

You're safer with us

Our Products







Cero lives lost in collisions with commercial vehicles and mobile machinery

It's a big challenge but we are on a mission to deliver this vision.

Brigade is at the pinnacle of commercial vehicle and mobile machinery blind-spot safety. A founder and innovator of sensing and monitoring systems that have helped save lives for over forty years.

While our portfolio may be emulated, our commitment to vehicle safety, our reliable, trusted products and our dedicated team of experts, cannot. We invest in people as well as technology. Everyone in the Brigade family understands the life-changing significance of the products and service we provide and the importance of outstanding systems that work in the most demanding of situations. For the future: We will continue to inform and work with policy makers and industries to ensure blind-spot mitigation is effective. We will recruit the highest calibre people who are passionate about what we do. We will impart expert knowledge and advice to help customers with their challenges. We will always seek to innovate and bring new products to market that help prevent collisions and save lives. We will strive to achieve our vision of zero lives lost by constantly improving the safe operation of commercial vehicles and mobile machinery around the world.

- Brigade Electronics Group Plc management systems are certified to ISO9001:2015
- Our principal manufacturing facilities are certified to IATS16949:2016
- · All applicable products have CE-marking in Europe and FCC/IC approval in North America
- The majority of our products comply with UN ECE Regulation 10 (EMC)
- Combinations of our camera monitor systems are certified to Regulation 46
- Cables are UNECE R118 compliant
- Our products comply with REACH and RoHS





Contents



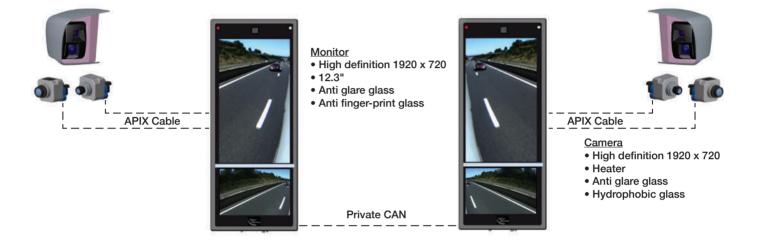
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Backeye®eMirrors Mirror replacement system



For a driver, being able to see blind spots around the vehicle is a necessity. Using a camera monitor system for visibility instead of mirrors can offer many benefits.

Replace conventional Class II and Class IV mirrors with high-definition externally mounted side-view cameras and a pair of high definition (HD) monitors typically mounted on the A-frame inside the cab. Installation is best carried out at or by a vehicle manufacturer or bodybuilder.



Monitor features:

- High Definition (HD)
- Screen layout can be configured to replicate the replaced mirror positions
- Built-in light sensor for automatic screen brightness
- Monitors are linked via a private CAN network for auto-screen balance/ brightness and system operating data
- Anti glare and fingerprint glass ensures the image is always clear
- Distance markers

Camera features:

- High Definition (HD)
- Two cameras per side/housing (Class II and Class IV or Class V)
- Cameras mounted in housing, behind heated, anti-glare, hydrophobic treated glass
- Optional integrated lens cleaning with pressurized air or water.





Certification:

- UN ECE Regulation No 46 (R46), regarding devices for indirect vision and their installation. Only camera monitor systems with R46 approval may be installed in place of a compulsory mirror.
- ISO 16505
- · ISO 26262

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Why install a camera monitor system in place of mirrors?

Wider viewing angle

A camera has a wide viewing angle which allows the driver to see more than the minimum required field of view. A driver does not need to physically move to view a broader area as would be necessary with a conventional mirror.

• No damage to mirrors and improved aerodynamics Because of their size and the distance they protrude, mirrors are prone to being hit and broken. A smaller, flush-mounted camera reduces the risk of damage, lowering maintenance costs and vehicle downtime. Replacing mirrors with cameras also improves aerodynamics which contributes to lower fuel consumption.

No glare and reduced light reflection

Low sun and headlights can be dazzling for drivers, creating glare and making it difficult or impossible to define objects in mirrors. A camera system automatically adjusts to the lighting, significantly reducing glare and therefore improving driver visibility by displaying a clear image on the monitor.

Better visibility at night

Night time visibility is one of the key advantages a camera system has over a conventional mirror. Low-light (low lux) capability and auto-image enhancement mean greatly improved visibility in low light conditions and a clear image on the monitor, even in almost total darkness.

Better visibility in the rain

Mirrors are challenging to use in the rain. Not only does the driver need to see the vehicle and surroundings in the mirror, but through an equally wet and sometimes misted window. Water and dirt obscure the view, hugely reducing driver visibility. The camera aperture will focus through water on the lens, maintaining visibility in any type of environment or weather condition. A heated camera also helps to keep the lens free from moisture.





Backeye®360 360° Camera Monitor System

How it works

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

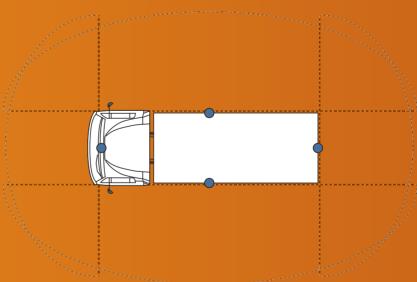
360° technology works with four ultra wide-angle cameras, each covering one full side of the vehicle with a viewing angle of over 180°.

High-mounted on the front, rear and sides, the calibrated cameras capture all of the surrounding area including the blind spots of the vehicle or machine.

The four live images are simultaneously sent to an electronic control unit (ECU) where they are instantly processed, combined, blended, and stitched.

The distortion from the wide-angle camera lens is also corrected so that a clear, real-time view of all around the vehicle is provided to the driver in a single image on the monitor.

Backeye®360 will work on most vehicles and machines, large or small. Our expert team of Applications Engineers can advise on installation to everything from a van to a 200 ton dump truck, including rigid and articulated trucks and buses, wheel loader, excavators, lift trucks, straddle carriers and many others.



Backeye®360

Model

NEW AHD 360° CAMERA SYSTEM



BN360-300 - High Definition Backeye®360 system

Part No: HD

5800



• IP69K cameras

- 12-24Vdc
- Size (WxHxD) ECU 178 x 113 x 26mm 7 x 4.4 x 1 inches
- Size (WxHxD) Camera 61 x 50 x 42mm 2.4 x 2 x 1.7 inches
- 5 year warranty

AHD

• 1 x ECU

- 1 x ECU
 4 x ENDG
- 4 x BN360-1000C cameras
 1 x Video output cable to connect to SELECT range monitor
- 1 x set-up/view-select button
- 1 x ECU power harness
- 1 x ECU interface/video input harness

Features

- 720p HD 360° image
- 15 different view modes (10 x landscape & 5 x portrait configuations)
- Front & rear crossing-traffic
- Customisable vehicle position
- 2 pre-defined configuration groups
 Configura & outtomics act up via P
- Configure & customise set up via PC calibration software
- Left, right, reverse & speed signal triggers
- Configurable on-screen parking markers
- Customisable overlay guidelines per
- camera view
- 2 x video outputs
- Ultra-wide viewing angle cameras
- (HxV) 182° x 118° • 1/4" CMOS sensor
- Video output: AHD 1.0 and NTSC

HD

6114

4649

NEW BN360-300 CABLES

BN360-H320	HD 20m/66' camera cable	5809
BN360-H315	HD 15m/49' camera cable	5810
BN360-H310	HD 10m/33' camera cable	5811
BN360-H305	HD 5m/16' camera cable	5812
BN360-H3025	HD 2.5m/8' camera cable	5813

NEW BN360-300 360° CAMERA MONITOR SYSTEMS HD

Complete 360 AHD camera monitor system for large rigid vehicles



SE-770H-300 - 360 AHD camera system with VBV-770HM - 7" AHD monitor

• 1 x VBV-770HM AHD Monitor

- 1 x BN360-300 AHD 360 system
- . _.....
- 1 x BN360-H310 10m/33' camera cable
- · 2 x BN360-H315 15m/49' camera cables
- 1 x BN360-H320 20m/66' camera cable
- See individual products for detailed specifications and warranties
- BN360-200/BN360-300 MOUNTING BRACKETS BN360-100C-BKT01 Adaptable mounting bracket
- Can be shaped to allow installation on non-vertical surfaces

 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

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Power

- Power consumption: 15 Watts
- Current: 1.22 Amps

Durability & Standards

- Mechanical vibration: 8.5G
- Mechanical shock: 51G
 - Operating temperature:
 - -30 to +75°C / -22 to +167°F • IP30 FCU
- CE marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- IC Approved
- ISO 20653:2006
- ISO 13766-1:2018

NOTES:

- Calibration kit is required for installation.
- Monitor and camera extension cables not included
- Individual cameras not recordable on MDR - monitor output only.

BRIGADE

Model



BN360-200 - Backeye®360 system

360° CAMERA SYSTEM

- IP69K cameras
- · 12-24Vdc
- · Size (WxHxD) ECU 174 x 101 x 30mm 6.9 x 4 x 1.2 inches
- Size (WxHxD) Camera 61 x 46 x 36mm 2 x 1.8 x 1.4 inches
- 5 year warranty

MDR R46

• 1 x ECU • 4 x BN360-100C cameras

Contents

- 1 x Video output cable to connect to SELECT range monitor. • 1 x set-up/view-select button
- IR receiver & remote control
- 1 x ECU power harness
- 1 x ECU interface harness

Features

- 360° image
- 19 different view modes (max 10 views per chosen configuration group) includina:
- Landscape or portrait configuations
- Front & rear crossing-traffic
- Left & right lane changing assist
- Customisable vehicle position
- 4 pre-defined configuration groups
- Configure & customise set up via
- monitor and IR remote control
- Left, right, reverse & speed signal triggers · Configurable on-screen parking markers
- 3 x video outputs
- Ultra-wide viewing angle cameras (HxV) 185° x142°
- 1/3.7" CMOS sensor
- TV system: NTSC or PAL via switch on ECU (cameras NTSC only)

- Power
 - Power consumption: 8 Watts • Current: 0.65 Amps

Durability & Standards

- Mechanical vibration: 8.5G Mechanical shock: 51G
- Operating temperature:
- -30 to +75°C / -22 to +167°F
- IP30 ECU CE marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- IC Approved
- ISO 20653:2006
- ISO 13766.2006
- EN 13309:2010
- *Camera monitor system R46 approved

