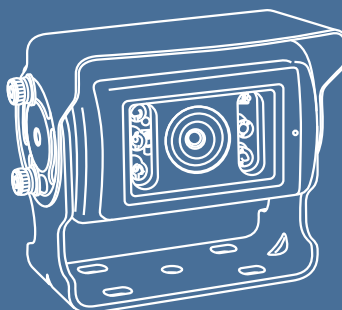
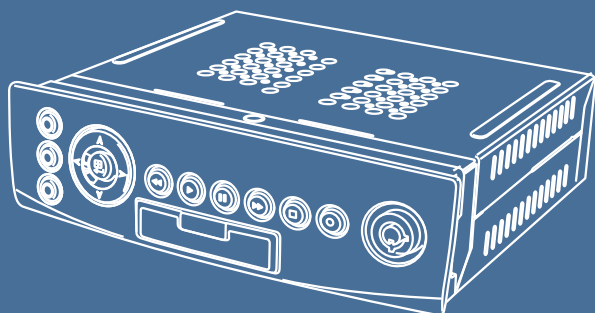
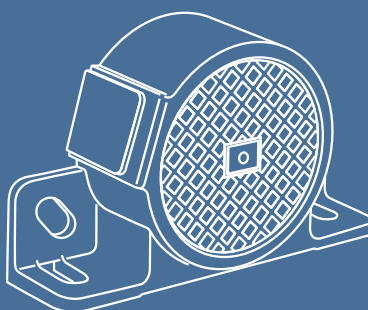
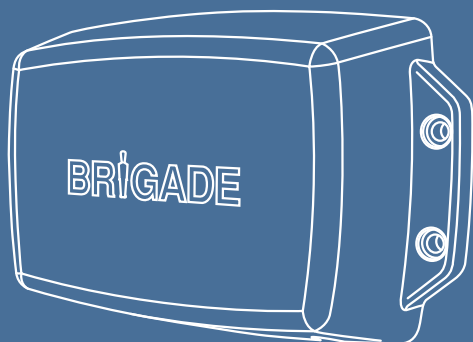
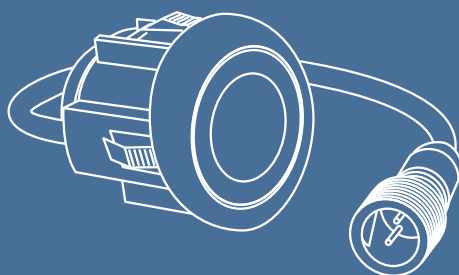
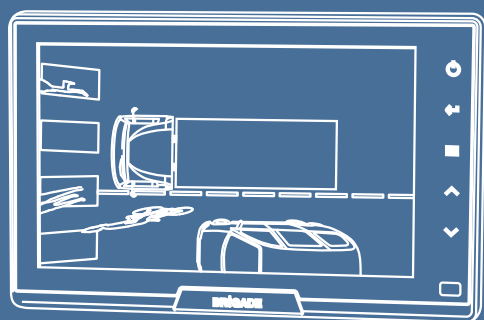


Vehicle Safety Solutions

Product Catalog 2016



Brigade

Brigade has been pioneering the cause of reversing safety since 1976, when we introduced the very first back-up alarm to Europe. We continue to lead the way in vehicle and plant safety, having extended our range to include all-round visibility, pioneering many products and developing and patenting new technology.

We rigorously test all products beyond industry standards to achieve quality and reliability. In fact we are so confident in our products that we can provide two year, three year and in the case of some products, lifetime warranties.

The Brigade group is based in the UK, has subsidiary companies in the USA, Canada, Germany, Italy and The Netherlands, joint ventures in France and South Africa and is in partnership with over 50 specialist distributors worldwide, with current exports across all five continents.

Our wealth of experience has earned us a reputation for expertise. We act as an industry voice and are often called upon in an advisory capacity to sit on both legislative and international committees.

We understand your industry and the problems you face.



Tel: +1 (888) 452-4053

E-mail: sales@msfoster.com

www.msfoster.com

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Driving Global Safety



Vehicle Safety Solutions

Brigade understands the many and complex safety issues of mobile applications, resulting in a flexible product range offering safety solutions for vehicles and plant. Whether you are operating on- or off-road, vehicle or machine, large or small, we can help.

We strongly believe in a complementary range of passive and active systems to warn and assist the driver whilst protecting workers, pedestrians and cyclists. Not only this, our systems help increase efficiency and decrease vehicle downtime, saving operators thousands of dollars.

In terms of saving lives we believe the status quo is never enough. We are constantly researching the latest and developing technologies to see how they can be used to improve safety for different mobile applications.

Many of our product ranges were initially introduced to the UK, Europe and even the world by Brigade. Several of our products are patented and unique to us.

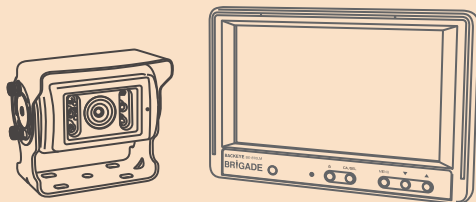
Accept no imitations.



Camera Monitor Systems

Backeye®

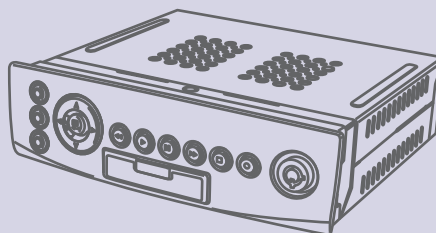
Camera monitor systems can help eliminate driver blind spots to prevent costly damage and ultimately save lives. Brigade's systems meet a host of on- and off- road health and safety and legislative requirements.



See pages 6-30

Mobile Digital Recording

Robust and reliable digital recording systems provide high quality video and data records. Ideally suited to large road going vehicles in the freight, waste, bus and coach industries. Add to your camera monitor system for a range of benefits.

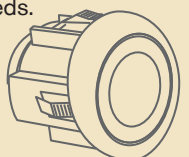


See pages 31-33

Ultrasonic Obstacle Detection

Frontscan® Backscan®
Sidescan® Cornerscan™
Stepscan™

Sensor systems inform driver of distance between vehicle and any obstacles, whether moving or stationary. Perfect for road going commercial vehicles regularly operating in confined spaces or manoeuvring at low speeds.



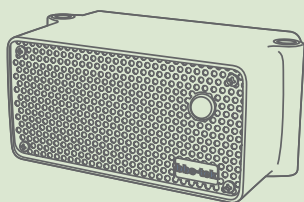
See pages 34-37



White Sound Warning Alarms

bbs-tek®

Vital audible safety devices to warn that a vehicle is manoeuvring. Unique to Brigade, White Sound® alarms (bbs-tek®) are the safest in the world and do not cause a noise nuisance. Endorsed by the Noise Abatement Society and PIEK and have been awarded the Quiet Mark. Options include smart alarms, which adjust appropriately to the ambient noise level.

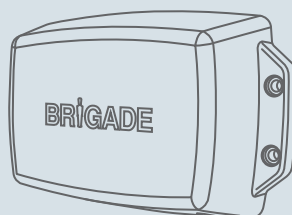


See pages 38-44

Radar Obstacle Detection

Backsense™

Robust long range sensor systems designed for harsh conditions. Inform driver of distance between vehicle and any obstacles, whether moving or stationary. Perfect for all machines working in construction, mobile plant and refuse.

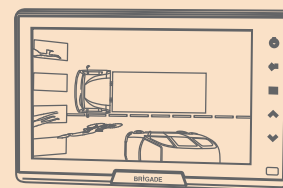


See pages 45-47

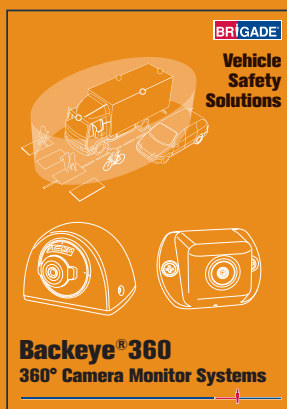
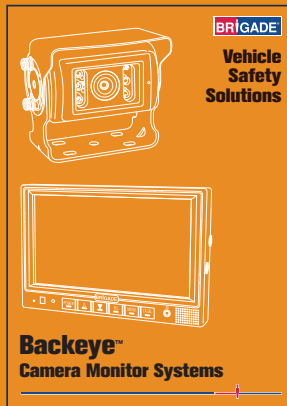
Camera Monitor Systems

Backeye® 360

Intelligent camera monitor system that provides the driver with a bird's-eye view of the vehicle. Four camera images are processed into a single 360°, real-time picture on the driver's monitor.



See pages 8-11



Available Brochures

Backeye®

All-round visibility for commercial vehicles and mobile plant.

Which range is for you?

Elite

Top of the range systems for comprehensive blind spot coverage. Suitable for large road-going vehicles, specialist applications, heavy duty off-road machines or where the cab is exposed to the elements.



Select

Mid-range systems suitable for medium to large road-going vehicles.



Essential

Entry level reversing solution ideally suited to light commercial vehicles and vans.



camera monitor systems

Choosing your camera monitor system

Select from our range of popular complete standard systems featured on pages 21-25 or build your own system referring to the camera monitor compatibility chart below, adding cables, adapters and ancillaries to connect and upgrade your system.

Camera/monitor compatibility for building your own system

		MONITORS				
		ELITE		SELECT		
		BE-970WFM BE-970WM BE-865DDM	BE-870LM BE-856GM	VBV-7104FM VBV-770FM VBV-770M VBV-750M	VBV-770M-S VBV-750M-S	
✓ = Compatible AC-0xx = Compatible with adapter(s) shown ✕ = Not compatible						
CAMERAS	ELITE	BE-811C shutter camera	✓	SC-1000-ECU (Shutter module)	AC-007 + SC-1000-ECU	✕
		All other Elite range cameras	✓	✓	AC-007	AC-007
	SELECT	VBV-711C shutter camera	AC-035 + AC-006	AC-035 + AC-006	AC-035	✓
		All other Select range cameras	AC-006	AC-006	✓	✓

SELECT 360° CAMERA SYSTEMS

BN360-000 - Backeye 360 Select system

4483



- IPX7 cameras
- 12-24Vdc
- Size (WxHxD) ECU
6.6 x 5 x 1.4"
- Size (WxHxD) Camera
1.4 x 2.4 x 1.8"
- 2 year warranty



Contents

- 1 x BN360-ECU-10
- 4 x BN360-100C cameras
- 1 x BN360-VBV-L4015 Video-out cable to connect to SELECT range monitor.

