



## Backguard

Reversing Camera Systems

- ⓕ Systèmes à chambre réversible
- ⓓ Rückfahrkamerasysteme
- Ⓛ Sistemi con camera ad inversione
- ⓔ Sistemas de cámara reversible
- Ⓟ Sistemas de câmara reversível
- ⓃL Achteruitrijcamera's
- ⓓK Bakkamerasystemer
- ⓅL Systemy kamery cofania

# Backguard Reversing Camera Systems



## Introduction

The introduction of Reversing Cameras has had a major impact in the reduction of accidents brought about by reversing.

Whatever the hazard, pedestrians, equipment, buildings or other vehicles. Ring Backguard Reversing Cameras can put the driver more in control.


























With the reduction in repair costs and the subsequent vehicle downtime, Ring Backguard Reversing Cameras are a sound investment whatever the size of the business.

Increasing awareness of the dangers of reversing and the obligations imposed by Health and Safety legislation has led to more vehicle owners, fleets and operating sites demanding the fitment of reversing camera systems. The ability to add additional cameras and record the movement of vehicles and their occupants further adds to vehicle security.

Reversing Cameras should be seen as an original equipment necessity rather than an optional accessory.

Ring Backguard Reversing Cameras offer solutions for all types of vehicles and with it's range, a product to meet all budgets.

## Key to symbols

	<b>TFT Screen</b> 5.6" Diagonal Screen Size		<b>Integral microphone</b>
	<b>TFT Screen</b> 7.0" Diagonal Screen Size		<b>LED Infra-red night vision</b>
	<b>TFT Screen</b> 3.5" Diagonal Screen Size		<b>Dual voltage</b>
	<b>Audio output</b>		<b>E approved EMC</b>
	<b>Colour</b>		<b>Fitting kit included</b>
	<b>Waterproof IP68</b>		<b>Fitting instructions included</b>
	<b>Camera input</b>		<b>4 pin Din connector</b>
	<b>Audio/Video in</b>		<b>Vibration resistance 10g</b>
	<b>Audio/Video out</b>		<b>Shock resistance 50g</b>
	<b>Mirror image switching</b>		<b>Vibration resistance 5g</b>
	<b>Automatic operation when reverse is selected</b>		<b>Die-cast aluminium housing</b>
	<b>Day/night brightness control</b>		<b>Polycarbonate</b>
	<b>Backlit controls</b>		



## RBG8000 Reversing Camera Kit

- RBGC8** Colour audio camera
- RBGM8** 5.6" TFT monitor
- RBGCB8** Control box
- RBG020** 20m 4 core cable
- RBGM64** Cable adaptor
- RBGM2** Monitor extension cable
- Fitting kit



### Colour Audio Camera

Part Number	RBGC8
Image type	1/4" Colour Sony CCD
Pixels	500(H) x 582(V)
Horizontal resolution	420 TV lines
Infra red distance	6-8m
IR Switch control	<10m lux
LED	18 LEDs
S/N ratio	48db
White balance	Auto
Cable length	800mm
Lens	2.6mm F2.0
Lens view angle	110° diagonal
Operating voltage	12v DC via control box
Operating temperature	-30 to 65°C
Storage temperature	-30 to 60°C
Dimensions	82(L) x 73(W) x 58(D)mm
Weight	380g
Power consumption	1.5w
Vibration resistance	10g
Bracket	Mounting bracket
Housing	Aluminium

INFRA-RED  
x18 LED

COLOUR

IP68

e CE

V 10g

S 50g

AL



### 5.6" TFT-LCD Monitor

Part Number	RBGM8
Display	5.6" TFT-LCD (4:3)
Controls via menu	Colour, Brightness, Mirror image/normal, Input selection, On/off, Volume
Viewing angles	40/45/65/65° (U/D/L/R)
Brightness	cd/m <sup>2</sup> 500
Contrast ratio	300:1
Video system	NTSC/PAL auto detection
Operating voltage	12v DC via Control Box
Operating temperature	-15 to +65°C
Storage temperature	-25 to +85°C
Dimensions	150(L) x 126(W) x 27(D)mm
Weight	510g
Power consumption	5w
Vibration resistance	5g
Bracket	Multi fixing stand bracket