NOTES:

- · calibration kit is required for installation.
- Monitor and camera extension cables not included





BN360-200 CABLES AND ADAPTERS

BN360-L120	20m/66' camera cable	4493
BN360-L115	15m/49' camera cable	4495
BN360-L110	10m/33' camera cable	4496
BN360-L105	5m/16' camera cable	4498
BN360-L1025	2.5m/8' camera cable	4499
AC-305	Splitter cable for MDR (1 required per camera)	4903

BN360-200 REQUIREMENTS FOR ARTICULATED VEHICLES

BN360-Enclosure	IP66 Enclosure kit to enable ECU to be installed	4723
	on outside of vehicle	
SK-15-05	Articulated vehicle cable kit for BN360-200 (3-camera)	5066

BN360-200 360° CAMERA MONITOR SYSTEMS

Complete 360 camera monitor system for large rigid vehicles

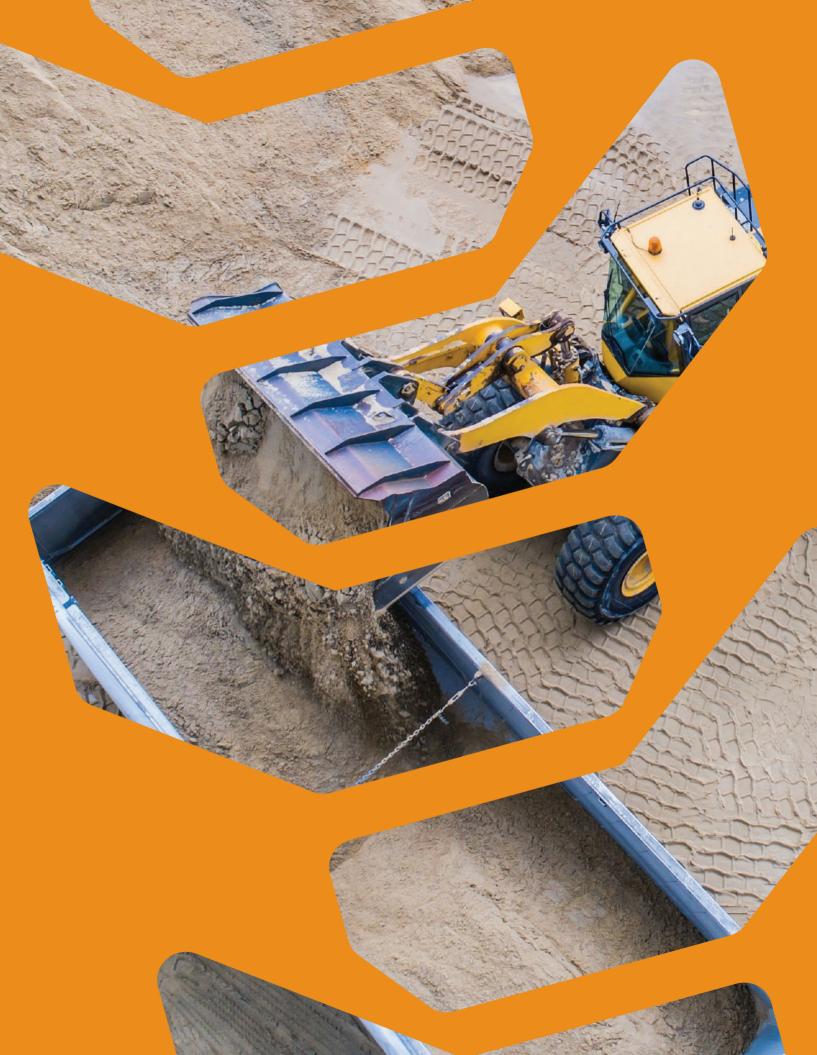


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5200

Part No:





Backeye® Camera Monitor Systems

A Winning Range

Camera monitor systems are used in a wide range of on and off-road applications to meet a host of health and safety and legislative requirements.

Brigade's camera monitor systems enable drivers and operators to maneuver and drive safely. Vehicle-mounted cameras can help the driver to see blind spots by delivering a live feed on the monitor of everything in the camera view, including people or obstacles.

Whether you need an entry-level reversing camera or full-vehicle camera system, we can help. With singleto-multiple camera inputs and auto-triggers, Brigade cameras and monitors will work on any application in any industry.

Brigade's camera monitor systems are compatible with its range of Mobile Digital Recorders (MDR).

ELITE

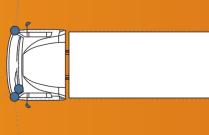
Top of the range systems that are the first choice for Original Equipment Manufacturers (OEMs) and Bodybuilders. Exceptional quality and consistent performance in the harshest conditions. Rigorously tested to higher standards, the superior components and build quality are reflected in the Elite series' 5 year warranty. Ideal for heavy duty applications including semi-trucks, on/off-highway vehicles, agricultural machinery, and mobile mobile machinery used on Construction, Civil Engineering, Quarry and Mine sites.

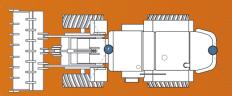
SELECT

High quality, reliable, best-selling mid-range systems. First choice in the Aftermarket and popular also with OEMs and Bodybuilders. 3 year warranty. Ideal for medium to large on-highway vehicles and smaller off-highway mobile machinery.

ESSENTIAL

Entry level reversing solution for cost-conscious Aftermarket customers. Ideally suited for on-highway applications.





Camera/monitor compatibility

	\checkmark	= Compatible		MOM	NITORS	
	·	·	EL	ITE	SELE	СТ
	AC-035	Compatible with adapter(s) shownNot compatible	BE-970WFM BE-970WM BE-865DDM BE-870LM BE-870FM	BE-856GM	VBV-7104FM VBV-770FM VBV-770M VBV-750M	VBV-770M-S VBV-750M-S
S	ITE	BE-810C Shutter	\checkmark	✓ SC-1000-ECU	✔AC-007 & SC-1000-ECU	×
ERA	EL	All other Elite cameras	\checkmark	\checkmark	✔ AC-007	✓ AC-007
CAMERAS	SELECT	VBV-711C Shutter	✔ AC-035 & AC-006	✔ AC-035 & AC-006	✔ AC-035	\checkmark
C	SEL	All other Select cameras	✔ AC-006	✔ AC-006	\checkmark	\checkmark



Camera icons

000		(Black = solid/pins)
000 LED 000	Infrared LEDs for ultra-low-light performance	
÷.	Day/night sensor	Male connector Select
<)))	Audio	Female connector Select
<u>ش</u>	Heater	Male screw fit connector Elite
	Normal/mirror view	
WDR	Wide Dynamic Range	Female screw fit connector Elite
DWDR	Digital Wide Dynamic Range	Male push fit connector Elite
		Female push fit connector Elite
	Monitor icons	Male shutter connector Select
4	Number of camera inputs	
{5} }	Number of auto-triggers	Female shutter connector Select
⊲)))	Audio	Male Backeye®360 connector
8	'Button-lock' anti-tamper feature	Female Backeye®360 connector
\mathbb{Z}	On-screen distance and vertical line markers	
	Normal/mirror view - switching from menu	

Cable icons

BRIGADE

ELITE

Model

7" IP69K MONITOR

BE-970WM - Waterproof 7" Digital LCD monitor

0 + 8 ~





• 12-24Vdc

- IP69K
- Size (WxHxD)
 194 x 124 x 48mm
 7.6 x 4.9 x 1.9 inches

• 5 year warranty





Features2 Camera inputsShutter camera of

- Shutter camera compatible both inputs
 Backlit touch screen button panel
- 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 consumption: 11 Watts

Current: 0.9 Amps

Durability & Standards

- Aluminium die-cast casing
- Mechanical vibration: 20G
- Mechanical shock: 100G
- Operating temperature: -40 to +70°C / -40 to +158°F
- CE marked
- E-Marked: UNECE R10 compliant
- ISO 16750
- ISO 13766: 2006 • HALT tested
- HALI lested

7" IP69K QUAD MONITOR

BE-970WFM - Waterproof 7" Quad digital LCD monitor

- 12-24Vdc
- · IP69K
- 11 0510

7.0

- Size (WxHxD)
 194 x 124 x 48mm
- 7.6 x 4.9 x 1.9 inches

5 year warranty

Plus additional in-built image options





- 4 camera inputs
 - Shutter camera compatible (inputs 1&2)
 - 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

Features

- Audio
- Speed switch trigger to turn monitor on/off or trigger a split screen
- 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

ELITE

3560

Current: max 2.15 Amps

Durability & Standards

- Aluminium die-cast casing
- Mechanical vibration: 10G
- Mechanical shock: 100G
- Operating temperature:
- -40 to +75°C / -40 to +167°F
- CE marked
- E-Marked: UNECE R10 compliant
- ISO 16750
- ISO 20653: 2006
- HALT tested

Part No:

3351

Elite Monitors / Cameras

Model

7" QUAD MONITOR

BE-870FM - 7" Digital LCD monitor

Features

Audio

• Sun shield

Features

off delays

Audio

• Sun shield

Multi-lingual menus

Picture Quality

LED backlighting

Anti-glare screen

Auto-switching PAL / NTSC

(gives 20,000 hours life)

2 Camera inputs

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

4 camera inputs

Shutter camera compatible

'Button-lock' anti-tamper feature

• Mirror / Normal switching from menu

Side 70° x Top 50° x Bottom 70°

• Shutter camera compatible - both inputs

2 Auto-triggers with configurable trigger-

On-screen distance and vertical line markers

• Mirror / Normal switching from menu

Auto-dimmer and keypad illumination

· 'Button-lock' anti tamper feature

On-screen distance & vertical line markers

• 5 Auto-triggers

· 12-24Vdc

- Size (WxHxD)
- 197 x 135 x 30mm 7.8 x 5.3 x 1.2 inches

5 year warranty



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7.0 "
4) 🔅 <)) 🔒

 Contrast ratio: 500:1 • Brightness: 4000cd/m² Viewing angles: Plus additional in-built image options

7" MONITOR

BE-870LM - 7" Digital LCD monitor

· 12-24Vdc

· Size (WxHxD) 197 x 128 x 34mm 7.8 x 5 x 1.3 inches

5 year warranty

7.0"



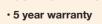


5.6" MONITOR

BE-856GM - 5.6" Digital LCD monitor

ന്ന

- · 12-24Vdc
- Size (WxHxD) 172 x 115 x 32mm 6.8 x 4.5 x 1.2 inches





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markers Audio Sun shield

Features

• 2 camera inputs

2 Auto-triggers

- Auto-dimmer
- Multi-lingual menus
- Auto-switching PAL / NTSC

Mirror / Normal switching from menu

On-screen distance & vertical line

Picture Quality

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

Power

Power consumption: 21 Watts

ELITE

Current: 1.9 Amps

Durability & Standards

- Mechanical vibration: 6G
- Mechanical shock: 100G
- Operating temperature:
- CE marked
- E-Marked: UNECE R10 compliant
- HALT tested

- -40 to +70°C / -40 to +158°F

- ELITE
 - 2705

Part No:

2146

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

Power

- Power consumption: 12 Watts
- Current: 1 Amp

Durability & Standards

- Mechanical vibration: 2.5G
- Mechanical shock: 51G
- Operating temperature: -30 to +70°C / -22 to +158°F
- CE marked
- E-Marked: UNECE R10 compliant • *Camera monitor system R46 approved

ELITE

3756

- 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 +70°C / -40 to +158°F • CE marked
- E-Marked: UNECE R10 compliant
- ISO 13766: 2006
- ISO 16750
- HALT tested

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16





What is WDR?