Note: Monitor and camera cables not included

Features

- 360° single image
- Triggered views (rear, left and right)
- 4 x ultra-wide viewing angle cameras (HxV) 185° x 142°
- 1/3.6" CMOS sensor
- TV system: NTSC

Power

- Power consumption: 15 Watts
- Current: 1.23 Amps

Durability & Standards

- Mechanical vibration: 1G
- Operating temperature: -22 to +167°F
- CE marked
- EMC approved: E
- HALT tested

Note: A calibration kit is required for installation.

SELECT 360° CABLES AND ADAPTERS

BN360-L120	66' camera cable	4493
BN360-L115	15' camera cable	4495
BN360-L110	10' camera cable	4496
BN360-L105	16' camera cable	4498
BN360-L1025	8' camera cable	4499
AC-304	Splitter cable for MDR (1 required per camera)	4738



OPTIONAL MOUNTING BRACKETS

BN360-100C-BKT01	Adaptable mounting bracket - can be shaped to allow installation on non-vertical surfaces	4649
BN360-100C-BKT02	Mounting bracket to adjust camera angle	4714
BE360-CD	Deflector to shield camera from knocks (To be used with BN360-100C-BKT02 Mounting bracket)	4701
BN360-100C-BKT03	Deflector to shield camera from knocks	4743



REQUIRED ADDITION FOR ARTICULATED VEHICLES

BN360-Enclosure	IP66 Enclosure kit to enable ECU to be installed on outside of vehicle	4723
-----------------	--	------

Note: Coiled cable kit or wireless connector also required



SELECT RANGE 360° CAMERA MONITOR SYSTEMS

Complete kits including monitor, Select 360 camera system, cables and adapters



SE-7104F-100 - 360 camera monitor system for large rigid vehicles

4618

- 1 x VBV-7104FM - 10.4" monitor
- 1 x BN360-000 360 system
- 1 x BN360-L110 - 33' camera cable
- 2 x BN360-L115 - 49' camera cables
- 1 x BN360-L120 - 66' camera cable
- 1 x BN360-VBV-L4015 - video out cable

See individual products for detailed specifications

- 2 year system warranty



SE-770-100 - 360 camera monitor system for large rigid vehicles

4804

- 1 x VBV-770M 7" monitor
- 1 x BN360-000 360 system
- 1 x BN360-L110 - 33' camera cable
- 2 x BN360-L115 - 49' camera cables
- 1 x BN360-L120 - 66' camera cable
- 1 x BN360-VBV-L4015 - video out cable

See individual products for detailed specifications

- 2 year system warranty

360° camera systems

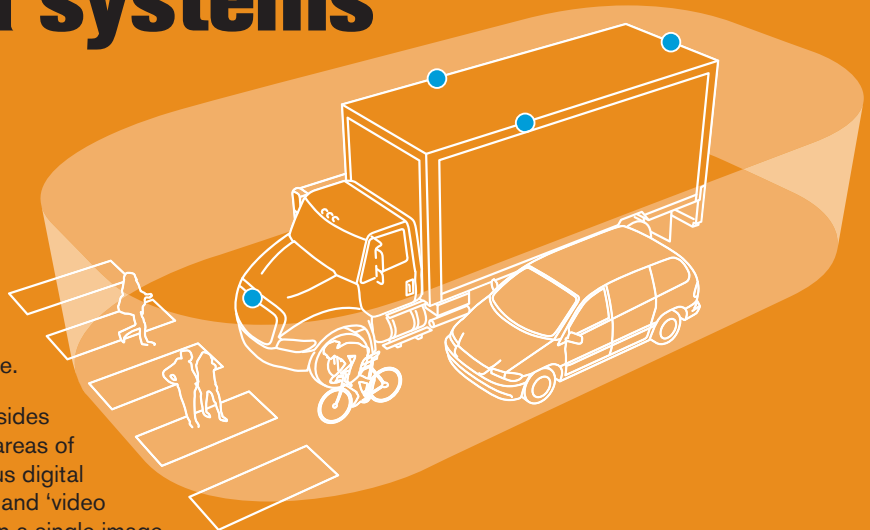
4 Cameras

1 Image

0 Blind spots

Backeye®360 is an intelligent camera monitor system designed to assist low-speed manoeuvrability by providing the driver with a complete surround view of the vehicle in real time.

Ultrawide-angle cameras mounted on the front, sides and rear of the vehicle capture the surrounding areas of the vehicle including all blind spots. Simultaneous digital images from these cameras are then processed and 'video stitched' resulting in a 360° birds-eye view within a single image. The software also instantly eliminates any fisheye camera distortion delivering a clear, real-time picture on the driver's monitor.



ELITE 360° CAMERA SYSTEMS

ASL360-SV - Backeye 360 Elite

4328



- IP68 cameras
- 12-24Vdc
- Size (WxHxD) ECU
8.8 x 1.4 x 4.7"
- Size (WxHxD) Camera
2.7 x 1.9 x 2.4"
- 2 year warranty



Contents

- 1 x ASL360-ECU
- 4 x ASL360-CM2 cameras

Note: Monitor, camera cables and adapters NOT included

Features

- 360° single image
- Flexible blend widths and positioning
- Up to 30 frames per second
- Self-monitoring to eliminate frozen images
- Triggered views
- 4 x ultra-wide viewing angle cameras (HxV) 185 x 180°
- 1/4" CMOS sensor
- TV system: NTSC

Power

- Power consumption:
Camera: 0.5 Watts
ECU: 5.0 Watts
- Current:
Camera: 0.04 Amps
ECU: 0.4 Amps

Durability & Standards

- Operating temperature:
-40 to +185°F
- CE marked
- EMC approved: E

Note: A calibration kit is required for installation. Available to Brigade trained fitters only

CABLES AND ADAPTERS

ASL360-L120	66' camera cable	4333
ASL360-L115	49' camera cable	4334
ASL360-L110	33' camera cable	4335
ASL360-L1025	8' camera cable	4336
AC-054	8' adapter cable to connect ECU to monitor via AC-016 / AC-024 (BNC B to Phono A)	4340
AC-016	Adapter cable to connect AV/Phono to Elite monitor	2150
AC-024	Adapter cable to connect AV/Phono to Select monitor	3183

OPTIONAL MOUNTING BRACKET

BE360-CD	Deflector to shield camera from knocks	4701
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REQUIRED ADDITION FOR ARTICULATED VEHICLES

BN360-Enclosure	IP66 Enclosure kit to enable ECU to be installed on outside of vehicle	4723
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Note: Coiled cable kit or wireless connector also required



ELITE RANGE 360° CAMERA MONITOR SYSTEMS

Complete kits including monitor, Elite 360 camera system, cables and adapters



SE-970W-000 - 360 camera monitor system for large rigid vehicles

4341

- 1 x BE-970WM - 7" waterproof monitor
- 1 x ASL-360SV 360 system
- 1 x ASL-L110 - 33' camera cable
- 2 x ASL-L115 - 49' camera cables
- 1 x ASL-L120 - 66' camera cable
- 1 x AC-016 - phono adapter cable
- 1 x AC-054 - adapter cable

See individual products for detailed specifications

- 2 year system warranty



SE-870L-000 - 360 camera monitor system for large rigid vehicles

4342

- 1 x BE-870LM - 7" monitor
- 1 x ASL-360SV 360 system
- 1 x ASL-L110 - 33' camera cable
- 2 x ASL-L115 - 49' camera cables
- 1 x ASL-L120 - 66' camera cable
- 1 x AC-016 - phono adapter cable
- 1 x AC-054 - adapter cable

See individual products for detailed specifications

- 2 year system warranty



SE-770-000 - 360 camera monitor system for large rigid vehicles

4803

- 1 x VBV-770M - 7" monitor
- 1 x ASL-360SV 360 system
- 1 x ASL-L110 - 33' camera cable
- 2 x ASL-L115 - 49' camera cables
- 1 x ASL-L120 - 66' camera cable
- 1 x AC-024 - phono adapter cable
- 1 x AC-054 - adapter cable

See individual products for detailed specifications

- 2 year system warranty

360° camera systems



To find out more information and to watch a video on Brigade's Backeye®360, please scan the QR code with your mobile device.

youtube.com/brigademarketing



BEST SELLER**ELITE CAMERA**

Heated camera

BE-801C**BE-801C(40) - Narrow viewing angle: 33 x 25 x 40°****BE-801C(78) - Narrow viewing angle: 64 x 47 x 78°****BE-890C - Waterproof to IP69K, No audio (PAL ONLY)****1905****2085****2084****2871**

- Viewing angle (HxVxD)
101 x 72 x 133°

- IP68

- Size (WxHxD)
3.4 x 3 x 2.8"

- 3 year warranty

**Features**

- 5 Infrared LEDs for ultra-low light performance
- 5m illumination distance
- Heater
- Audio
- Day / Night sensor
- Mirror / Normal view
- 1/3" Sony CCD
- TV System: NTSC
- TV lines: 450

Power

- Power consumption: 4 Watts
- Current: 0.33 Amps

Durability & Standards

- Mechanical vibration: 20G
- Mechanical shock: 50G
- Operating temperature: -22 to +176°F
- CE marked
- EMC approved: E
- HALT tested
- ISO 13766: 2006 (BE-890C only)

ELITE CAMERA**BE-811C - Heated shutter camera****2914**

- Viewing angle (HxVxD)
103 x 71 x 134°

- IP69K

- Size (WxHxD)
4.8 x 3.3 x 3.1"

- 3 year warranty

**Features**

- 6 Infrared LEDs for ultra-low light performance
- 5m illumination distance
- Shutter
- Heater
- Audio
- Day / Night sensor
- Mirror / Normal view
- 1/3" Sony CCD
- TV System: NTSC
- TV Lines: 400

Power

- Power consumption: 5 Watts
- Current: 0.4 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock: 100G
- Operating temperature: -40 to +176°F
- CE marked
- EMC approved: E

SC-1000-ECU - Shutter camera module may be required to connect to Elite monitors (see intro)