5.6" TFT

AUDIO

COLOUR

x2

OUT

via RBGM8

R Я

12/24v DC

e CE

V 5g

R 4

Light



### Control Box

Part Number:	RBGCB8
Video input	Optional
Video output	DVR
View selection	Mirror/normal
Operating voltage	12-24v DC
Power consumption	9w
Dimensions	157(L) x 76(W) x 34(D)mm

# Backguard Reversing Camera Systems



## RBG3500 Reversing Camera Kit

**RBGC10** Colour camera  
**RBGM35** 3.5" TFT monitor



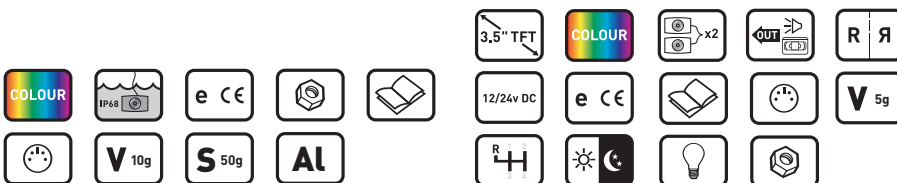
### Colour Camera

Part Number	RBGC10
Image type	1/4" Colour Sony CCD
Pixels	500(H) x 582(V)
Horizontal resolution	420 TV lines
S/N ratio	48db (AGC off)
White balance	Auto
Cable length	600mm
Lens	2.3mm F2.0
Lens view angle	130°
Operating voltage	12v DC
Operating temperature	-30 to 65°C
Storage temperature	-40 to 85°C
Dimensions	30(L) x 28(W) x 34(D)mm
Weight	65g
Power consumption	1w
Vibration resistance	10g
Housing	Aluminium



### 3.5" TFT-LCD Monitor

Part Number	RBGM35
Display	3.5" TFT-LCD (4:3)
Controls	Colour, Brightness, Mirror image/normal, Input selection, On/off, Volume
Viewing angles	15/35/45/45° (U/D/L/R)
Operating voltage	12-24v DC
Brightness	cd/m² 250
Contrast ratio	200:1
Video system	NTSC/PAL auto detection
Operating voltage	12-24v DC
Operating temperature	0 to +60°C
Storage temperature	-25 to +88°C
Dimensions	100(L) x 24(W) x 80(D)mm
Weight	300g
Power consumption	5w
Vibration resistance	5g
Bracket	Multi fixing stand bracket screen mount





**RBGC9**  
Side View Colour Camera

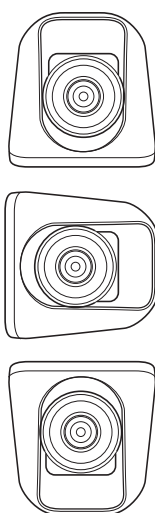


**RBGC11**  
Recessed Colour Camera

**Side View Colour Camera**

Part Number	RBGC9
Image type	1/4" Colour Sony CCD
Pixels	500(H) x 582(V)
Horizontal resolution	420 TV lines
Infra red distance	6-8m
IR Switch control	<10m lux
LED	9 LEDs
S/N ratio	48db
White balance	Auto
Cable length	800mm
Lens	2.6mm F2.0
Lens view angle	110° diagonal
Operating voltage	12v DC
Operating temperature	-30 to 65°C
Storage temperature	-40 to 85°C
Dimensions	94(L) x 65(W) x 63(D)mm
Weight	175g
Power consumption	1.5w
Vibration resistance	10g
Bracket	Mounting bracket
Outer Housing	Polycarbonate

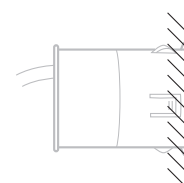
**Mount options**



**Recessed View Colour Camera**

Part Number	RBGC11
Image type	1/4" Colour Sony CCD
Pixels	628(H) x 582(V)
Horizontal resolution	420 TV lines
S/N ratio	48db
White balance	Auto
Cable length	600mm
Lens	2.6mm F2.0
Lens view angle	130° diagonal
Operating voltage	12v DC
Operating temperature	-30 to 65°C
Storage temperature	-40 to 85°C
Dimensions	31(L) x 40/68(H)mm
Weight	60g
Power consumption	1w
Vibration resistance	10g
Bracket	Mounting bracket
Housing	Aluminium
Retaining Bezel	Polycarbonate