Wide Dynamic Range (WDR) automatically balances lighting in a camera image for improved detail in highlights and shadows.

This is particularly useful when working in environments where lighting quickly changes, for example; reversing into a dark loading bay on a sunny day. The transition from bright light to shadow will cause cameras that do not feature WDR to fail to pick up fine details. Areas of the picture will be bright and other areas extremely dark.

WDR Cameras balance lighting so no areas are under or over exposed, improving clarity and detail in the image.



Standard camera





WDR camera



ELITE

Part No:

5278

5280

Model

CAMERA WITH DWDR

- BE-901C Integrated fisheye correction
- BE-991C Integrated fisheye correction No audio
- Viewing angle (HxVxD) 100 X 65 X 106°
- IP69K/IP68
- Size (WxHxD)
 86 x 72 x 80mm
 3.4 x 2.8 x 3.2 inches

5 year warranty

₩ 🔆 C)) 🖑 DWDR

Features

- Intergrated image correction for wide viewing angle (fisheye) lens distortion
 Digital Wide Dynamic Range for
- improved detail in shadows and highlights
- 5 Infrared LEDs for ultra-low light performance
- Day / Night sensor
- Heater
- Microphone (BE-900C & BE-901C)
 Mirror / Normal view
- Mirror / Normal view
 Automatic white balance
- Sonv CMOS sensor
- TV lines: 350

Power

- Power consumption: 4.5 Watts
- Current: 0.36 Amps

Durability & Standards

- Mechanical vibration: 8.5G
- Mechanical shock: 51G
- Operating temperature: -40 to +70°C / -40 to +158°F
- CE marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- ISO 20653:2006
- ISO 16750-4

Elite Cameras / Cables

Model

CAMERA WITH WDR

- **BE-801C** - NTSC
- BE-801C(40) - Narrow viewing angle: 32 x 24 x 41°
- BE-801C(78)
 - Narrow viewing angle: 69 x 51 x 92° - Waterproof to IP69K, No microphone
- **BE-891C**
- Viewing angle (HxVxD) 108 x 80 x 136° NTSC
- IP68
- Size (WxHxD) 86 x 72 x 80mm 3.3 x 2.8 x 3.1 inches
- 5 year warranty

\$\$\$\$\$ 🔆 <>>) ₩ 🗸 📐 R46 WDR

Features

- Wide Dynamic Range for improved detail in shadows and highlights
- 5 Infrared LEDs for ultra-low light performance
- Day / Night sensor
- Heater
- Microphone
- Mirror / Normal view
- Automatic white balance
- Sony CMOS sensor • TV lines: 600

Power

• Power consumption: 4.5 Watts

Part No:

1905

2085C

2084C

5426

2002

5100

ELITE

 Current: 0.33 Amps (0.37 - 2.63 Amps BE-850C)

Durability & Standards

- Mechanical vibration: 8.5G
- Mechanical shock: 51G
- Operating temperature: -40 to +85°C / -40 to +185°F CE marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- IC Approved
- ISO 13766:2006
- ISO 20653:2006 • EN13309:2010
- *Camera monitor system R46 approved BE-800C, BE-890C & BE-850C only

ELITE

MINI CAMERA

BE-821C - Mini camera (mirror image) NTSC BE-823C - Mini camera (normal image) NTSC

- Viewing angle (HxVxD) 113 x 90 x 136°
- IP68
- Size (WxHxD)
- 47 x 40 x 50mm 1.8 x 1.6 x 1.7 inches
- 5 year warrranty

Features

- Backlight compensation
- Automatic white balance
- 1/4" Sony CCD
- TV System: NTSC • TV Lines: 600

Power

- Power consumption: 0.9 Watts
- Current: 0.1 Amps

Durability & Standards

Mechanical vibration: 10G

• Mechanical shock: 100G

- Operating temperature:
- -40 to +80°C / -40 to +176°F • CE marked
- E-Marked: UNECE R10 compliant
- FCC approved (NTSC models only) • IC approved (NTSC models only)
- HALT tested
- ISO 20653:2006

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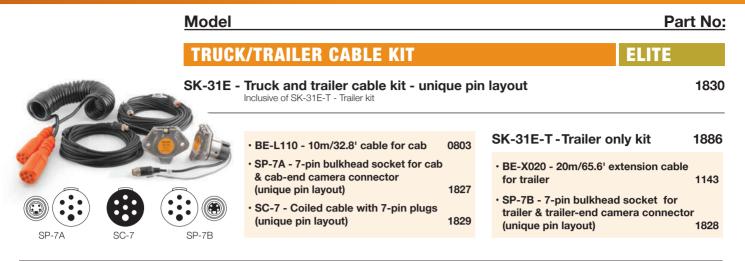


Model		Part I	No:
CAMER	A TO MONITOR CABLES	ELITE	
BE-L130	- 30m / 98' cable	0	800
BE-L120	- 20m / 66' cable	0	801
BE-L115	- 15m / 49' cable	0	802
BE-L112	- 12m / 39' cable	3	800
BE-L110	- 10m / 33' cable	0	803
BE-L108	- 8m / 26' cable	3	007
BE-L105	- 5m / 16' cable	0	804
 BE-L101	- 1m / 3.3' cable	5	042
BE-L1003	- 0.3m / 1' cable	2	797

	ELITE CAMERA EXTENSION CABLES	ELITE
	BE-X025 - 25m / 82' extension cable	1907
Jul W	BE-X020 - 20m / 66' extension cable	1143
	BE-X015 - 15m / 49' extension cable	2101
	BE-X010 - 10m / 33' extension cable	2100
2	BE-X005 - 5m / 16' extension cable	2099
))	BE-X003 - 3m / 10' extension cable	0805



Elite Cables



TRUCK	/TRAILER CABLE KIT		ELITE	
	Truck and trailer cable kit Inclusive of SK-30E-T - Trailer kit			1144
	• BE-L110 - 10m/32.8' cable for cab	0803	SK-30E-T - Trailer only kit	1885
	SP-07C - 7-pin bulkhead socket for cab & cab-end camera connector	1140	BE-X020 - 20m/65.6' extension cable for trailer	1143
SP-07C SC-07 SP-07T	SC-07 - Coiled cable with 7-pin plugs	1046	SP-07T - 7-pin bulkhead socket for trailer & trailer-end camera connected	or 1142



ELITE

3997

Model Part No: **TRUCK/TRAILER CABLE KIT** ELITE SK-15-01 - Truck and trailer cable kit for three cameras 3427 · SP-15A-01 - 15-pin bulkhead · SP-15B-01 - 15-pin bulkhead socket for cab & 3 cab-end socket for trailer & 3 camera connectors 3423 trailer-end camera connectors 3422 · SC-15-01 - Coiled shielded cable with 15-pin plugs 3268 SP-15A-01 SC-15-01 SP-15B-01

TRUCK/TRAILER CABLE KIT



SK-15-04 - Truck and trailer cable kit for single camera & single buzzer ultrasonic detection system

 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 Cables

Model

Part No:

1570

ELITE

TRUCK/DRAWBAR TRAILER CABLE KIT

SK-50E - Truck and drawbar trailer cable kit for two cameras

1879



- unique pin layout Inclusive of SK-50E-A Truck kit and SK-31E-T trailer kit

SK-50E-A - Truck only kit

- BE-L115 15m/49.2' cable for truck 0802
 BE-X005 5m/16.4' extension cable for truck camera 2099
- CS-020 Two way camera selector 1571
- SP-7A 7-pin bulkhead socket for trailer & trailer-end camera connector (unique pin layout) 1827
- SC-7 Coiled cable with 7-pin plugs (unique pin layout) 1829

SK-31E-T - Trailer only kit 1886

- BE-X020 20m/65.6' extension cable for trailer camera 1143
- SP-7B 7-pin bulkhead socket for cab & cab-end camera connector (unique pin layout) 1828

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What is AHD?

An Analogue High Definition (AHD) camera monitor system is an analogue system that supports High Definition video resolutions. The resolution of HD & AHD systems is measured in pixels per square inch (p). AHD 1.0 supports 720p HD resolution and AHD 2.0 supports 1080p HD resolution.

What about PAL and NTSC formats?

HD cameras operating at 25Hz (25frames per second) are compatible with PAL format (so we call them PAL). HD cameras operating at 30Hz (30 frames per second) are compatible with NTSC format (so we call them NTSC).

What should I consider when choosing between AHD and traditional CVBS systems?

There are many factors to consider when choosing between AHD and traditional CVBS, including compatibility with other systems and bandwidth/memory capacity if connecting to a mobile digital recorder. (AHD systems will use more bandwidth for transmission and will take up more memory for the same time period). For the best HD quality results, all parts of the system should be AHD.