3666**ELITE CAMERA****BE-821C - Mini camera (mirror image)****2002**

- Viewing angle (HxVxD)
111 x 87 x 129°

- IP68

- Size (WxHxD)
1.8 x 1.5 x 2"

- 3 year warranty

**Features**

- 1/4" Sony CCD
- TV System: NTSC
- TV Lines: 380

Power

- Power consumption: 1.5 Watts
- Current: 0.1 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock: 100G
- Operating temperature: -4 to +158°F
- CE marked
- EMC approved: E
- HALT tested

Model

Part No:

ELITE CAMERA


DMC-1025 - Digital mini camera (internal use)
1529

- Viewing angle (HxVxD)
73 x 51 x 89°

- IP66

- Size (WxHxD)
1.7 x 1.8 x 1.5"

- 3 year warranty



Features

- Mirror / Normal view
- 1/3" Sony CCD
- TV System: PAL ONLY
- TV Lines: 520

Power

- Power consumption: 0.84 Watt
- Current: 0.07Amps

Durability & Standards

- Mechanical vibration: 10G
- Operating temperature: -4 to +158°F
- CE marked

ELITE CAMERA


MD-51 - Mini dome camera (internal use)
4049

- Viewing angle (HxVxD)
73 x 51 x 89°

- IP66

- Size (Diameter x H)
3 x 1"

- 3 year warranty



Features

- Mirror / Normal view
- 1/3" Sony CCD
- TV System: NTSC
- TV Lines: 520

Power

- Power consumption: 0.84W
- Current: 0.07 Amps

Durability & Standards

- Mechanical vibration: 10G
- Operating temperature: -4 to +158°F
- CE marked



OPTIONAL EXTRAS

MD-50SM - Surface mounting adapter (1.2" deep)
2582
MD-50AM - Angled surface mounting adapter (adds 15°)
2583

BEST SELLER**SELECT CAMERA****VBV-701C****VBV-791C - Waterproof to IP69K, no audio****2575****2842**

- **Viewing angle (HxVxD)**
92 x 70 x 115°

- **IP67**

- **Size (WxHxD)**
3.1 x 2.8 x 2.7"

- **2 year warranty**

**Features**

- 18 Infrared LEDs for ultra-low light performance
- 50' illumination distance
- Audio
- Day / Night sensor
- Mirror view
- 1/3" Sharp CCD
- TV System: NTSC
- TV Lines: 420

Power

- Power consumption: 2.4 Watts
- Current: 0.2 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock: 100G
- Operating temperature: -4 to +158°F
- CE marked
- EMC approved: E
- HALT tested

SELECT CAMERA**VBV-711C -****Heated shutter camera****2841**

For connection to **VBV-770M-S** and **VBV-750M-S** 5-pin Select monitors
Requires 5-pin 33' (**VBV-L510**) or 66' (**VBV-L520**) camera cable

VBV-711C(AC) - Heated shutter camera**3708**

Includes 5-pin to 4-pin adapter (**AC-035**) for connection to other Select monitors

- **Viewing angle (HxVxD)**
90 x 70 x 110°

- **IP69K**

- **Size (WxHxD)**
4.8 x 3.2 x 3.2"

- **2 year warranty**

**Features**

- 12 Infrared LEDs for ultra-low light performance
- 33' illumination distance
- Shutter
- Heater
- Audio
- Day / Night sensor
- Mirror / Normal view
- 1/3" Sharp CCD
- TV System: NTSC
- TV Lines: 420

Power

- Power consumption: 4.6 Watts
- Current: 0.38 Amps

Durability & Standards

- Mechanical vibration: 2.8G
- Operating temperature: -4 to +158°F
- CE Marked
- EMC approved: E

SELECT CAMERA**VBV-481C - Cylinder camera****2843**

- **Viewing angle (HxVxD)**
88 x 64 x 112°

- **IP67**

- **Size (diameter x length)**
1.4 x 2"

- **2 year warranty**

**Features**

- 9 LEDs for ultra-low light performance
- 8m illumination distance
- Mirror view
- 1/3" Sharp CCD
- TV System: NTSC
- TV Lines: 420

Power

- Power consumption: 2.3 Watts
- Current: 0.2 Amps

Durability & Standards

- Mechanical vibration: 10G
- Operating Temperature: -4 to +158°F
- CE marked

NEW
SELECT CAMERA


Compact flush mount eyeball camera

VBV-301C - Mirror view

4611

VBV-321C - Normal view

4615

▪ **Viewing angle (HXVXD)**
102 x 78 x 145°

▪ **IP69K**

▪ **Size (WxHxD)**
2.2 x 1.6 x 2.7"

▪ **2 year warranty**


Features

- Lens swivel adjustment: 35°(Top) x 5°(Bottom) x 8°(Left) x 8°(Right)
- Lens rotation adjustment: ± 180°
- 5 infrared LEDs for ultra low-light performance
- 10-20" illumination distance
- Day / Night sensor
- 1/3" Sharp CCD
- TV System: NTSC
- 420 TV lines

Power

- Operating voltage: 12 Vdc
- Power consumption: 1.44 Watts
- Current consumption: 0.12 Amps

Durability & Standards

- Corrosion resistant: ISO9227 salt spray standard
- Mechanical vibration: 2.84G
- Operating temperature: -4 to +158°F
- CE marked
- EMC approved: E


OPTIONAL EXTRAS

SM-3XX-25 Surface mounting adapter (1" deep)

4596

THERMAL IMAGING CAMERAS


Brigade is an authorised distributor for Flir™ Thermal imaging Cameras.
Please contact us for further information.

ELITE MONITOR



BE-970WFM - Waterproof multi-image 7" Digital LCD monitor

3560

- 12-24Vdc
- 4 camera inputs
- IP69K
- Size (WxHxD)
7.6 x 4.8 x 1.8"
- 3 year warranty



Single



Split



Triple



Quad



Picture in picture

Plus Additional
In-Built Image
Options

Features

- Shutter camera compatible
- Backlit touch screen button panel
- 'Button-lock' anti tamper feature
- 5 Auto-triggers
- Mirror / Normal switching from menu
- On screen distance and vertical line markers
- Audio
- Speed switch trigger to operate system or determine split screen display
- Sun shield
- Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting (gives 20,000 hours life)
- Anti-glare screen
- Resolution: 800 x 480
- Contrast ratio: 500:1
- Brightness: 500cd/m²
- Viewing angles:
Side 65° x Top 50° x Bottom 60°

Power

- Power consumption: min 28 Watts
- Current: min 2.15 Amps

Durability & Standards

- Aluminium die cast casing
- Mechanical vibration: 10G
- Mechanical shock: 100G
- Operating temperature: -40 to +167°F
- CE marked
- EMC approved: E
- ISO 16750
- ISO 20653: 2006
- HALT tested

ELITE MONITOR



BE-970WM - Waterproof 7" Digital LCD monitor

3351

- 12-24Vdc
- 2 camera inputs
- IP69K
- Size (WxHxD)
7.6 x 4.8 x 1.8"
- 3 year warranty



Features

- Shutter camera compatible
- Backlit touch screen button panel
- 'Button-lock' anti tamper feature
- 2 Auto-triggers
- Mirror / Normal switching from menu
- On screen distance and vertical line markers
- Audio
- Sun shield
- Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting (gives 20,000 hours life)
- Anti-glare screen
- Resolution: 800 x 480
- Contrast ratio: 500:1

- Brightness: 500cd/m²
- Viewing angles:
Side 65° x Top 50° x Bottom 60°

Power

- Power consumption: 11 Watts
- Current: 0.9 Amps

Durability & Standards

- Aluminium die cast casing
- Mechanical vibration: 20G
- Mechanical shock: 100G
- Operating temperature: -40 to +158°F
- CE marked
- EMC approved: E
- ISO 16750
- ISO 13766: 2006
- HALT tested

ELITE MONITOR



BE-870LM - 7" Digital LCD monitor

2705

- 12-24Vdc
- 2 camera inputs
- Size (WxHxD)
7.7 x 5 x 1.1"
- 3 year warranty



Features

- 'Button-lock' anti tamper feature
- 2 Auto-triggers with configurable trigger-off delays
- Mirror / Normal switching from menu
- On-screen distance and vertical line markers
- Shutter / Tilt camera compatible
- Audio
- Sun shield
- Auto-dimmer and keypad illumination
- 8 language menus
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting
(gives 20,000 hours life)

- Anti-glare screen
- Resolution: 800 x 480
- Contrast ratio: 500:1
- Brightness: 400cd/m²
- Viewing angles:
Side 70° x Top 50° x Bottom 70°

Power

- Power consumption: 10 Watts
- Current: 1 Amp

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock: 100G
- Operating temperature: -22 to +158°F
- CE marked
- EMC approved: E

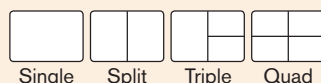
ELITE MONITOR



BE-865DDM - Double DIN 6.5" Digital LCD Monitor

3935

- 12-24Vdc
- 4 camera inputs
- Size (WxHxD) Double DIN
7.4 x 4.5 x 4.5"
- 3 year warranty



Picture in picture
Plus Additional
In-Built Image
Options

Features

- Shutter / Tilt camera compatible
- Backlit touch screen button panel
- 'Button-lock' anti tamper feature
- 5 Auto-triggers with option to select 3 triggers for split mode
- Mirror / Normal switching from menu
- On screen distance and vertical line markers
- Audio
- Speed switch trigger to operate system or determine split screen display
- Sun shield
- Multi-lingual menus
- Audio / video inputs / output
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting
(gives 20,000 hours life)

- Anti-glare screen
- Resolution: 800 x 480
- Contrast ratio: 500:1
- Brightness: 500cd/m²
- Viewing angles:
Side 70° x Top 50° x Bottom 70°

Power

- Power consumption: min 15.4 Watts
- Current: min 1.4 Amps

Durability & Standards

- Mechanical vibration: 6G
- Operating temperature: -40 to +158°F
- CE marked
- EMC approved: e
- ISO 16750

ELITE MONITOR



BE-856GM - 5.6" Digital LCD monitor

3756

- 12-24Vdc
- 2 camera inputs
- Size (WxHxD)
6.7 x 4.5 x 1.3"
- 3 year warranty



Features

- 2 Auto-triggers
- Mirror / Normal switching from menu
- On-screen distance & vertical line markers
- Audio
- Sun shield
- Auto-dimmer
- Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting (gives 20,000 hours life)
- Anti-glare screen
- Resolution: 640 x 480
- Contrast ratio: 500:1