**Recessed fitting**



# Backguard Reversing Camera Systems



**RBGM7**  
7" TFT-LCD 16:9 Monitor  
Requires RBGCB8

**Colour Audio Camera**

Part Number	RBGM7
Display	7" TFT-LCD 16:9
Controls via menu	Colour, Brightness, Mirror image/normal Input selection, On/off, Volume,
Viewing angle	40/65/65/65 (U/D/L/R)
Requires control box	RBGCB8 or RBGCB4
Brightness	500 CD/m <sup>2</sup>
Contrast ratio	300:1
Video system NTSC/PAL	Auto selection
Operating voltage	12v DC via Control Box
Operating temperature	-15 to +65°C
Storage temperature	-25 to +85°C
Dimensions	195(L) x 128(W) x 27(D) mm
Weight	530g
Power consumption	5w
Vibration resistance	5g
Bracket	Multi fixing stand bracket



**RBGC15**  
Colour Camera with automatic  
motorised lens cover

**Colour Camera**

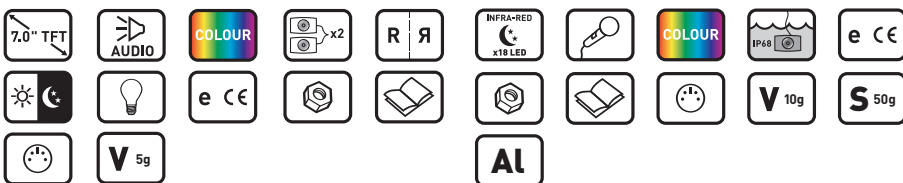
Part Number	RBGC15
Image type	1/4" Colour Sony CCD
Pixels	500(H) x 582(V)
Horizontal resolution	420 TV lines
Infra red distance	6-8m
IR Switch control	<10m lux
LED	18 LEDs
S/N ratio	48db
White balance	Auto
Cable length	800mm
Lens	2.6mm F2.0
Lens view angle	110° diagonal
Operating voltage	12v DC via control box
Operating temperature	-10 to 50°C
Storage temperature	-30 to 60°C
Dimensions	82(L) x 73(W) x 58(D) mm
Weight	450g
Power consumption	1.5w
Bracket	Mounting bracket
Vibration resistance	10g
Housing	Aluminium
Auto stop lens cover	Prevents damage should the cover be prevented from closing



**RBGCB4**  
4 Camera Input Control Box  
and Keyboard

**Control Box and Keyboard**

Part Number	RBGCB4
4 camera input	
Controls:	Auto trigger, Auto reverse camera selection, Video output, Mirror image/normal
Operating voltage	12/24v DC
Power consumption	9 - 18w
Dimension	157(L) x 76(W) x 34(D) mm
Weight	355g



• Special order lines • Special order lines • Special order lines

**RBGM46**  
**RBGM64**



**RBGM2**



**RBG005**  
**RBG010**  
**RBG020**



**RBGPW3**



**RBGM46**

4 pin Male - 6 pin Female  
Din adaptor cable

**RBGM64**

6 pin Male - 4 pin Female  
Din adaptor cable

**RBGM2**

Monitor extension cable

**RBG005**

5 metre 4 pin extension cable

**RBG010**

10 metre 4 pin extension cable

**RBG020**

20 metre 4 pin extension cable

**RBGPW3**

Power cable for RBGCB8

**RBGSC8**



**RBGSC8**

Trailer Connection system

**Kit includes**

Trailer socket + 4 pin female lead

Trailer socket + 4 pin male lead

RBGM46 x1

RBGM64 x1

Flexible coiled cable

Water proofing tape

**RBGSC9**



**RBGSC9**

2nd Trailer system

**Kit includes**

Trailer socket + 4 pin female lead

RBGM46 x1

RBG020 20 metre extension cable

**RBGM3**




**RBGM3**


Flexible monitor mounting

Windscreen mount for TFT monitors


## Ring Automotive Limited

Volvox House, Gelderd Road, Leeds, England LS12 6NA

 +44 (0)113 213 7389

 +44 (0)113 231 0266

 autosales@ringautomotive.co.uk

 www.ringautomotive.co.uk

In line with our policy of continuous product development, Ring Automotive Limited, a division of VOLVOX Group Limited, reserve the right to alter specification without notice. Whilst every care has been taken in compiling the information in this catalogue, Ring Automotive Limited cannot accept legal liability for any errors or omissions. Manufacturers' names and part numbers are for reference only. Illustrations are intended only to be representative of the parts offered, sizes quoted are nominal. © Copyright 2006 Ring Automotive Limited.

**RBG/09/06/5k**