AHD camera image



Traditional CVBS camera image

Compatibility with existing traditional CVBS systems:

- Brigade HD cables can be used instead of traditional CVBS cables for all Brigade SELECT camera monitor systems.
- Brigade HD cameras can be used with our MDR-500 series Mobile Digital Recorders (MDR).
- Brigade's traditional CVBS cameras can be used with our new HD monitors (camera image will not be HD).
- Brigade's traditional CVBS monitors are not compatible with HD cameras.

Model

Part No:

SELECT

NEW AHD 7" MONITOR



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Select AHD

Model

NEW



AHD CAMERA 1080p

VBV-7101C - High definition (1080p-NTSC)

- VBV-7191C No audio. High definition (1080p-NTSC)
- Viewing angle (HxVxD) 110° x 60° x 127°
- IP69K
- · Size (WxHxD) 81 x 77 x 70mm 3.2 x 3 x 2.75 inches

3 year warranty

000

Features

- 4 high-power Infrared LEDs for ultra-low light performance
- Day / Night sensor Microphone
- Mirror view
- * Backlight compensation
- Automatic white balance
- Sony CMOS 1/3" & Nextchip ISP
- TV System: AHD 1.0 (1080p)
- TV Lines: 800

Power consumption: 3 Watts

SELECT

• Current: 0.2 Amps

Durability & Standards

- Mechanical vibration: 8.5G
- Mechanical shock: 51G
- Operating temperature: -30 to +80°C / -4 to +176°F
- CE marked

Power

• E-Marked: UNECE R10 compliant

SELECT

- FCC approved
- IC approved

AHD CAMERA 720p NEW



VBV-7001C - High definition (720p-NTSC) VBV-7091C - No audio. IP69K High definition (720p-NTSC)

- Viewing angle (HxVxD) 107° x 64° x 126°
- IP67
- · Size (WxHxD) 81 x 77 x 70mm

3.2 x 3 x 2.75 inches

3 year warranty



Features

- 4 high-power Infrared LEDs for ultra-low light performance
- · Day / Night sensor
- Microphone
- Mirror view
- * Backlight compensation
- Automatic white balance
- Sony CMOS 1/3" & Nextchip ISP
- TV System: AHD 1.0 (720p)
- TV Lines: 600

Power

- Power consumption: 3 Watts
- Current: 0.2 Amps

Durability & Standards

- Mechanical vibration: 8.5G
- Mechanical shock: 51G
- Operating temperature: -30 to +80°C / -4 to +176°F
- CE marked
- E-Marked: UNECE R10 compliant
- FCC approved
- IC approved

Part No:

5467

5471

5465

5469



SELECT

Power

• Power consumption: 1.5 Watts

-30 to +70°C / -22 to +158°F

• E-Marked: UNECE R10 compliant

Durability & Standards

Mechanical vibration: 8.5G

Mechanical shock: 51G

• Operating temperature:

• CE marked

• FCC approved

• Current consumption: 0.16 Amps

Part No:

5455

5457

4596

5303

5304

Model







NEW AHD EYEBALL CAMERA

- VBV-3001C High Definition Flush-mount eyeball camera Mirror view - (720p-NTSC)
- VBV-3021C High Definition Flush-mount eyeball camera Normal view - (720p-NTSC)

Features

Microphone

light performance

Day / Night sensor

• 5 high power infrared LEDs for ultra-low

• Lens swivel adjustment: 26° (Top) x

4° (Bottom) x 4° (Left) x 4° (Right)

• Lens rotation adjustment: ±180°

Backlight compensation

• Automatic white balance

• TV System: AHD 1.0 (720p)

• 1/3" Sony CMOS

• TV lines: 600

- Viewing angle (HxVxD) VBV-3001C / VBV-3021C: 127° x 71° x 142°)
- IP69K
- · Size (WxHxD) 57 x 42 x 70mm 2.2 x 1.7 x 2.8 inches
- · 3 year warranty

AHD

OPTIONAL EXTRAS

SM-3XX-25 Surface mounting adapter (25mm deep)

AHD MINI CAMERA

Viewing angle (HxVxD)

68 x 38 x 80°

· Size (WxHxD)

43 x 45 x 37.5mm

3 year warranty

1.7 x 1.8 x 1.5 inches

AHD

• IP30

DMC-1031 - High definition mini camera (internal use) (720p-30fps) DMC-1035 - High definition mini camera (internal use) (720p-25fps)

Features

- Mirror / Normal view
- Backlight compensation
- Automatic white balance
- CMOS 1/3" ON-Semi ISP Nextchip
- TV System: AHD 1.0 (720p)
- TV Lines: 900
- Operating temperature: -30 to +85°C / -22 to +185°FC • CE marked

• Power consumption: 1.0 Watt

Durability & Standards

• Mechanical vibration: 10G

Mechanical shock: 51G

Current: 0.55 Amps

- E-Marked: UNECE R10 compliant
- FCC approved
- IC approved

Power

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25

SELECT

Select AHD

Model







- (SW) 150° x 85° x 180° (W) 93° x 51° x 110°
- IP68
 - · Size (Diameter x H) 76 x 59.5 mm 3 x 2.3 inches

AHD

3 year warranty

- Features • Dome camera with 150° movement
- range in all directions · Can be used internally or externally
- Mirror / Normal view
- · Backlight compensation
- Automatic white balance
- CMOS 1/3" ON-Semi ISP Nextchip
- TV System: AHD 1.0 (720p)
- TV Lines: 900
- TV Lines: 600 (SW & W)

Power

- Power consumption: 1 Watt
- Current: 0.57 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock 51G
- Operating temperature: -30 to +85°C / -22 to +185°F
- CE marked
- E-Marked: UNECE R10 compliant

SELECT

- FCC Approved
- IC Approved



UPTIONAL EXTRAS	
MD-50SM-30 - Surface mounting adapter (30mm/1.2" deep)	5003
MD-50AM-15 - Angled surface mounting adapter (adds 15°)	5004
MD-50AM-25 - Angled surface mounting adapter (adds 25°)	5005

AHD CAMERA CABLES NEW



VBV-H420	- 20m / 66' cable
VBV-H415	- 15m / 49' cable
VBV-H410	- 10m / 33' cable
VBV-H405	- 5m /16' cable
VBV-H4025	- 2.5m / 8' cable

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26

Part No:

5738

5690

5698

SELECT

BRIGADE

SELECT

Model







VBV-7104FM - 10.4" Digital LCD Monitor

10.4" QUAD MONITOR

- 12-24Vdc
- Size (WxHxD) 267 x 193 x 30mm
- 10.5 x 7.6 x 1.2 inches

3 year warranty

10.4"

4〕 袋 (1)) 倍



Plus additional in-built image options

Features

- 4 camera inputs
- 'Button-lock' anti-tamper feature
- 5 Auto-triggers
- Configurable trigger delayMirror / Normal switching from menu
- On-screen distance markers
- Built-in speaker
- Sun shield
- Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

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

Power Power

- Power consumption: 31 Watts
 Current: 2.8 Amps
- **Durability & Standards**
- Mechanical vibration: 4G
- Mechanical shock: 50G
- Operating temperature:
- -20 to +70°C / -4 to +158°F • CE marked
- E-Marked: UNECE R10 compliant

SELECT

4288

4697

HALT tested

7" MONITOR



VBV-770M - 7" Digital LCD monitor

VBV-770M-S - 7" Digital LCD monitor

Includes 1 x 5-pin input for connection to VBV-710C shutter camera

Also available in High Definition model

• 3 camera inputs

• 3 Auto-triggers

- 12-24Vdc
- Size (WxHxD) 196 x 118 x 26mm
- 7.7 x 4.6 x 1 inches

· 3 year warranty





Mirror / Normal switching from menu 'Button lock' anti-tamper feature

Features

- On-screen distance markers
- Audio
- Sun shield
- Auto-dimmer
- Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting
 (a) and 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°

Durability & Standards Mechanical vibration: 4G

Power

Mechanical shock: 100G

Current: 1.5 Amps

• Operating temperature: -30 to +70°C / -4 to +158°F

• Power consumption: 18 Watts

- CE marked
- E-Marked: UNECE R10 compliant
- HALT tested

27

Part No:

4474

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Select Monitors

Model



5" MONITOR

VBV-750M -5" Digital LCD monitor

5" Digital LCD monitor VBV-750M-S -

Includes 1 x 5-pin input for connection to VBV-710C shutter camera

• 3 camera inputs

• 3 Auto-triggers

Mirror / Normal switching from menu

On-screen distance markers

• Auto-switching PAL / NTSC

• 'Button lock' anti-tamper feature

Features

Audio

Sun shield

Auto-dimmer

Multi-lingual menus

Picture Quality • LED backlighting (gives 20,000 hours life)

- · 12-24Vdc
- Size (WxHxD) 149.5 x 99 x 22mm

· 3 year warranty



5.9 x 3.9 x 0.8 inches



- 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

Part No:

4287

4710

SELECT

Current: 0.95 Amps

Durability & Standards

- Mechanical vibration: 4G
- Mechanical shock: 100G
- Operating temperature:
- -30 to +70°C / -4 to +158°F
- CE marked
- E-Marked: UNECE R10 compliant

SELECT

HALT tested

7" QUAD MONITOR

VBV-770FM - 7" Digital LCD monitor 4982 Features Power • 12-24Vdc • 4 camera inputs • Power consumption: 27 watts · 'Button-lock' anti-tamper feature Current: 2.2 Amps Size (WxHxD) • 5 Auto-triggers 182 x 122 x 27mm **Durability & Standards** Mirror / Normal switching from menu 7.2 x 4.8 x 1 inch • Mechanical vibration: 4G On-screen distance markers • Mechanical shock: 50G • Audio 3 year warranty • Operating temperature: Sun shield -30 to +70°C / -4 to +158°F Multi-lingual menus 7.0 CE marked Auto-switching PAL / NTSC • E-Marked: UNECE R10 compliant **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° Plus additional in-built image options

CAMERA MONITOR SYSTEM ANCILLARIES



BMM-019-ARM - 68mm/2.7" replacement arm (Select range)

3348

SELECT

· 68mm/2.7" mounting bracket arm

· Allows montor to be dash-mounted in portrait position

A further range of camera/monitor brackets and mounting adapters is available. Please contact us for details

28



Model



VBV-701C - NTSC

86 x 72 x 122°

Size (WxHxD)

81 x 77 x 70mm

3 year warranty

\$\$\$\$: (↓)

3.2 x 3 x 2.8 inches

· ID67

Viewing angle (HxVxD)

CAMERA

VBV-791C - Waterproof to IP69K, no audio NTSC

Also available in High Definition (720p & 1080p) models

Features

- 4 high-power Infrared LEDs for ultra-low light performance
- Day / Night sensor
- Microphone
- Mirror view
- * Backlight compensation
- Automatic white balance
- 1/3" Sharp CCD
- TV Lines: 750

• Power consumption: 3 Watts Current: 0.2 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock: 51G
- Operating temperature: -30 to +70°C / -22 to +158°F
- CE marked • E-Marked: UNECE R10 compliant
- FCC approved

SELECT

2808

HALT tested

Power

SHUTTER CAMERA

98 x 73 x 108°

· IP68 / IP69K

Size (WxHxD)

122 x 85 x 82mm

4.8 x 3.3 x 3.2 inches

VBV-711C - Shutter camera

Direct connection to VBV-770M-S and VBV-750M-S monitors via 5-pin 10m (VBV-L510) or 20m (VBV-L520) camera cable.