- Brightness: 350cd/m²
- Viewing angles:
Side 70° x Top 50° x Bottom 70°

Power

- Power consumption: 11 Watts
- Current: 0.9 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock: 50G
- Operating temperature: -40 to +158°F
- CE marked
- EMC approved: e
- ISO 13766: 2006
- ISO 16750
- HALT tested

ESSENTIAL MONITOR



VBV-243M - 4.3" Digital mirror monitor

4070

- 12Vdc
- 1 camera input
- Size (WxDxH)
10.1 x 3.4 x 0.9"
- 1 year warranty



Features

- On screen display menu
- Digital LCD panel
- 1 Auto-trigger
- TV system: PAL / NTSC

Picture Quality

- Resolution: 480 x 272
- Contrast ratio: 500:1
- Brightness: 200cd/m²
- Viewing angles:
Side 50° x Top 60° x Bottom 55°

Power

- Power consumption: 4.95 Watts
- Current: 0.45 Amps

Durability & Standards

- Vibration rating: 6G
- Operating temperature:
-4 to +158°F
- CE marked

Model

Part No:

NEW

SELECT MONITOR



VBV-7104FM - Multi-image 10.4" Digital LCD Monitor

4474

- 12-24Vdc
- 4 camera inputs
- Size (WxHxD)
10.5 x 7.5 x 1.2"
- 2 year warranty



Single



Split



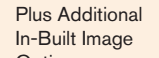
Triple



Quad



Picture in picture


Plus Additional
In-Built Image
Options

Features

- 'Button-lock' anti tamper feature
- 5 Auto-triggers
- Configurable trigger delay
- Mirror / Normal switching from menu
- On-screen distance markers
- Built-in speaker
- Sun shield
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting
(gives 30,000 hours life)
- Anti-glare screen
- Resolution: 1024 x 768
- Contrast ratio: 500:1
- Brightness: 400cd/m²
- Viewing angles: Side 70° x Top 60° x Bottom 60°

Power

- Power consumption: 22 Watts
- Current: 2 Amps

Durability & Standards

- Mechanical vibration: 2.83G
- Operating temperature:
-4 to +158°F
- CE marked
- EMC approved: E
- HALT tested

SELECT MONITOR



VBV-770FM - Multi-image 7" Digital LCD monitor

3901

- 12-24Vdc
- 4 camera inputs
- Size (WxHxD)
7.1 x 4.8 x 1.6"
- 2 year warranty



Single



Split



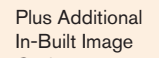
Triple



Quad



Picture in picture


Plus Additional
In-Built Image
Options

Features

- 'Button-lock' anti tamper feature
- 5 Auto-triggers
- Mirror / Normal switching from menu
- On-screen distance markers
- Audio
- Sun shield
- Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting
(gives 20,000 hours life)
- Anti-glare screen
- Resolution: 800 x 480
- Contrast ratio: 500:1
- Brightness: 400cd/m²
- Viewing angles:
Side 70° x Top 50° x Bottom 70°

Power

- Power consumption: 25.5 watts
- Current: 2.1 Amps

Durability & Standards

- Mechanical vibration: 4G
- Operating temperature: -22 to +158°F
- CE marked
- EMC approved: E

NEW

SELECT MONITOR

**VBV-770M - 7" Digital LCD monitor****4288****VBV-770M-S - 7" Digital LCD monitor****4697**

Includes 1 5-pin input for connection to VBV-711C shutter camera

- 12-24Vdc
- 3 camera inputs
- Size (WxHxD)
7.7 x 4.6 x 1"
- 2 year warranty

**Features**

- 3 Auto-triggers
- Mirror / Normal switching from menu
- 'Button lock' anti-tamper feature
- On-screen distance markers
- Audio
- Sun shield
- Auto-dimmer
- Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting
(gives 20,000 hours life)
- Anti-glare screen
- Resolution: 800 x 480

- Contrast ratio: 500:1
- Brightness: 400cd/m²
- Viewing angles:
Side 70° x Top 50° x Bottom 70°

Power

- Power consumption: 18 Watts
- Current: 1.5 Amps

Durability & Standards

- Mechanical vibration: 4G
- Mechanical shock: 100G
- Operating temperature: -22 to +158°F
- CE marked
- EMC approved: E
- HALT tested

NEW

SELECT MONITOR

**VBV-750M - 5" Digital LCD monitor****4287****VBV-750M-S - 5" Digital LCD monitor****4710**

Includes 1 5-pin input for connection to VBV-711C shutter camera

- 12-24Vdc
- 3 camera inputs
- Size (WxHxD)
5.8 x 3.9 x 0.8"
- 2 year warranty

**Features**

- 3 Auto-triggers
- Mirror / Normal switching from menu
- On-screen distance markers
- 'Button lock' anti-tamper feature
- Audio
- Sun shield
- Auto-dimmer
- Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting
(gives 20,000 hours life)
- Anti-glare screen
- Resolution: 800 x 480

- Contrast ratio: 500:1
- Brightness: 350cd/m²
- Viewing angles:
Side 70° x Top 50° x Bottom 70°

Power

- Power consumption: 11.5 Watts
- Current: 0.95 Amps

Durability & Standards

- Mechanical vibration: 4G
- Mechanical shock: 100G
- Operating temperature: -22° to +158°F
- CE marked
- EMC approved: E
- HALT tested

Model

Part No:

RIGID VEHICLES ELITE RANGE CAMERA MONITOR SYSTEMS

BE-870L-000N - Single camera monitor system for rigid vehicles

3131



- BE-870LM - 7" monitor
- BE-801C - heated camera
- BE-L120 - 66' cable

See individual products for detailed specifications

▪ 3 year system warranty

RIGID VEHICLES SELECT RANGE CAMERA MONITOR SYSTEMS

VBV-770-301 - Single flush-mount camera monitor system for rigid vehicles 4779



- VBV-770M - 7" monitor
- VBV-301C - flush-mount camera
- VBV-L420 - 66' cable

See individual products for detailed specifications

▪ 2 year system warranty

VBV-770-000N - Single camera monitor system for rigid vehicles

4693



- VBV-770M - 7" monitor
- VBV-701C - camera
- VBV-L420 - 66' cable

See individual products for detailed specifications

▪ 2 year system warranty

VBV-770-100N - Single shutter camera monitor system for rigid vehicles

4770



- VBV-770M-S - 7" monitor
- VBV-711C - shutter camera
- VBV-L520 - 66' cable

See individual products for detailed specifications

▪ 2 year system warranty

RIGID VEHICLES (CONTINUED)

SELECT RANGE CAMERA MONITOR SYSTEMS

VBV-750-301 - Single flush-mount camera monitor system for rigid vehicles 4778



- VBV-750M - 5" monitor
- VBV-301C - flush-mount camera
- VBV-L420 - 66' cable

See individual products for detailed specifications

▪ 2 year system warranty

VBV-750-000N - Single camera monitor system for rigid vehicles 4706



- VBV-750M - 5" monitor
- VBV-701C - camera
- VBV-L420 - 66' cable

See individual products for detailed specifications

▪ 2 year system warranty

VBV-750-100N - Single shutter camera monitor system for rigid vehicles 4709



- VBV-750M-S - 5" monitor
- VBV-711C - shutter camera
- VBV-L520 - 66' cable

See individual products for detailed specifications

▪ 2 year system warranty

RIGID VEHICLES

ESSENTIAL RANGE CAMERA MONITOR SYSTEM

VBV-650-000N - Single camera monitor system for rigid vehicles 4766



- VBV-650AM - 5" monitor
- VBV-621C - camera
- VBV-L420 - 66' cable
- 1 year warranty

Monitor

- 12-24Vdc
- 1 camera input
- Size (WxHxD)
5.8 x 4.3 x 1.2"

Camera

- Viewing angle (HxVxD)
81 x 59 x 106°
- IP67
- Size (WxHxD)
2.5 x 2.3 x 2.1"



Model

Part No:

SMALL RIGID VEHICLES AND VANS SELECT RANGE CAMERA MONITOR SYSTEMS

VBV-770-311 - Single flush-mount camera monitor system for vans

4783



- VBV-770M - 7" monitor
- VBV-301C - flush-mount camera
- VBV-L410 - 33' cable

See individual products for detailed specifications

• 2 year system warranty

VBV-770-010N - Single flush-mount camera monitor system for vans

4694



- VBV-770M - 7" monitor
- VBV-701C - camera
- VBV-L410 - 33' cable

See individual products for detailed specifications

• 2 year system warranty

VBV-750-311 - Single flush-mount camera monitor system for rigid vehicles 4782



- VBV-750M - 5" monitor
- VBV-301C - flush-mount camera
- VBV-L410 - 33' cable

See individual products for detailed specifications

• 2 year system warranty

VBV-750-000N - Single camera monitor system for rigid vehicles

4707



- VBV-750M - 5" monitor
- VBV-701C - camera
- VBV-L410 - 33' cable

See individual products for detailed specifications

• 2 year system warranty

EXTEND YOUR SYSTEM

Add a front or side camera bundle to any Select range camera monitor kit:

VBV-301C-SB - Side view camera bundle (mirror image)

4786

VBV-321C-SB - Side or front view camera bundle (normal view)

4787



- VBV-301C or VBV-321C flush-mount camera
- VBV-405 - 16' cable

See individual products for detailed specifications

• 2 year system warranty

WIRELESS CAMERA MONITOR CONNECTION SYSTEM



DW-1001-TX - Digital Wireless Transmitter

4282

DW-1001-RX - Digital Wireless Receiver

4283

- **Digital technology**

- **12-24Vdc**

- **1 camera input**

- **IP69K (Transmitter)**

- **Size (WxHxD)**
4.4 x 4.4 x 1.2"

- **2 year warranty**

Features

- Image Latency: 200 milliseconds
- Eliminates the need for retractable coiled cables
- Reduces installation time
- Re-pair facility allows for interchangeable trailers
- Compatible with Brigade's camera monitors
- Triggered by reverse gear
- TV System PAL/NTSC
- Secure connection
- Transmission frequency: 2.4 GHz
- Transmission power: 18 dBm

