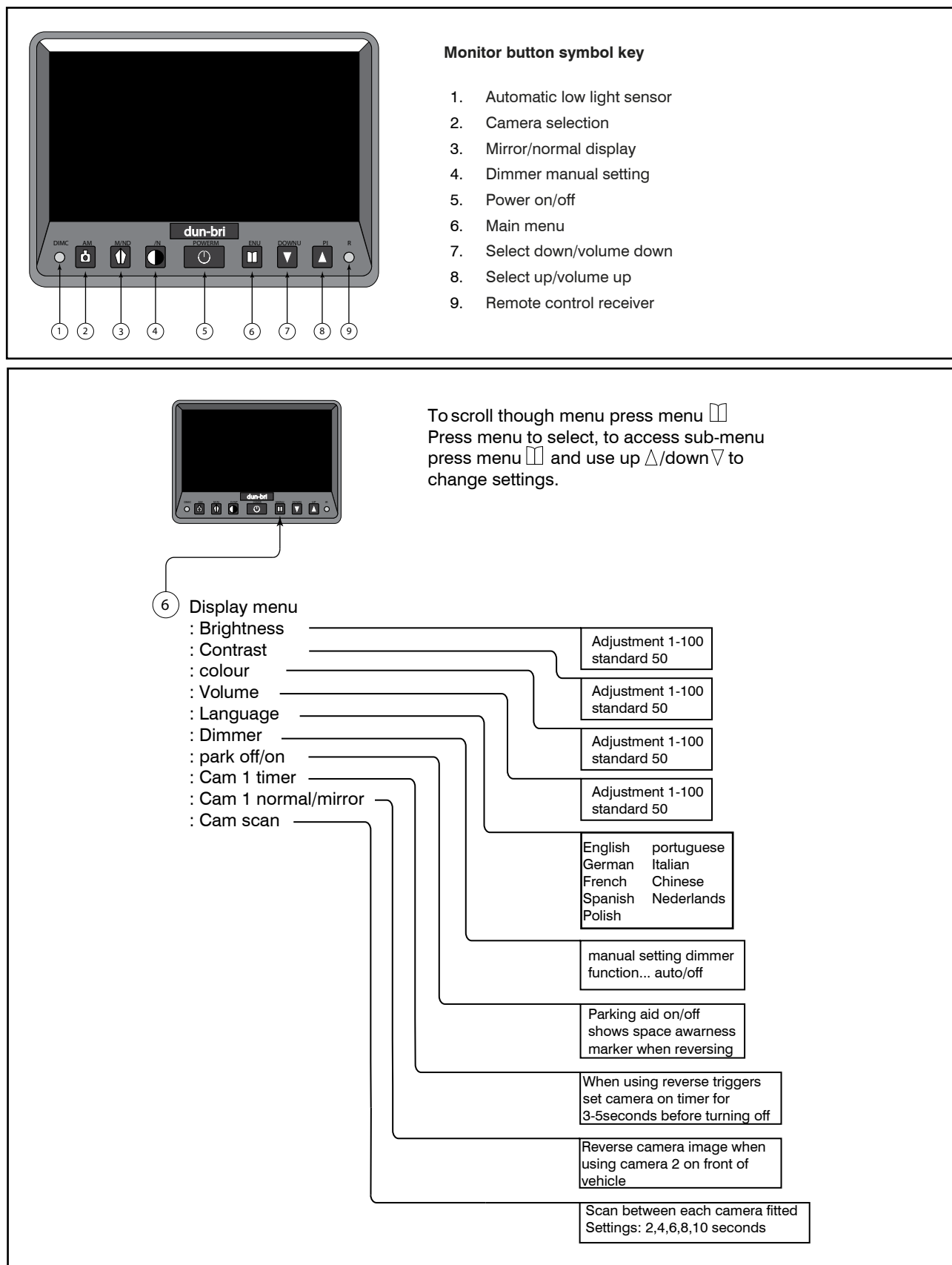
- ① Red: Power (fused @ 3A)
- ② Black: Earth
- ③ White: Trigger AV 1
- ④ Brown: Trigger AV 2
- ⑤ Camera: AV1
- ⑥ Camera: AV2
- ⑦ Monitor

Vehicle connections

- Red: Connect to ignition live feed
- Black: Connect to chassis earth point
- White: Connect to + terminal on input signal
- Brown: Connect to + terminal on input signal
- Camera: Connect to extension lead
- Camera: Connect to extension lead
- Monitor: Connect to feed from monitor

Please note: Camera triggers are positive switching. When fitting camera and monitor make sure to line up the arrows marked on the connectors.

Fig 2.
Monitor key and configuration information



Technical specifications

Monitor specifications

Aspect Ratio: 16:9 image
Resolution: 640x480 dpi
Brightness: 430cd/m2
Power supply: 12-24v DC
Audio: Built in speaker
Operating temp: -20C~70°C.RH95% Max
Storage temp: -30C~+80°C.RH95% MAX

Camera specifications

Image sensor: 1/3" Sony CCD
TV system: NTSC/PAL
IP rating: IP68
Vibration rate: 10G
Night vision: Fitted
Audio function: Fitted
Effective pixels: N:510(H) x 492(H) pixels
P: 500(H) x 582(V) pixels
Horiz. resolution: 700TV line
Video output: 1.0vp-p, 75 Ohms
Minim. illumination: 0.1LUX/F1.2
Built-in lens: F:2.8mm
Power supply: DC12v (+/-10%)
Lens angle (degree): 120
Operating temp: -20C~70°C.RH95% Max
Storage temp: -30C~+80°C.RH95% MAX



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