- Features Viewing angle (HxVxD)
 - 4 high power infrared LEDs for ultra-low light performance
 - Day / Night sensor
 - Automatic Shutter

 - Backlight compensation
 - Automatic white balance

 - TV System: PAL

Power

• Max Power consumption: 6 Watts Max Current: 0.5 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock: 50G
- Operating temperature: -30 to +70°C / -22 to +158°F
- CE Marked
- E-Marked: UNECE R10 compliant





 3 year warranty 000 LED

- Heater
- Microphone
- Mirror / Normal view
- 1/3" Sharp CCD
 - TV Lines: 580

SELECT

2575 2842

Part No:

Select Cameras

Model





VBV-301C - Flush-mount eyeball camera - Mirror view - NTSC VBV-321C - Flush-mount eyeball camera - Normal view - NTSC

Also available in High Definition (720p) models

 Viewing angle (HxVxD) 111 x 80 x 153°

EYEBALL CAMERA

- IP69K
- · Size (WxHxD) 57 x 42 x 70mm 2.2 x 1.7 x 2.8 inches
- 3 year warranty

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OPTIONAL EXTRAS

SM-3XX-25 Surface mounting adapter (25mm/82" deep)

4596

2843

SELECT

CYLINDER CAMERA

VBV-481C - Cylinder camera NTSC

 Viewing angle (HxVxD) 96 x 71 x 126°

IP69K/IP68

 Size (Diameter x Length) 35 x 50mm 1.4 x 2 inches



Features

- 9 LEDs for ultra-low light performance
- Day/night sensor
- Auto white balance
- 1/3" Sharp CCD
- TV Lines: 800

3 vear warrantv



- Mirror view
- Backlight compensation

• Power consumption: 1.9 Watts Current: 0.2 Amps

Power

Durability & Standards

- Mechanical vibration: 10G
 - Mechanical shock: 50G
 - Operating Temperature:
 - -30 to +70°C / -22 to +158°F • E-Marked: UNECE R10 compliant
 - CE marked
 - FCC approved VBV-481C only
 - IC approved VBV-481C only

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SELECT

5213

5217

Power

- 5 high power infrared LEDs for ultra-low
- Lens swivel adjustment: 26° (Top) x
- Lens rotation adjustment: ±180°
- Backlight compensation
- Automatic white balance
- 1/3" Sharp CCD
- TV System: NTSC
- TV lines: 600
- light performance
 - - 4° (Bottom) x 4° (Left) x 4° (Right)
 - Microphone

Features

Day / Night sensor

- Power consumption: 2.3 Watts
- Current consumption: 0.16 Amps

Durability & Standards • Mechanical vibration: 8.5G

-30 to +70°C / -22 to +158°F

• E-Marked: UNECE R10 compliant

Mechanical shock: 51G

• Operating temperature:

CE marked

FCC approved



SELECT

Part No:

5736

5686

5694

Model



- Dome Camera NTSC **MD-51**

MD-51(SW) - Dome Camera - Superwide view angle NTSC MD-51(W) - Dome Camera - Wide view angle - NTSC

Also available in High Definition (720p) models

 Viewing angle (HxVxD) (SW) 150° x 85° x 180°

DOME CAMERA

- (W) 93° x 51° x 110°
- IP68
- Size (Diameter x H) 76 x 59.5 mm
- 3 x 2.3 inches
- 3 year warranty

Features

- Dome camera with 150° movement range in all directions
- Can be used internally or externally Mirror / Normal view
- · Backlight compensation
- Automatic white balance
- CMOS 1/3" ON-Semi ISP Nextchip
- TV System: NTSC
- TV Lines: 600

Power

• Power consumption: 1 Watt Current: 0.57 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock 51G
- Operating temperature:
- -30 to +85°C / -22 to +185°F • CE marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- IC Approved



OPTIONAL EXTRAS

MD-50SM-30 - Surface mounting adapter (30mm/1.2" deep) 5003 5004 MD-50AM-15 - Angled surface mounting adapter (adds 15°) 5005 MD-50AM-25 - Angled surface mounting adapter (adds 25°)

MINI CAMERA

DMC-1021 - Mini camera (internal use) NTSC

Also available in High Definition (720p) models

- Viewing angle (HxVxD) 68 x 38 x 80°
- IP30
- Size (WxHxD) 43 x 45 x 37.5mm

3 year warranty

1.7 x 1.8 x 1.5 inches

- Mirror / Normal view
- Backlight compensation
- Automatic white balance
- CMOS 1/3" ON-Semi ISP Nextchip

SELECT

5715

- Power
- Power consumption: 1.0 Watt
- Current: 0.55 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock: 51G
- Operating temperature: -30 to +60°C / -22 to +140°F
- CE marked • E-Marked: UNECE R10 compliant
- FCC approved
- IC approved

Features

- TV System: NTSC
- TV Lines: 600

Select Cameras

Model

SELECT CAMERA CABLES

VBV-L430 - 30m / 98' cable	2108
VBV-L420 - 20m / 66' cable	1380
VBV-L415 - 15m / 49' cable	3150
VBV-L412 - 12m / 39' cable	3106
VBV-L410 - 10m / 33' cable	1386
VBV-L407 - 7m / 23' cable	3151
VBV-L406 - 6m / 20' cable	3152
VBV-L405 - 5m /16' cable	1499
VBV-L403 - 3m / 10' cable	4977
VBV-L4025 - 2.5m / 8' cable	1554
VBV-L520 - 20m / 66' 5-pin shutter camera cable	3664
VBV-L510 - 10m / 33' 5-pin shutter camera cable	3663
VBV-L505 - 5m / 16' 5-pin shutter camera cable	4001

Part No:

SELECT





SELECT

Model

Part No:

TRUCK/TRAILER CABLE KIT

SK-15-05 - Truck and trailer cable kit for 3-camera Backeye®360

5066



 SP-15A-05 - 15-pin bulkhead socket
for cab & cab-end connector plus 3x
connections for Backeye®360 Select 5064

 SP-15B-05 - 15-pin bulkhead socket for trailer & trailer-end connector plus 3x connections for Backeye®360 Select 5065 SC-15-01 - Coiled shielded cable with 15-pin plugs 3268

TRUCK/ DRAWBAR TRAILER CABLE KIT

SELECT

	VSK-50E	SK-50E - Truck and drawbar trailer cable kit for two cameras Inclusive of VSK-50E-A Truck kit and VSK-30E-T Trailer kit			2540
		VSK-50E-A - Truck only kit	2541	VSK-30E-T - Trailer only kit	2542
134000		• VBV-L420 - 20m/66' cable for truck	1380	• VBV-L420 - 20m/66' cable for trailer	1380
		 VBV-L405 - 5m/16' camera cable for truck camera 	1499	VSP-47B - 7-pin camera bulkhead socket for trailer	1846
		• VCS-020 - Two-way camera selector	r 1844		
		 1 x VSP-47A - 7-pin camera bulkhea socket for truck rear 	ad 1847		
VSP-47A SC-07-24S	VSP-47B	SC-07-24S - Coiled cable with 7-pin sockets	1227		

TRUCK/DRAWBAR TRAILER CABLE KIT

SELECT

VSK-505E - Truck and drawbar trailer cable kit for two Select shutter cameras 4005



• VBV-L420 - 20m/66' cable for truck	1380
VBV-L520 - 20m/66' camera cable for truck camera	3664
VBV-L505 - 5m/16' camera cable for cab	4001
• VCS-020 - Two-way camera selector	1844
 2 x AC-035 - 5-pin to 4-pin shutter camera adapter 	3702

 VSP-57A - 7-Pin bulkead socket for cab & cab-end camera connector 	3869
 VSP-57B - 7-pin bulkhead socket for trailer & trailer-end camera connector 	or 3870
 SC-07-24S - Coiled cable with 7-pin plugs 	1227

Select Cables

Model

Part No:

SELECT

TRUCK/TRAILER CABLE KIT

VSK-31E - Truck and trailer cable kit - unique pin layout Inclusive of VSK-31E-T - Trailer kit

2539

1983



VBV-L410 - 10m/33' cable for cab 1386 SP-7A - 7-pin bulkhead socket for

cab & cab-end camera connector (unique pin layout)

· AC-014 - Adapter cable

· SC-7 - Coiled cable with 7-pin plugs 1829 (unique pin layout)

VSK-31E-T - Trailer only kit 2543

- VBV-L420 20m/66' cable for trailer 1380
- · AC-006 Adapter cable
- · SP-7B 7-pin bulkhead socket for trailer & trailer-end camera connector 1828 (unique pin layout)

TRUCK	/TRAILER CABLE KIT		SELECT	
VSK-30E	- Truck and trailer cable kit Inclusive of SK-30E-T - Trailer only kit			2538
VSP-47A	 VSP-47A - 7-pin bulkhead socket for cab & cab-end camera connector SC-07-24S - Coiled cable with 	1386 1847 1227	 VSK-30E-T - Trailer only kit VBV-L420 - 20m/66' extension cable for trailer VSP-47B - 7-pin bulkhead socket for trailer & trailer-end camera connector 	

TRUCK/TRAILER CABLE KIT

SELECT

C.		VSK-30	
~		-	
VSP-57A	SC-07-24S	VSP-57B	

305E - Truck and trailer cable kit for Select shutter camera

3871 · VBV-L510 - 10m/33' cable for cab 3663 · VSP-57B - 7-pin bulkhead socket for VBV-L520 - 20m/66' cable for trailer 3664

1827

2094

- · VSP-57A 7-pin bulkhead socket for cab & cab-end camera connector 3869
- trailer & trailer-end camera connector 3870 · SC-07-24S - Coiled cable with type 24S 7-pin plugs 1227

BRIGADE



OPTIONAL EXTRA

Add VBV-301C (low mount) or VBV-321C (high mount) side view camera + VBV-L405 (5m/16' cable) to spot cyclists.