Power

- Maximum Current Amps:
TX: 0.85 RX: 0.17
- Power consumption:
TX: 9.8 Watts RX: 2.2 Watts

Durability & Standards

- Operating temperature:
-40 to +158°F
- Mechanical vibration: 6G
- Mechanical shock: 20G
- CE marked
- FCC approved
- IC approved

ELITE TRUCK/TRAILER CABLE KIT

SK-31E - Cable kit for articulated trucks - unique pin layout

1830

SK-31E-T - Trailer only version

1886



SK-31E Cable kit

- | | | | |
|---|-------------|---|-------------|
| ▪ BE-L110 - 10m cable for cab | 0803 | ▪ SP-7B - 7-pin bulkhead socket for trailer & trailer-end camera connector (unique pin layout) | 1828 |
| ▪ BE-X020 - 20m extension cable for trailer | 1143 | ▪ SC-7 - Coiled cable with 7-pin plugs (unique pin layout) | 1829 |
| ▪ SP-7A - 7-pin bulkhead socket for cab & cab-end camera connector (unique pin layout) | 1827 | | |

ELITE TRUCK/TRAILER CABLE KIT

SK-30E - Cable kit for articulated trucks

1144

SK-30E-T - Trailer only version

1885



SK-30E Cable kit

- | | | | |
|--|-------------|--|-------------|
| ▪ BE-L110 - 10m cable for cab | 0803 | ▪ SP-07T - 7-pin bulkhead socket for trailer & trailer-end camera connector | 1142 |
| ▪ BE-X020 - 20m extension for trailer | 1143 | ▪ SC-07 - Coiled cable with 7-pin plugs | 1046 |
| ▪ SP-07C - 7-pin bulkhead socket for cab & cab-end camera connector | 1140 | | |

Model

Part No:

ELITE TRUCK/TRAILER CABLE KIT

SK-15-01 - Three camera cable kit for articulated trucks
3427


- | | | | |
|--|------|--|------|
| ▪ SP-15A-01 - 15-pin bulkhead socket for cab & 3 cab-end camera connectors | 3423 | ▪ SP-15B-01 - 15-pin bulkhead socket for trailer & 3 trailer-end camera connectors | 3422 |
| | | ▪ SC-15-01 - Coiled shielded cable with 15-pin plugs | 3268 |

ELITE TRUCK/TRAILER CABLE KIT

SK-15-04 - Single camera & single buzzer Ultrasonic Detection System (new generation) cable kit for articulated trucks
3997


- | | | | |
|---|------|---|------|
| ▪ SP-15A-04 - 15-pin bulkhead socket for cab & cab-end camera connector plus stripped wires and display/buzzer connection for Ultrasonics | 3955 | ▪ SP-15B-04 - 15-pin bulkhead socket for trailer & trailer-end camera connector plus stripped wires and display/buzzer connection for Ultrasonics | 3956 |
| | | ▪ SC-15-01 - Coiled shielded cable with 15-pin plugs | 3268 |

ELITE TRUCK/TRAILER CABLE KIT

SK-31E - Cable kit for articulated trucks - unique pin layout
SK-31E-T - Trailer only version
1830
1886


SK-31E Cable kit

- | | | | |
|--|------|--|------|
| ▪ BE-L110 - 10m cable for cab | 0803 | ▪ SP-7B - 7-pin bulkhead socket for trailer & trailer-end camera connector (unique pin layout) | 1828 |
| ▪ BE-X020 - 20m extension cable for trailer | 1143 | ▪ SC-7 - Coiled cable with 7-pin plugs (unique pin layout) | 1829 |
| ▪ SP-7A - 7-pin bulkhead socket for cab & cab-end camera connector (unique pin layout) | 1827 | | |

SELECT TRUCK/TRAILER CABLE KIT

VSK-30E - Cable kit for articulated trucks

2538

VSK-30E-T - Trailer only version

2542



▪ VBV-L410 - 10m cable for cab	1386	▪ VSP-47B -7-pin bulkhead socket for trailer & trailer-end camera connector	1846
▪ VBV-L420 - 20m cable for trailer	1380		
▪ VSP-47A - 7-pin bulkhead socket for cab & cab-end camera connector	1847	▪ SC-07-24S - Coiled cable with type 24S 7-pin plugs	1227

ELITE CAMERA CABLE



BE-L130 - 98' cable	0800
BE-L120 - 66' cable	0801
BE-L115 - 49' cable	0802
BE-L110 - 33' cable	0803
BE-L105 - 16' cable	0804
BE-L1003 - 1.2' cable	2797

ELITE CAMERA EXTENSION CABLE



BE-X025 - 82' extension cable	1907
BE-X020 - 66' extension cable	1143
BE-X015 - 49' extension cable	2101
BE-X010 - 33' extension cable	2100
BE-X005 - 16' extension cable	2099
BE-X003 - 10' extension cable	0805

SELECT CAMERA CABLE



VBV-L430 - 98' cable	2108
VBV-L420 - 66' cable	1380
VBV-L415 - 49' cable	3150
VBV-L412 - 39' cable	3106
VBV-L410 - 33' cable	1386
VBV-L405 - 16' cable	1499
VBV-L4025 - 8' cable	1554
VBV-L520 - 66' 5-pin shutter camera cable	3664
VBV-L510 - 33' 5-pin shutter camera cable	3663
VBV-L505 - 16' 5-pin shutter camera cable	4001

Model

Part No:

CAMERA MONITOR ADAPTER CABLES



AC-006 - Connects Select series camera to Elite series cable

1983



AC-007 - Connects Select series monitor to Elite series cable

1984



AC-014 - Connects Extreme or Elite series camera to Select series cable

2094



AC-016 - Connects AV to Camera input of Elite monitor

2150



AC-019 - Connects Elite camera to male phono (video only)

2589



AC-020 - Connects Extreme or Elite series monitor to Select series cable

2590



AC-024 - Connects phono to Select monitor

3183



AC-035 - 5-pin to 4-pin shutter camera adapter

3702



AC-041 - Connects Elite camera to John Deere 7 pin amp output

4245



AC-042 - Connects Select camera to John Deere 7 pin amp output

4246



AC-044 - Connects Elite camera to Molex M12 (Fendt)

4279



AC-045 - Connects Select camera to Molex M12 (Fendt)

4280



AC-056 - Connects Select camera to Orlaco monitor

4401



AC-062 - Connects Elite camera to Orlaco monitor

4691



CAMERA MONITOR ADAPTER CABLES

AC-24-12(001) - in-line 24/12v converter - Select camera to Elite monitor 4235

AC-24-12(002) - in-line 24/12v converter - Elite camera to Fakra monitor 4266

AC-24-12(003) - in-line 24/12v converter - 2 x Select cameras to M12 5-pin +power 4301

AC-24-12(005) - in-line 24/12v converter - Select camera to M12 5-pin 4323

AC-24-12(006) - in-line regulator - Select camera to Volvo connector 4719

OEM CAMERA MONITOR ADAPTER CABLES

A further range of OEM specific adapters to connect Brigade cameras to factory fit monitors is available - Please contact us for details

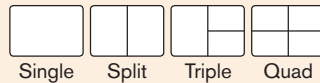
CAMERA MONITOR SYSTEM ANCILLARIES



EDM-50 - Multi-camera module and screen splitter

2152

- **12-24Vdc**
- **4 camera inputs**
- **Size (WxHxD)**
6 x 1.1 x 4.1"
- **2 year warranty**



Plus Additional In-built Image Options

Features

- Shutter camera compatible
- Tilt camera compatible
- AV input to accept DVD, sat nav or other add-ons
- 5 manual or auto-triggers for each camera
- On screen distance markers
- Mirror / Normal image switch for each camera
- Selectable camera audio
- Auto-scanning function
- Compatible across Brigade camera monitor range (adapters required for Select series)

Power

- Power consumption: 20 Watts

Durability & Standards

- Mechanical vibration: 5G
- Operating temperature: -13 to +158°F
- CE marked
- EMC approved: e

CAMERA MONITOR SYSTEM ANCILLARIES



SS-002 - Twin camera screen splitter

3044

- 12-24Vdc
- 2 camera inputs
- Size (WxHxD) 5.8 x 1.4 x 3"
- 2 year warranty



Single



Split

In-Built Image Options

Features

- Offers split screen option for monitors without in-built functionality
- 3 auto-triggers for each camera
- TV System: PAL / NTSC
- Manual Mirror / Normal switching
- Compatible across Brigade camera monitor range (adapters required for Elite series)

Power

- Power Consumption: 10.8 Watts

Durability & Standards

- Mechanical vibration: 10G
- Operating temperature: -40 to +158°F
- EMC approved: e

CAMERA MONITOR SYSTEM ANCILLARIES



LS-20-A - Low speed trigger module (normally closed)

3177

- 12-24Vdc
- Auto-triggers safety equipment at the designated speed
- Size (WxHxD) 2.4 x 1.4 x 3.7"
- 2 year warranty

Features

- Simple to change triggering speed using DIP switch
- Normally closed - safety device on by default, turning off at designated speed
- Compatible with Brigade camera monitor systems

Power

- Power consumption: 0.1 Watts
- Current: 0.05 Amps

Durability & Standards

- Mechanical vibration: 10G
- Operating temperature: -40 to +158°F
- CE marked

CAMERA MONITOR SYSTEM ANCILLARIES



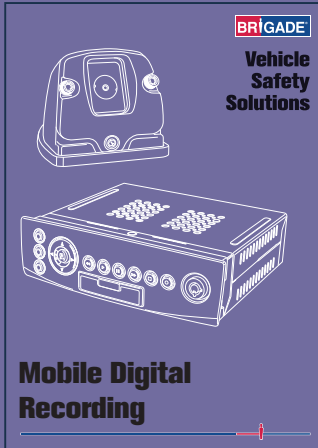
SC-1000-ECU - Shutter camera module

3666

- Allows BE-811C shutter camera to function with any Elite range monitor (using Elite range cables).

- Use AC-007 adapter to connect to Select or Essential range monitor.
- CE marked
- EMC approved: e

mobile digital recording



Available Brochure

By recording footage from vehicle mounted cameras, mobile digital recording provides an accurate witness, giving irrefutable evidence in the case of false claims, crash for cash incidents or vandalism. Disproving these claims means companies can make major cost savings, whilst importantly supporting their drivers, who are often the subject of increased scrutiny.