Select/Essential Kits

Model

Part No:

SELECT

CAMERA MONITOR SYSTEMS

VBV-770-311 - Single flush-mount camera monitor system for small rigid and vans 4783









ESSENTIAL MONITOR

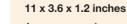


36



VBV-243M - 4.3" Digital Mirror monitor

- 12-24Vdc
- Size (WxDxH) 280 x 92 x 30.5mm



1 year warranty



Features

• On screen milti-lingual display menu

- Digital LCD panel
- 2 Auto-trigger Auto dimmer
- Illuminated keypad
- On-screen distance markers
- TV system: PAL / NTSC

Picture Quality

- Resolution: 480 x 272
- Contrast ratio: 600:1
- Brightness: 1000cd/m² • Viewing angles:
- Side 65° x Top 60° x Bottom 50°

Power

• Power consumption: 6.6 Watts • Current: 0.53 Amps

Durability & Standards

- Vibration rating: 6G • Operating temperature: -20 to +70°C / -4 to +158°F
- CE marked
- FCC approved

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5323

ESSENTIAL

BRIGADE

Model

NEW CAMERA MONITOR SYSTEM

VBV-671-000 - NTSC Camera monitor system







Camera Viewing angle (HxVxD) 89 x 65 x 114° IP67

- Camera Size (WxHxD) 76 x 59 x52mm 3 x 2.3 x 2 inches
- Monitor Size (WxHxD) 205 x 126 x 26mm 8 x 5 x 1 inches

1 year warranty

7.0

• 1 x VBV-670M monitor

- 1 x monitor sunshield
 - 1 x monitor bracket
 - 1 x VBV-63XC camera
 - 1 x 20m VBV-L4020 extension cable
 - Fitting kit

Camera Features

- Normal view1/3" PixelPlus CMOS
- TV Lines: 425

Monitor Features

- 2 camera inputs 1 auto trigger
- Sun shield
- Sun sniela
 Multi lingual ma
- Multi-lingual menusNormal/Mirror via OSD menu



Picture Quality

Power

Contrast ratio: 500:1

• Current: 0.4 Amps

Mechanical vibration:

• Brightness: 250 cd/m²

• Monitor viewing angles:

Monitor resolution: 800x400

Side 70° x Top 45° Bottom 65°

Power consumption: 4.2 Watts

Durability & Standards

Camera: 8.5G Monitor: 4G • Operating temperature:

5817

5773

4766

ESSENTIAL

VBV-631C - Essential Camera - NTSC

VBV-L4020 - 20m/66" Essential extension cable

TO CONNECT AN ADDITIONAL CAMERA

CAMERA MONITOR SYSTEM

O 44 Billionse B





VBV-650-000N - NTSC Single-camera monitor system

- Camera Viewing angle (HxVxD)
 81 x 59 x 108°
- IP67
- Camera Size (WxHxD)
 65 x 59 x 55mm
 2.5 x 2.3 x 2 inches
- Monitor Size (WxHxD) 150 x 99 x 31mm
- 6 x 4 x 1.2 inches

1 year warranty

5.0" 1

Contents

- 1 x VBV-670M monitor
- 1 x monitor bracket
- 1 x VBV-621C camera
- 1 x 20m VBV-L4020 extension cable
- Fitting kit

Camera Features

- Mirror view
- CMOS
- TV Lines: 420

Monitor Features

• 1 camera input

Picture Quality

- Monitor resolution: 640x480
- Monitor viewing angles: Side 70° x Top 50° Bottom 70°
- Power

Power consumption: 2 Watts

Durability & Standards

• Operating temperature: -30 to +70°C / -4 to +158°F



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Part No:

5816

ESSENTIAL

Adapter Cables

Moo	del	Pa	art No:
BR	IGADE CA	MERA MONITOR ADAPTERS	
	AC-006	- Connects Select camera (not shutter) to Elite cable	1983
	AC-007	- Connects Select monitor to Elite cable	1984
	AC-014	- Connects Elite camera to Select cable	2094
	e AC-014(5M) - Connects Elite camera to Select cable, 5m/16.4' long	5049
	::) AC-020	- Connects Elite monitor to Select cable	2590
	AC-035	- 5-pin to 4-pin Select shutter camera adapter	3702
	AC-055 (5M) - 5-pin to 4-pin Select cable, 5m long	4267
S (3)	AC-305	- Splitter cable connects 1 x BN360-200 camera to MDR & EC	U 4903
	AC-306	- Splitter cable connects 1 x (Non HD) Select camera to MDR & monitor	4904
	AC-307	- Splitter cable connects 1 x Elite camera to MDR & Monitor	4905

MISC	ELLANEOUS CAMERA MONITOR ADAPTERS	
	AC-056 - Connects Select camera to Orlaco monitor	4401
	AC-062 - Connects Elite camera to Orlaco monitor	4691
	AC-063 - Connects Elite camera to Orlaco monitor, screw fit	4925
	AC-066 - Connects Orlaco camera to Elite monitor	5027
	AC-067 - Connects Orlaco camera to Select monitor	5028
	AC-24-12(009) - In-line 24/12Vdc converter - Select camera to Mekra 507405 monitor	4926
	AC-308 - Splitter cable to connect MDR to Mekra 507405 CMS	4949

BRIGADE

Model		Part No:
OEM	CAMERA MONITOR ADAPTERS	
	AC-041 - Connects Elite camera to John Deere 7-pin amp outp	out 4245
	AC-042 - Connects Select camera to John Deere 7-pin amp ou	itput 4246
	AC-044 - Connects Select camera to Molex M12 (Fendt)	4279
	AC-045 - Connects Elite camera to Molex M12 (Fendt)	4280
	AC-068 - Connects Select camera to MAN Harman unit with camera prep	5234
	AC-069 - Connects Select camera to MAN/Scania Harman unit without camera prep	t 5318
	AC-24-12(002) - In-line 24/12Vdc converter - Elite camera to Mercedes monitor	4266
	AC-24-12(004) - In-line 24/12Vdc converter - Select camera to MAN MMT HSD	4281
	AC-24-12(006) - In-line 24/12Vdc converter - Select camera to Volvo FH(4) & FM(4)	4719
	AC-24-12(007) - In-line 24/12Vdc converter - Select camera to Iveco connect system	4762
	AC-24-12(008) - In-line 24/12Vdc converter - Select camera to Mercedes Sprinter	4763

A further range of OEM-specific adapters to connect Brigade cameras to factory-fit monitors is available

GENERAL CAMERA MONITOR ADAPTERS	
AC-016 - Connects AV to Camera input of Elite monitor	2150
AC-019 - Connects Elite camera to male phono (video only)	2589
AC-021 - Connects BNC/FLIR PathFindIR camera to Elite cable	2704
(video & audio input, 12Vdc output)	3183
AC-028 - Connects AV to Select cable	3335
AC-064 - Connects Elite camera to BNC adapter cable	4948

Ancillaries

Model



Elite

Select

DIGITAL WIRELESS CONNECTION SYSTEM

DW-1001-TX - Digital Wireless Transmitter DW-1001-RX - Digital Wireless Receiver

Part No:

4282

4283

- Digital technology
- 12-24Vdc
- 1 camera input
- IP69K (Transmitter)
- Size (WxHxD) 113 x 114 x 31mm 4.4 x 4.5 x 1.2 inches

3 year warranty

Features

- Image Latency: 200 milliseconds No need for retractable coiled cables.
- Reduces installation time
- Re-pair facility allows for interchangeable trailers
- Triggered by reverse gear
- TV System: NTSC
- Secure connection

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 +70°C / -40 to +158°F
- Mechanical vibration: 6G
- Mechanical shock: 20G
- CE marked
- E-Marked: UNECE R10 compliant

Includes connectors/adapters for both Elite and Select range cameras and monitors. Not AHD compatible

CAMERA MONITOR SYSTEM ANCILLARIES



- CS-020 Two-way camera selector (Elite range connectors) 1571 VCS-020 - Two-way camera selector (Select range connectors) 1844

Not AHD compatible

4851

LS-60-A - Speed switch

· 12-24Vdc

- Auto-triggers safety equipment at the designated speed
- Size (WxHxD) 44 x 16 x 64mm 1.7 x 0.6 x 2.5 inches
- 2 year warranty

Features

- Normally closed safety device on by default, turning off at designated speed
- 10 speed threshold settings
- Compact size
- Easy to install and set up
 - Short circuit protection on camera inputs
- Reverse polarity protected
- - CE marked
 - E-Marked: UNECE R10 compliant

Notes:

- · A relay is required if connected to a

 Allows a 2nd camera to be connected to a monitor · 2nd camera view selected by trigger wire · Full screen view only 2 year warranty **CAMERA MONITOR SYSTEM ANCILLARIES**



Power

- Power consumption: 21.6 Watts
- Max current: 1.8 Amps

• Switch Output max. current: 1.2 Amps

Durability & Standards

• Mechanical vibration: 10G

• Mechanical shock: 50G • Operating temperature:

-40 to +85°C / -40 to +185°F

- device that is higher than 1.2 Amps
- Not compatible with HD systems

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GADE

Model

• 12-24Vdc

· 2 camera inputs

147 x 37 x 78mm

2 year warranty

Single

5.7 x 1.5 x 3 inches

Split

Size (WxHxD)

SELEC1



SS-002 - Twin camera screen splitter (Select range connectors)

Features

CAMERA MONITOR SYSTEM ANCILLARIES

3044

2152

Part No:

Power

Power Consumption: 8.4 Watts

• Current: 0.7 Amps

Durability & Standards

- Mechanical vibration: 10G
- Mechanical shock: 50G
- Operating temperature: -30 to +70°C / -22 to +158°F
- FCC approved
- IC approved