- False claim prevention
- Protection for drivers who may be wrongly accused
- Provides irrefutable evidence in the case of accidents and legal proceedings
- Useful in reducing shrinkage and catching perpetrators
- Driver training and best practice
- Peace of mind for passengers and drivers



Model

Part No:

MOBILE DIGITAL RECORDER


MDR-304A-500 - 500GB hard disk with improved data download speed 3880

- 12-24Vdc
- 4 camera inputs
- 4 trigger/alarm inputs
- Lockable central caddy
- Fast, easily downloadable recordings and data
- Size (WxHxD)
7 x 2 x 6.8"
- 3 year warranty



Features

- Black box recorder with docking station and anti-vibration mounting
- Removable central caddy with integral hard disk and lockable keypad
- Up to 780 hours recording (based on 6 frames per second and standard image quality)
- Recording can be triggered by motion detection even when vehicle inactive
- Record images prior to alarm activation and after vehicle turned off
- Easy to use via 'DVD' style front panel
- Video and audio recordings saved on hard disk
- Download data to PC 10x faster than previous model via high speed USB 2.0 interface. Alternatively save data to removable SDHC card
- Simple to use HDD viewer software enables search of recorded video and export of critical moments to AVI video or static JPEG files

- 2 trigger / alarm outputs to trigger other devices
- Compatible with Brigade camera monitor systems
- Optional GPS sensor to record location, route and speed data
- Optional G sensor to record X, Y and Z impact data in the event of an accident
- Manually selectable PAL / NTSC

Picture Quality

- MPEG4 image compression allows high quality image resolution
- Choice of recorded image quality – low to high resolution
- Record at between 2 and 30 frames per second per channel

Durability & Standards

- Mechanical vibration: 2G
- Mechanical Shock: 15G
- Operating temperature: -4 to +122°F
- EMC approved: e

OPTIONAL EXTRAS


AC-301 Connects Select camera to MDR & monitor 2904

AC-302 Connects Elite/Extreme camera to MDR & monitor 2923

AC-006 Connects Select series camera cable to MDR 1983

RC-300-060 Remote control with 20' cable 2803

GPS-6015-050 GPS receiver (speed & location data) with 16' cable 2925
GS-6016-030 G sensor with 9' cable 4140

NEW**MOBILE DIGITAL RECORDER****EDR-101-008 - Event Data recorder****4505**

- **12-24Vdc**
- **1 in-built camera plus 1 external camera input**
- **Fast, easily downloadable recordings and data**
- **Size (WxHxD)**
3.3 x 1.9 x 1"
- **1 year warranty**

**Contents:**

- 1x Recorder
- 1x GPS Antenna
- 1 x power cable
- 1x Mounting Bracket & adhesive pad
- 1x 8GB Micro SD card
- 1x Micro SD to SD adaptor
- 1x Software CD
- 1x user manual

Features

- High definition video capture for clear incident recording
- 112° wide angle camera lens
- 4 recording modes:
 - Normal
 - Event - shock sensor enables 10 seconds before and after an event to be recorded
 - Parking - movement engages event recording as above
 - Emergency - Driver presses the function button
- Up to 4 hours recording on supplied micro SD card (supports up to 32Gb)
- Simultaneous normal and event recording

- Continuous recording with automatic overwriting of oldest data.
- Audio function for additional event information
- GPS module for locating tracking
- Viewing software allows two cameras to be viewed, alongside speed, G-force levels and location
- Software allows still images (jpeg) to be created with embedded date and time

Picture Quality

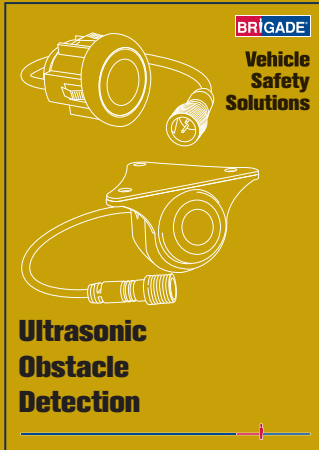
- CMOS sensor
- Video resolution: HD + VGA 1280 x 720 pixels
- MPEG4 image compression allows high quality image resolution
- Choice of recorded image quality – low to high resolution
- Fast frame rate, 30 frames per second, for smooth images

Durability & Standards

- Mechanical vibration: 2.5G
- Operating temperature: 14 to 122°F
- CE self DoF

OPTIONAL EXTRAS

EDR-101-LOCK	SD card security lock	4517
EDR-142C	Micro camera	4514
EDR-101-VC	V-out cable	4511
EDR-101-CPC	Cigar lighter power cable	4510



Available Brochure

ultrasonic obstacle detection

Sensor systems inform driver of distance between vehicle and any obstacles, whether moving or stationary. Perfect for road going commercial vehicles regularly operating in confined spaces or manoeuvring at low speeds.

Which system do you need?

Sidescan®

4 sensor system fitted to side of vehicle increasing safety when turning or low speed manoeuvring. Particularly relevant for near side blind spot where cyclists or pedestrians can otherwise go undetected.

Backscan®

4 sensor system fitted to rear of vehicle as an invaluable aid to safe reversing. Gives greater protection to pedestrians and workers, whilst minimising damage to vehicle and other objects.

Cornerscan™

3 sensor system fitted to near side corner of vehicle cab detects objects in front near side blind spot. Minimises the risk of damage to the vehicle cab whilst manoeuvring at low speed.

Frontscan®

4 sensor system fitted to front of vehicle improving safety when manoeuvring at low speed. Particularly relevant for front blind spot on high cabs where low objects or pedestrians can be hidden.

Stepscan™

2 sensor system fitted to near side cab step giving awareness to the driver of objects to the side when turning and reversing. Minimises the risk of damage to the vehicle cab from otherwise unseen objects.

SIDESCAN® ULTRASONIC DETECTION SYSTEM

SS-4000W - Sidescan sensor system

3711



- 4 sensor system
- 12-24 Volts
- 3/5' detection range - (selectable via dip switch)
- Audible distance warning
- Underslung and flush-mount fixings included
- 2 levels of sensitivity - (selectable via dip switch)
- 2 year warranty

Contents

- 4 x sensors
- Buzzer
- 4 x 0° flush mount fixings
- 4 x 11° flush mount fixings
- 4 x underslung fixings
- Waterproof control box
- 33' buzzer cable
- 4 x 15' sensor cables
- 2 x 8' extension cables

Features

- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false alarms from ancillary

equipment that intrudes in the first 3' of the detection zone

- Self-diagnostic function

Durability & Standards

- Operating temperature: -40 to +176°F
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

ADDITIONS FOR ARTICULATED VEHICLES

SK-15-04	Truck/trailer camera/sensor cable kit - see p25	3997
SK-UDS-05	Truck/trailer sensor only cable kit (required)	4219
UDS-10BC	33' display cable (required)	3716
SS-4000W	Additional Sidescan sensor system for cab (optional)	3711

RECOMMENDED EXTRA

LS-20-A	Low speed trigger module (enables sensors below designated speed)	3177
TS-001ECU	Turn indicator trigger for system activation	1362

OPTIONAL EXTRA

SS-BC-08	Backchat speaking alarm with side turn warning for cyclists/pedestrians Note: TS-001ECU Turn indicator trigger is required	1334
TCO-47-01	Latched auto-reset Backalarm cut-out (dash mount)	4752



BACKSCAN® ULTRASONIC DETECTION SYSTEM

BS-4000W - Backscan reversing sensor system

3744



- 4 sensor system
- 12-24 Volts
- 8' detection range - outer sensors 8/2' (selectable via dip switch)
- Graduated visual and audible distance warning display
- Underslung and flush-mount fixings included
- 1.6" compensation range for sensors fitted inboard of vehicle rear (selectable via dip switch)
- 2 year warranty

Contents

- 4 x sensors
- Visual and audible display
- 4 x 0° flush mount fixings
- 4 x 11° flush mount fixings
- 4 x underslung fixings
- Waterproof control box
- 49' display cable
- 4 x 8' sensor cables

Features

- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false alarms from tow-hooks and other ancillary equipment that intrudes in the first 3' of the detection zone

- Self-diagnostic function
- 1 x Trigger output

Durability & Standards

- Operating temperature: -40 to +176°F
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

- 5' detection range model also available - Please contact us for details

REQUIRED ADDITIONS FOR ARTICULATED VEHICLES

SK-15-04	Truck/trailer camera/sensor cable kit - see p25	3997
SK-UDS-05	Truck/trailer sensor only cable kit	4219
UDS-10BC	33' Buzzer/display cable	3716

OPTIONAL EXTRA

UDS-RELAY-24	Trigger-out diode protected relay 24v	4215
UDS-RELAY-12	Trigger-out diode protected relay 12v	4216

CORNERSCAN™ ULTRASONIC DETECTION SYSTEM

CS-3000 - Cornerscan sensor system

3712



- 3 sensor system
- 12-24 Volts
- 2/3' detection range - (selectable via dip switch)
- Audible distance warning
- Flush-mount
- 2 levels of sensitivity - (selectable via dip switch)
- 2 year warranty

Contents

- 3 x sensors
- Buzzer
- 3 x 11° flush mount fixings
- 3 x 18° flush mount fixings
- 3 x 26° flush mount fixings
- Waterproof control box
- 8' buzzer cable
- 3 x 8' sensor cables

Features

- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false

alarms from ancillary equipment that intrudes in the first 3' of the detection zone

- Self-diagnostic function

Durability & Standards

- Operating temperature: -40 to +176°F
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

RECOMMENDED EXTRA



LS-20-A

Low speed trigger module
(enables sensors below designated speed)

3177

STEPSCAN™ ULTRASONIC DETECTION SYSTEM

ST-2000 - Stepscan sensor system

3742



- 2 sensor system
- 12-24 Volts
- 2/3' detection range - (selectable via dip switch)
- Audible distance warning
- Flush-mount
- 2 levels of sensitivity - (selectable via dip switch)
- 2 year warranty

Contents

- 2 x sensors
- Buzzer
- 2 x 11° flush mount fixings
- 2 x 18° flush mount fixings
- 2 x 26° flush mount fixings
- Waterproof control box
- 8' buzzer cable
- 2 x 8' sensor cables

Features

- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false

alarms from ancillary equipment that intrudes in the first 3' of the detection zone