Adapter required for Elite range monitors Not AHD compatible

choose from horizontal normal/mirror or

• Short circuit protection on camera inputs

• Offers split-screen option for monitors without in-built functionality

• 3 trigger inputs per camera

adapters (Elite - AC-035)

(Select - TS-1000-ECU)

• Reverse polarity protected

EDM-50 - Multi-camera module and screen splitter (Elite range connectors)

• TV System: NTSC

vertical normal/flip

Shutter camera compatible with

Manual Mirror/Normal switching -

- CE marked
- E-Marked: UNECE R10 compliant

CAMERA MONITOR SYSTEM ANCILLARIES

In-built image

options



• 12-24Vdc

- 4 camera inputs
- Size (WxHxD)
- 154 x 28 x 105mm 6 x 1.1 x 4.1 inches

2 year warranty

Single Split Triple Quad Picture picture Plus additional in-built image options

Features

- Shutter camera compatible (inputs 1,2&3) · 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
- · Adapter required for Select range monitors

Power

- Power consumption: 20 Watts
- Current: 2 Amps

ELITE

Durability & Standards

- Mechanical vibration: 5G
- Operating temperature:
- -25 to +70°C / -13 to +158°F • CE marked
- E-Marked: UNECE R10 compliant

Not AHD compatible

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MDR Mobile Digital Recording

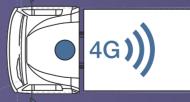
Providing your witness

Brigade's Mobile Digital Recording (MDR) systems are now capable of capturing vehicle data and footage from up to 16 vehicle-mounted cameras. The MDR range includes models with 4G and WiFi connectivity capabilities, allowing data to be accessed from the recorder without having to physically go to the vehicle.

To take full advantage of the benefits of 4G connectivity, Brigade has launched Bridge, a fully managed service for 4G enabled systems so that operators do not have to set up and maintain their own servers and manage SIMs and mobile data.

New IP Cameras and Network Expansion Modules mean that up to 6 cameras can be connected to our 4-channel MDR and up to 16 cameras can be connected to our 8-channel MDR.

MDRs are compatible with all Brigade Backeye $\ensuremath{\mathbb{R}}$ camera monitor systems, including Backeye $\ensuremath{\mathbb{R}}$ 360 – BN360-200 and IP Cameras. .



BRIDGE MDR 4G Hosted Service

The MDR range includes models with 4G connectivity capabilities, allowing data to be accessed from the recorder without having to physically go to the vehicle.

To take full advantage of the benefits of 4G connectivity, Brigade has launched Bridge, a fully managed service for 4G enabled systems so that operators do not have to set up and maintain their own servers and manage SIMs and mobile data.



Benefits of having remote access to the MDR can include:

- Playback of historical footage and metadata from MDR or server Metadata includes: GPS location, speed, G-force, events and alarms.
- Vehicle tracking Includes: GPS location, speed and alarms. Dual-screen support with dedicated location map.
- Live view of vehicle cameras and metadata Metadata includes: GPS location, speed and alarms. Up to 64 cameras can be viewed from multiple MDRs on one screen.
- Download footage
 - Scheduled: one-off download to the server that will commence once vehicle is online.
 - Automatic: Pre-alarm and post-alarm footage (e.g. 30 seconds) will automatically save to the server.
 - Manual: Download historical footage from the MDR to local storage.
- Geo-fencing Easily set up geographical boundaries to know when your vehicle enters and/or leaves areas.



Vehicle Tracking on MDR Dashboard PC software and MDR App

Example of 4-channel playback MDR Dashboard PC software

All Bridge packages include

- 4G connection
- Competitively-priced 12 month contract, rolling thereafter
- SIM card
- Remote access to MDR via secure cloud server
- Technical helpline and online tutorials

.......

- Access to data via MDR Apps for iOS and Android systems
- Access to data via MDR Dashboard PC software: Windows OS required (minimum Windows 7)

For further information, visit brigade-electronics.com/bridge

At the time of print, 4G Hosted Services only available in selected countries.



Model

Part No:

MOBILE DIGITAL RECORDER

	MDR-508-2000 MDR-508-1000	 8 channel 2TB hard disk recorder 8 channel 1TB hard disk recorder 	5577 5126
Ð		 8 channel 2TB hard disk recorder with WiFi and 4G 8 channel 1TB hard disk recorder with WiFi and 4G 	5556 5127
D	MDR-508G-2000 MDR-508G-1000	 8 channel 2TB hard disk recorder with 4G 8 channel 1TB hard disk recorder with 4G 	5550 5539
)	MDR-508W-2000 MDR-508W-1000	- 8 channel 2TB hard disk recorder with WiFi - 8 channel 1TB hard disk recorder with WiFi	5579 5129



MDR-508GW-2000	- 8 channel 2TB hard disk recorder with WiFi and 4G	555
MDR-508GW-1000	- 8 channel 1TB hard disk recorder with WiFi and 4G	512
MDR-508G-2000	- 8 channel 2TB hard disk recorder with 4G	555
MDR-508G-1000	- 8 channel 1TB hard disk recorder with 4G	553
MDR-508W-2000	- 8 channel 2TB hard disk recorder with WiFi	557
MDR-508W-1000	- 8 channel 1TB hard disk recorder with WiFi	512

• 9-32Vdc

- 8 camera inputs -Supports AHD High definition cameras
- 8 trigger/alarm inputs
- Lockable and interchangeable Hard Drive
- Unit
- · Fast, easily downloadable recordings and data
- Size (WxHxD) 224 x 85 x 221mm 8.8 x 3.3 x 8.7 inches
- 3 year warranty

Main Contents

- Mobile Digital Recorder with 2.5" SATA HDD caddy unit
- Wired Mouse
- 64Gb industrial grade Class 10 SD card Input / Output Cable
- Power Cable
- GPS Antenna
- 4G Antenna (G and GW models) • Wi-Fi Antenna (W and GW models)
- USB A to B Cable (3.0)
- Security Key
- Bracket and Fixings
- Features
 - Remotely access MDR units using wireless (WiFi models only) and/or Mobile network (4G models only)
 - Mobile apps for remote view (WiFi/4G models only)
 - Geo-fencing (WiFi/4G models only)
 - Mobile Standards: 2G/3G/4G
 - Audio (cameras must have microphones)
 - Robust aluminum housing
 - · Anti-vibration mounting allows for
 - installation at any angle • Built-in GPS

 - Internal G-sensor and built-in buzzer · Recordings saved to hard disk (protected by non-visible digital
 - watermark) and in-built Mirror recording onto 64Gb SD card • Recording modes: normal, alarm and
 - timer (all watermarked) Configurable alarm trigger settings
 - (speed, G-force, motion detection, video loss. voltage)
 - · Record images prior to alarm activation and after vehicle switched off

- MDR-Dashboard (full player) and MDR-Player (portable) with Google and MS Bing maps (English only)
- · Search by date, time or triggered events
- Multi-level password protected access
- Hard drive unit directly pluggable to PC via USB port
- 8 x trigger Inputs, 2x trigger outputs and 1x12V power output Built-in HDD heater
- MDR Control using USB Mouse or
- optional IR remote control • USB 3.0 connection
- TV System: PAL/NTSC/AHD
- Compatible with Brigade's vehicle CCTV camera monitor systems, IP cameras and Backeye®360 systems

Image and Audio Quality

- High quality H.264 image compression
- ADPCM audio compression
- Choice of 8 low to high resolution settinas
- · Record at between 1 and 25 frames per second, per channel

Power

- Max power consumption: 80 Watts
- Current: 6.6 Amps

Durability & Standards

- Mechanical vibration: 1G
- Mechanical shock: 51G • Operating temperature:
- -40 to +70°C / -40 to +158°F • E-Marked: UNECE R10 compliant
- CE marked
- FCC approved
- IC approved
- RoHS2 Compliant

OPTIONAL EXTRA



Expand the channel capability of the MDR with the addition of an Expansion Module and IP cameras: See pages 52-53

IP-EM4 - Expansion Module adds 4 channels to MDR-508 = 12 channels

IP-EM8 - Expansion Module adds 8 channels to MDR-508 = 16 channels

Mobile Digital Recorders

Model

Part No:

MOBILE DIGITAL RECORDER

	MDR-504-2000 MDR-504-1000	 4 channel 2TB hard disk recorder 4 channel 1TB hard disk recorder 	5563 5561
G		 4 channel 2TB hard disk recorder with WiFi and 4G 4 channel 1TB hard disk recorder with WiFi and 4G 	5554 5552
G	MDR-504G-2000 MDR-504G-1000	 4 channel 2TB hard disk recorder with 4G 4 channel 1TB hard disk recorder with 4G 	5546 5548
2	MDR-504W-2000 MDR-504W-1000	 4 channel 2TB hard disk recorder with WiFi 4 channel 1TB hard disk recorder with WiFi 	5567 5565



MDR-504GW-1000	- 4 channel 1 I B hard disk recorder w	and 4G	5552
MDR-504G-2000 MDR-504G-1000	 4 channel 2TB hard disk recorder w 4 channel 1TB hard disk recorder w 		5546 5548
MDR-504W-2000 MDR-504W-1000	 4 channel 2TB hard disk recorder w 4 channel 1TB hard disk recorder w 		5567 5565
• 9-32Vdc • 4 camera inputs - Supports AHD High	Main Contents • Mobile Digital Recorder with 2.5" SATA HDD caddy unit • Wired Mouse	 MDR-Dashboard (full player Player (portable) with Googl Bing maps (English only) Search by date, time or trigger 	e and MS

- Supports AHD High definition cameras
 - 8 trigger/alarm inputs
 - Lockable and interchangeable Hard Drive Unit
 - Fast, easily downloadable recordings and data
 - Size (WxHxD) 190 x 75 x 222mm 7.5 x 3 x 8.7 inches
 - 3 year warranty

- 32Gb industrial grade Class 10 SD card Input / Output Cable
- Power Cable
- GPS Antenna
- 4G Antenna (G and GW models)
- Wi-Fi Antenna (W and GW models)
- USB A to B Cable (3.0)
- Security Key
- Bracket and Fixings