- Self-diagnostic function

Durability & Standards

- Operating temperature: -40 to +176°F
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

Model

Part No:

FRONTSCAN® ULTRASONIC DETECTION SYSTEM

FS-4000W - Frontscan sensor system

3747



- 4 sensor system
- 12-24 Volts
- 7/3' detection range - outer sensors can be reduced to 2' (selectable via dip switches)
- Audible distance warning
- Flush-mount
- 2 year warranty

Contents

- 4 x sensors
- Buzzer
- 4 x 11° flush mount fixings
- 4 x 18° flush mount fixings
- 4 x 26° flush mount fixings
- Waterproof control box
- 8' buzzer cable
- 4 x 8' sensor cables

Features

- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false alarms from tow-hooks

and other ancillary equipment that intrudes in the first 3' of the detection zone

- Self-diagnostic function
- 1 x Trigger output

Durability & Standards

- Operating temperature: -40 to +176°F
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- EMC approved: E

RECOMMENDED EXTRA



LS-20-A

Low speed trigger module
(enables sensors below designated speed)

3177

OPTIONAL EXTRA

UDS-RELAY-24

Trigger-out diode protected relay 24v

4215

UDS-RELAY-12

Trigger-out diode protected relay 12v

4216

EXTENSION CABLES

UDS-2.5BC - Buzzer/display extension cable 8'

3717

UDS-10BC - Buzzer/display extension cable 33'

3716

UDS-15BC - Buzzer/display extension cable 49'

3746

UDS-2.5SC - Sensor extension cable 8'

3719

UDS-4.5SC - Sensor extension cable 15'

3720



Available Brochure

Vital safety devices needed to warn workers and pedestrians that a vehicle is manoeuvring. Our range includes bbs-tek® white sound® alarms; smart alarms which adjust to the ambient noise level; and speaking alarms, which provide a real speech warning of imminent danger.

Which alarm is for you?

Heavy duty

For plant, quarry and construction machines or environments with high ambient noise.



Medium duty

Ideal for commercial road going vehicles and environments with mid level ambient noise.



Vehicle specific

Petrol tanker (ADR) and electric forklift (High Voltage) options available.



back-up and warning alarms

bbs-tek® white sound®

The safest alarms in the world due to their instant locatability and directional sound. The multi-frequency alarms are only heard in the danger zone, thus eliminating noise nuisance for local residents.

bbs-tek® smart back-up alarms

Continually adjust to 5-10 decibels above ambient so ideal in varying noise level environments.

bbs-tek® back-up alarms



Backchat®

Speaking warning alarms that reproduce real speech with unrivalled quality and clarity.

Bespoke speaking alarms

Define your own message as required.

Nightshift® speaking alarms

Include built-in alarm cut-out for night-time use.

Vehicle intercom

Two-way communication system provides clear, reliable communication between the driver and others not in the cab.



WHITE SOUND® SMART REVERSING ALARM



SA-BBS-107 - Self adjusting heavy duty - 87-107 Decibels

1400

- 12-24 Volts
- IP68
- Size (WxHxD)
6.7 x 3.1 x 3.7"
- Lifetime warranty

Features

- Alarm continually adjusts to 5-10dB above ambient
- Multi frequency broadband sound
- Instantly locatable
- Sound confined to danger area
- Eliminates noise nuisance
- Sounder unit: Driver
- Hole centers: 6"

Power

- Current: Max 1 Amp

Durability & standards

- Mechanical vibration: 10G
- Operating temperature: -40 to +185°F
- CE marked
- SAE J994
- OSHA & MSHA compliant (providing appropriate unit correctly installed)

WHITE SOUND® BACK-UP ALARM



SA-BBS-97 - Self adjusting - medium duty - 77-97 Decibels

1399

SA-BBS-97HV - Self adjusting - electric forklift - 77-97 Decibels

1398

- 12-24 Volts
- 36-80 Volts (HV)
- IP68
- Size (WxHxD)
5 x 3 x 2.5"
- Lifetime warranty

Features

- Alarm continually adjusts to 5-10dB above ambient
- Multi frequency white sound alarm
- Instantly locatable
- Sound confined to danger area
- Eliminates noise nuisance
- Sounder unit: Driver
- Hole centers: 3.8-4.2"

Power

- Current: Max 1 Amp

Durability & standards

- Mechanical vibration: 10G
- Operating temperature: -40 to +85°F
- CE marked
- SAE J994
- OSHA & MSHA compliant (providing appropriate unit correctly installed)

WHITE SOUND® BACK-UP ALARM



BBS-107 - Heavy duty - 107 Decibels

0899

BBS-102 - Heavy duty - 102 Decibels

0898

- 12-24 Volts
- IP68
- Size (WxHxD)
6.7 x 3.1 x 3.7"
- Lifetime warranty

Features

- Multi frequency broadband sound
- Instantly locatable
- Sound confined to danger area
- Eliminates noise nuisance
- Sounder unit: Driver
- Hole centers: 6"

Power

- Current: Max 1 Amps

Durability & standards

- Mechanical vibration: 10G
- Operating temperature: -40 to +815°F
- CE marked
- EMC approved: e
- SAE J994
- OSHA & MSHA compliant (providing appropriate unit correctly installed)

Model

Part No:

WHITE SOUND® BACK-UP ALARM



BBS-92HV - Electric forklift - 92 Decibels	1402
BBS-82HV - Electric forklift - 82 Decibels	1322
BBS-92ADR - Petrol tanker - 92 Decibels	2165

- 12-24 Volts
- 36-80 Volts (HV)
- IP68
- Size (WxHxD)
5 x 3 x 2.5"
- Lifetime warranty

Features

- Multi frequency broadband sound
- Instantly locatable
- Sound confined to danger area
- Eliminates noise nuisance
- Sounder unit: Speaker
- Hole centers: 3.8-4.2"

Power

- Current: Max 0.3 Amps

Durability & standards

- Mechanical vibration: 10G
- Operating temperature: -40 to +185°F
- CE marked
- EMC approved: e
- SAE J994
- OSHA & MSHA compliant (providing appropriate unit correctly installed)

BEST SELLER

WHITE SOUND® BACK-UP ALARM



BBS-97 - Medium duty - 97 Decibels	0935
BBS-92 - Medium duty - 92 Decibels	0934
BBS-87 - Medium duty - 87 Decibels	0897
BBS-82 - Medium duty - 82 Decibels	0896
BBS-77 - Medium duty - 77 Decibels	1397

- 12-24 Volts
- IP68
- Size (WxHxD)
4.1 x 2.6 x 1.5" (BBS-97/92)
4.1 x 2.6 x 1.3" (BBS-87/82/77)
- Lifetime warranty

Features

- Multi frequency broadband sound
- Instantly locatable
- Sound confined to danger area
- Eliminates noise nuisance
- Sounder unit: Speaker
- Hole centers: 3"

Power

- Current: Max 0.5 Amps

Durability & standards

- Mechanical vibration: 10G
- Operating temperature: -40 to +185°F
- CE marked
- EMC approved: e
- SAE J994
- OSHA & MSHA compliant (providing appropriate unit correctly installed)

WHITE SOUND® BACK-UP ALARM



BBS-97GM - Medium duty - Grommet mount - 97 Decibels	3989
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- 12-24 Volts
- IP67
- Size: 4" diameter
- Lifetime warranty

Features

- Multi frequency broadband sound
- Instantly locatable
- Sound confined to danger area
- Eliminates noise nuisance
- Sounder unit: Speaker

Power

- Current: Max 0.5 Amps

Durability & standards

- Mechanical vibration: 10G
- Operating temperature: -40 to +185°F
- CE marked
- EMC approved: e
- SAE J994
- OSHA & MSHA compliant (providing appropriate unit correctly installed).

SPEAKING ALARM



BC-01HP(B) - Bespoke single message - 110 Decibels

1199

- 12-24 Volts
- IP68
- Size (WxHxD)
4.5 x 4.5 x 4.7 inches
- 2 year warranty

Features

- Real speech alarm
- BC-01HP message "Ssh! Stand well clear, vehicle reversing..."
- Bespoke message up to 8 seconds, under 4 seconds for best speech quality
- Sounder unit: Speaker
- Hole centers (inches): 4

Power

- Current: 0.5 Amps

Durability & standards

- CE marked
- EMC approved: e

NIGHTSHIFT® SPEAKING ALARM



BC-01(NS-B) - Bespoke single message - Nightshift - 90 or 0 Decibels

1198

- 12-24 Volts
- IP68
- Size (WxHxD)
4.8 x 3.3 x 2"
- 2 year warranty

Features

- Real speech alarm
- BC-01(NS) message "Bleep! Stand well clear, vehicle reversing..."
- Bespoke message up to 8 seconds, under 4 seconds for best speech quality
- Double engage reverse to cut-out or reduce sound

- Sounder unit: Speaker
- Hole centers: 4"

Power

- Current: 0.5 Amps

Durability & standards

- CE marked
- EMC approved: e

SPEAKING ALARM



BC-01(B) - Bespoke single message - 90 Decibels BC-02(B) - Bespoke dual message - 90 Decibels

0079

0083

- 12-24 Volts
- IP68
- Size (WxHxD)
4.8 x 3.3 x 2"
- 2 year warranty

Features

- Real speech alarm
- Bespoke message up to 8 seconds, under 4 seconds for best speech quality
- Sounder unit: Speaker
- Hole centers: 4"

Power

- Current: 0.5 Amps

Durability & standards

- CE marked
- EMC approved: e

Model

Part No:

SPEAKING SIDE TURN WARNING ALARM


SS-BC-08 - Single side turn message - 90 Decibels
1334

- 12-24 Volts
- IP68
- Size (WxHxD)
4.8 x 3.3 x 2"
- 2 year warranty

Features

- Real speech alarm
- * Message "Ssh! Caution. Truck turning left..."
- Sounder unit: Speaker
- Hole centers: 4"

Power

- Current: 0.5 Amps

Durability & standards

- CE marked
- EMC approved: e

Note: TS-001ECU Turn indicator trigger is required 1362

SPEAKING ATTACK ALARM


BC-AA(B) - Single bespoke message - 110 Decibels
1465

- 12-24 Volts
- IP68
- Size (WxHxD)
4.5 x 4.5 x 4.7"
- 2 year warranty

Features

- Real speech alarm
- Activated by panic button, repeats continuously until deactivated by hidden switch
- Sounder unit: Speaker
- Hole centers: 2"

Power

- Current: 0.5 Amps

Durability & standards

- CE marked
- EMC approved: e

VEHICLE INTERCOM



BC-VI - Normally open channel rear to cab; button press cab to rear
BC-VI-2 - Normally closed channel; button press communication

0815
0875

▪ 12-24 Volts

▪ IP68

▪ Size (WxHxD)
 4.8 x 3.3 x 2"

▪ 2 year warranty

Features

- Two-way communication system
- Master unit volume control: 80-95dB
- Includes master unit, slave unit and 82' cable
- Sounder unit: Speaker
- Hole centers: 4"

Power

- Current: 0.5 Amps

Durability & standards

- CE marked



ALARM ANCILLARIES

TCO-47 - Timed auto-reset Backalarm cut-out (dash mount)
TCO-47-01 - Latched auto-reset Backalarm cut-out (dash mount)

0663
4752

▪ 12-24 Volts

▪ 2 year warranty

Features

- Single touch timed relay
- Allows driver to cut-out Backalarm if reversing between 11.30pm-7.00am
- Auto-resets after 3-4 mins delay

Durability and Standards

- CE marked
- EMC approved



ALARM ANCILLARIES

NS-2 - Nightshift Backalarm cut-out switch
NS-3 - Nightshift Backalarm cut-out switch (auto gear box)

0334
0974

▪ 12-24 Volts

▪ IP68

▪ 2 year warranty

Features

- Double engage reverse to cut-out Backalarm
- Resets when reverse gear disengaged (longer time delay for NS-3)
- No wiring necessary to cab

Durability and Standards

- CE marked
- EMC approved

radar obstacle detection



Available Brochure

Backsense®

Robust, long-range, continuous wave radar sensor systems designed for harsh conditions. Informs driver of distance between vehicle and any obstacles, whether moving or stationary. Perfect for all machines working in construction, mobile plant and refuse.

Choosing your model

Programmable

Top of the range programmable system allowing bespoke detection areas up to 100' in length and 33' in width, with the ability to calibrate out fixed objects or bodywork.



Fixed

Fixed detection length and width. Ideal on machines where no calibration is required. Detection range of up to 20'.



NEW**PROGRAMMABLE BACKSENSE OBSTACLE DETECTION**

In-cab display

BS-8000 - Programmable detection range**4530**

Sensor, AV display, 30' cable

- **12-24 Volts**
- **Detection length: 1.2 to 98'**
- **Detection width: 6.5 to 33'**
- **Rugged design for harsh environmental conditions**
- **Sensor size (WxHxD)
9.3 x 5 x 2"**
- **IP69K sensor**
- **2 year warranty**

Features

- Frequency modulated continuous wave (FMCW) radar technology
- Effectively detects stationary, moving and multiple objects
- 1 activation input
- 1 trigger output
- Programmable:
 - Detection area
 - Blind zones - system ignores fixed objects
 - Trigger activation point
 - Buzzer
- 5 stage audible and visual distance warning display

- Resistant to water, moisture, dust, vibration, heat, cold, mud and glare

Power

- Current: 0.6 Amps

Durability & Standards

- Mechanical shock: 100G
- Operating temperature: -40 to +185°F
- CE marked
- EMC approved: E
- BS EN 13309: 2010
- ISO13766: 2006

EXTENSION CABLES**BS-05DCX - 16' extension cable****4550****BS-09DCX - 30' extension cable****4551****OPTIONAL EXTRAS****BKT-017 - Adjustable radar bracket****4676**

with 4" depth bracket mounting arms

Model

Part No:

NEW

FIXED BACKSENSE OBSTACLE DETECTION



BS-7030 - 10' detection range, 8' width

4527

Sensor, AV display, 30' cable

BS-7045 - 15' detection range, 11' width

4528

Sensor, AV display, 30' cable

BS-7060 - 20' detection range, 15' width

4529

Sensor, AV display, 30' cable



In-cab display

- 12-24 Volts
- Maximum detection range of 20'
- Rugged design for harsh environmental conditions
- Size (WxDxH) 9.3 x 5 x 2"
- IP69K sensor
- 2 year warranty

Features

- Frequency modulated continuous wave (FMCW) radar technology
- Effectively detects stationary, moving and multiple objects
- 1 activation input
- 1 trigger output
- 5 stage audible and visual distance warning display
- Resistant to water, moisture, dust, vibration, heat, cold, mud and glare

Power

- Current: 0.6 Amps

Durability & Standards

- Mechanical shock: 100G
- Operating temperature: -40 to +185°F
- CE marked
- EMC approved: E
- BS EN 13309: 2010
- ISO13766: 2006

EXTENSION CABLES

BS-05DCX - 16' extension cable

4550

BS-09DCX - 30' extension cable

4551



OPTIONAL EXTRAS

BKT-017 - Adjustable radar bracket

4676

with 4" deep bracket mounting arms

Amp

Unit of electric current.

Approved for indirect vision

Product meets directives (e.g. 2003/97/EC, 2007/38/EU) or standards (e.g. Regulation 46) with regard to its use on vehicles for indirect vision e.g. giving visibility in otherwise blind spots.

Auto-trigger

Enables automatic triggering of an action i.e. display of rear camera view when reverse gear engaged.

A/V input/output

Communication connection between electronic devices.

Input

Receives audio/visual signals such as from DVD or satellite navigation.

Output

Sends audio/visual signals to other devices such as to mobile digital recorder.

Brightness

Brightness of the picture displayed on a monitor, measured in candelas per square metre (cd/m²). Higher the measure the brighter the picture.

CCD (Charged-Coupled Device)

A tiny photocell used in cameras to convert light into a digital signal.

Contrast

Light intensity ratio of a display device between darkest and lightest colour produced.

CE mark

Confirmation that a product is in conformity with the essential requirements of any applicable directives e.g. 2004/108/EC (relating to Electromagnetic Compatibility).

Decibel

Unit of measure of the pressure (intensity) of sound. The higher the rating the more intense the sound.

EMC (Electro-magnetic compatibility)

A test to determine the unwanted effects of electromagnetic interference.

E

Complies to United Nations Commission for Europe (UNECE) standards e.g. ECE 10.03

e

Complies to Council of the European Union standards e.g. 2006/28/EC, 2009/19/EC

Frequency

Number of times a sound source vibrates per unit of time, measured in hertz (hz). The higher the rating the higher the pitch.

GPS (Global Positioning System)

Global satellite system providing positioning and timing services to worldwide users on a continuous basis.

HALT (Highly Accelerated Life Test)

A comprehensive stress test applied to electronic equipment to identify design weakness.

glossary

Illumination distance (camera)

Distance a camera with infrared LEDs can see in ultra-low light conditions, measured in metres.

IP## (Ingress Protection)

An international classification for the sealing of electrical equipment against the intrusion of solid objects (digit 1) and liquids (digit 2). Higher the rating the better protection in each case.

ISO 13766:2006

Specific standard for earthmoving equipment, includes requirements for some additional tests that are not covered in the tests for 'E' or 'e' under EMC.

ISO 15008:2003

Standard relating to the specifications and compliance procedures for in-vehicle visual presentation i.e. in relation to monitors.

ISO 16750

Standard providing guidance regarding environmental conditions commonly encountered by electrical and electronic systems installed in vehicles.

LCD (Liquid Crystal Display)

Thin, flat display device made up of any number of colour or monochrome pixels i.e. monitor screen.

LED (Light Emitting Diode (camera))

Emits infrared light for high efficiency and performance in ultra-low light.

LED (Light Emitting Diode (monitor))

Used to backlight the monitor display for crisp images and superior image quality.

Mechanical shock

Level of sudden acceleration or deceleration, such as impact or being dropped, to which product will still perform. Measured in gravitational force (G).

Mechanical vibration

Level of continuous or repetitive motion, such as engine vibration, to which product will still perform. Measured in gravitational force (G).

NAS-PIEK

The standard for quiet delivery vehicles in the UK, certified by the Noise Abatement Society.

NTSC (National Television Systems Committee)

TV colour encoding standard.

PAL (Phase Alternating Line)

TV colour encoding standard.

Resolution (RGB)

Number of pixels used to display an image. Measured in Width x 3 channels (Red, Green, Blue) x Height.

SAE J1994

Performance testing for electrically operated reversing alarms primarily intended for use on off-road, self-propelled construction and industrial machines.

SD Card

Small portable memory card to store digital data.

Sounder unit

Unit which produces the sound of an alarm.

TV Lines

Number of horizontal lines used to create an image.

USB port

Communication connection between electronic devices i.e. to download data from mobile digital recorder.

Viewing angles (camera)

The maximum angle of vision.

Viewing angles (monitor)

The maximum angle at which an image can be successfully viewed. Measured from the centre point on the monitor.

Watt

A measure of the power needed to drive a product.

warranties

PEACE OF MIND FROM BRIGADE

The quality of our product range is the cornerstone on which the continuing relationship with our customers is built. To reflect our confidence in the reliability of our products, some have a lifetime warranty. Many others have a 3 year warranty and the rest have a 2 or 1 year warranty. The following quick reference chart indicates the warranty available on Brigade products.



Lifetime Warranty (covers the alarm for the life of the vehicle)

bbs-tek® reversing alarms (all models featured in this catalogue)
Self-adjusting Backalarms (SA range)



3 Year Warranty

Elite CMS range (all monitors and cameras with a BE prefix)
MDR digital recorder



2 Year Warranty

All other products.



1 Year Warranty

Essential camera monitor system.
EDR digital recorder

Warranty Terms and Conditions

Brigade warrants all goods to be free from defect in material and workmanship in normal use provided that they have been installed and operated in accordance with the instructions supplied. The commencement date of all warranties is the date of delivery to the purchaser unless otherwise agreed in writing by Brigade. The period during which the warranty applies is stated above. Brigade make no other warranty, express or implied, with respect to the goods, their marketability, quality or fitness for any particular use or purpose. In particular, but without prejudice to the general provisions of the conditions of sale, no responsibility is assumed for incidental or consequential loss by reason of any warranty express or implied. Full details of Brigade's Terms and Conditions are contained in the Price List.

Brigade Electronics Group Plc reserves the right to change terms, conditions and specifications shown in this catalogue at any time.

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