Features

- · Remotely access MDR units using wireless (WiFi models only) and/or Mobile network (4G models only)
- · Mobile apps for remote view (WiFi/4G models only)
- · Geo-fencing (WiFi/4G models only)
- Mobile Standards: 2G/3G/4G
- Audio (cameras must have microphones)
- Robust aluminum housing
- · Anti-vibration mounting allows for
- installation at any angle Built-in GPS
- Internal G-sensor and built-in buzzer
- · Recordings saved to hard disk (protected by non-visible digital
- watermark) and in-built Mirror recording onto SD card · Recording modes: normal, alarm and
- timer (all watermarked)

- Multi-level password protected access • Hard drive unit directly pluggable to PC
- via USB port
- 8 x trigger Inputs, 2x trigger outputs and 1x12V power output
- Built-in HDD heater
- MDR Control using USB Mouse or optional IR remote control
- USB 3.0 connection
- TV System: PAL/NTSC/AHD
- · Compatible with Brigade's vehicle CCTV camera monitor systems, IP cameras and Backeye®360 systems

Image and Audio Quality

- High quality H.264 image compression
- ADPCM audio compression
- Choice of 8 low to high resolution settings
- · Record at between 1 and 25 frames per second, per channel

Power

- Max power consumption: 60 Watts
- Current: 5 Amps

Durability & Standards

- Mechanical vibration: 1G
- Mechanical shock: 51G
- Operating temperature:
- -40 to +70°C / -40 to +158°F • E-Marked: UNECE R10 compliant
- CE marked
- FCC approved
- RoHS2 Compliant

OPTIONAL EXTRA



Expand the channel capability of the MDR with the addition of an **Expansion Module and IP cameras:** See pages 52-53

IP-EM4 - Expansion Module adds 2 channels to MDR-504 = 6 channels

- (speed, G-force, motion detection, video loss, voltage) · Record images prior to alarm activation IC approved and after vehicle switched off
- · Configurable alarm trigger settings



Model





500 SERIES M	OBILE DIGITAL RECORDER ACCESSORIES	
AC-305	- Splitter cable connects 1 x Backeye®360 BN360-200 camera to MDR & ECU	4903
AC-306	- Connects 1 x Select camera to MDR and monitor	4904
AC-307	- Connects 1 x Elite camera to MDR and monitor	4905
MDR-RP01	- Remote status & interface panel with panic button	4872
MDR-06RPC	- 6m/19.7" cable for Remote status & interface panel	4873
MDR-GS-02	- External G-sensor	4988
MDR-03GSC	- 3m/9.8" G-sensor cable	4874
MDR-508GW-EXP-0	- Wi-Fi & 4G upgrade Expansion Module For MDR-508 models only. SD card not included	S5542
MDR-508G-EXP-0	- 4G upgrade Expansion Module For MDR-508 models only. SD card not included	S5543
MDR-508W-EXP-0	- Wi-Fi upgrade Expansion Module For MDR-508 models only. SD card not included	5311
MDR-500-500-MCU	- Caddy unit with 500GB HDD	5132
MDR-500-1000-MCU	- Caddy unit with 1TB HDD	5157
MDR-500-2000-MCU	- Caddy unit with 2TB HDD	5330
SD-32GB-IND	- 32GB industrial grade Class 10 SD card	4875
SD-64GB-IND	- 64GB industrial grade Class 10 SD card	4876



MDR-FPB32-01	 External SD Mirror-recorder in fireproof housing 	4896
	with 32GB industrial grade Class 10 SD card	

IP Cameras & Expansion Modules

What are IP cameras & Expansion Modules?

An Internet Protocol (IP) camera is a high-definition digital camera with its own IP address. Instead of transmitting video over a video cable to a monitor or MDR, the IP camera transmits digital video to the MDR over a data connection (ethernet cable) where the images are saved to the HDD memory.

Brigade Expansion Modules use Power Over Network (PON) Switch technology to expand the channel capability of the MDR by transmitting digital video images from IP cameras over the top of existing analogue video cables/signals. The MDR on-screen display allows easy camera set up without need for specific IP camera knowledge

Benefit: Connecting IP cameras increases the number of channels available on the MDR:

MDR-504	- 4 x Analogue channels plus 1 x IP channel	= 5 channels
MDR-504 and PON switch	- 4 x Analogue channels plus 2 x IP channels	= 6 channels
MDR-508	- 8 x Analogue channels plus 1 x IP channel	= 9 channels
MDR-508 and PON switch	- 8 x Analogue channels plus up to 8 x IP channels	= 16 channels

16 channels S X Analogue channels plus up to 8 X IP channels Model Part No:

NEW **IP CAMERA**

IP-1000C - Internal forward-facing camera



Viewing angle (HxVxD) 87 x 48 x 95°

- · IP20
- Size (WxHxD) 75 x 122 x 40mm
- 3 x 5 x 1.6 inches

3 year warranty



Features

- High-definition picture quality • Windscreen flush-mounted to avoid reflections
- Microphone
- Normal view mirror view via OSD
- settings or IP web interface
- Backlight compensation
- Automatic white balance
- Supports web browser access
- Fast setup feature in MDR 500 series to
- auto-assign camera IP address • Picture Elements: 1920(H) x 1080(V)
- Imaging device: CMOS
- TV Lines: 800

Power

- Power consumption: 2.5 Watts
- Current: 0.2 Amps

Durability & Standards

• Mechanical vibration: 4.7G

- Mechanical shock: 51G
- Operating temperature:
- -40 to +70°C / -40 to +158°F • Video output signal: H264 or H.265
- Network protocol: MDR5, ONVIF, TCP/IP, HTTP, DHCP, NTP, FTP
- CE marked
- E-Marked: UNECE R10 compliant
- FCC approved
- IC approved

Note: For use with MDR only

NEW IP CAMERA

IP-1200C - Surface-mount dome camera



48



- Viewing angle (HxVxD) 94 x 53 x 95°
- IP65
- Size (WxHxD) 102 x 55 x 96 mm 4 x 2 x 3.8 inches
- 3 vear warrantv

M

Features

- High-definition picture quality Surface mount
- Heater
- Normal view
- Backlight compensation
- Automatic white balance
- Supports web browser access
- Fast setup feature in MDR 500 series to auto-assign camera IP address
- Picture Elements: 1920(H) x 1080(V)
- Imaging device: CMOS
- TV Lines: 700

Power

• Power consumption: 3.5 Watts

- -40 to +70°C / -40 to +158°F
- Video output signal: H264 or H.265
- TCP/IP, HTTP, DHCP, NTP, FTP
- CE marked
- E-Marked: UNECE R10 compliant

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sales@msfoster.com

5937

5935

- Current: 0.3 Amps
- **Durability & Standards**
- Mechanical vibration: 4.7G
- Mechanical shock: 51G
- Operating temperature:
- Network protocol: MDR5, ONVIF,

- FCC approved
- IC approved

Note: For use with MDR only



Model

NEW IP CAMERA

IP-1100C - Surface-mount camera





- IP67
- Size (WxHxD) 96 x 52 x 58mm 3.8 x 2 x 2.3 inches

3 vear warrantv





- High-definition picture quality
- Surface mount · Built-in G-sensor for automatic image
- orientation High power infrared LED for low-light performance
- Day/night sensor
- Normal view
- Backlight compensation
- Automatic white balance
- Supports web browser access
- Fast setup feature in MDR 500 series to auto-assign camera IP address
- Imaging device: CMOS
- Picture elements: 1920 x 1080
- TV Lines: 800

- Power Power consumption: 5 Watts
- Current: 0.2 Amps

Durability & Standards

- Mechanical vibration: 8.5G
- Mechanical shock: 51G
- Operating temperature:
- -40 to +70°C / -40 to +158°F • Video output signal: H264 or H.265
- Network protocol: MDR5, ONVIF,
- TCP/IP, HTTP, DHCP, NTP, FTP
- CE marked
- E-Marked: UNECE R10 compliant
- FCC approved
- IC approved

Note: For use with MDR only

NEW IP EXPANSION MODULES



IP-EM4 - PON 4-channel switch IP-EM8 - PON 8-channel switch

· 12-24Vdc

- 4 or 8 IP camera inputs
- Size (WxHxD) IP-EM4: 149 x 44 x 127mm 6 x 1.7 x 5 inches
- IP-EM8: 174 x 54 x 129.5mm 7 x 2 x 5 inches

3 year warranty

Features

• Expands the channel capability of the MDR by enabling the addition of IP cameras.

IP-EM4 - adds 2 channels to MDR-504 IP-EM4 - adds 4 channels to MDR-508 IP-EM8 - adds 8 channels to MDR-508

IP-EM8 not compatible with MDR-504

-40 to +70°C / -40 to +158°F • CE marked • E-Marked: UNECE R10 compliant

• Power consumption: 3 Watts

Durability & Standards

• Mechanical vibration: 2.3G

Mechanical shock: 150G

• Operating temperature:

FCC approved

Power

IC approved

IP CAMERA ACCESSORIES NEW



IP-EC-1 - CAT5E Ethernet cable 1m / 3.3'	5865
IP-EC-5 - CAT5E Ethernet cable 5m / 16'	5866
IP-EM-PC - MDR-PON Power cable	5864
IP-L601 - IP Camera extension cable 1m / 3.3'	5867
IP-L603 - IP Camera extension cable 3m / 10'	5902
IP-L605 - IP Camera extension cable 5m / 16'	5903
IP-L610 - IP Camera extension cable 10m / 33'	5982
IP-L615 - IP Camera extension cable 15m / 49'	5904
IP-L620 - IP Camera extension cable 20m / 66'	5983
IP-L630 - IP Camera extension cable 30m / 98'	5984
IP-1XXX-PC - IP Power and Ethernet cable - To connect a single camera to an MDR without the PON Switch	5985

WARNING: There is a latency (time lag) in all digital video transmission, including IP Cameras. Although this time lag is small (~800ms), it is unacceptable for a camera that a driver is using as a safety and manoeuvring aid. Brigade IP cameras are an excellent choice for general monitoring (eg bus interior, doors, luggage compartment) and recording purposes, but should not be used as a driver aid for manoeuvring or blind-spot monitoring. Analogue cameras are still the best choice for safety critical manoeuvring and blind spot monitoring applications.

5936

5860

5861

Part No:





Ultrasonic Object Detection Systems

Sensor Systems

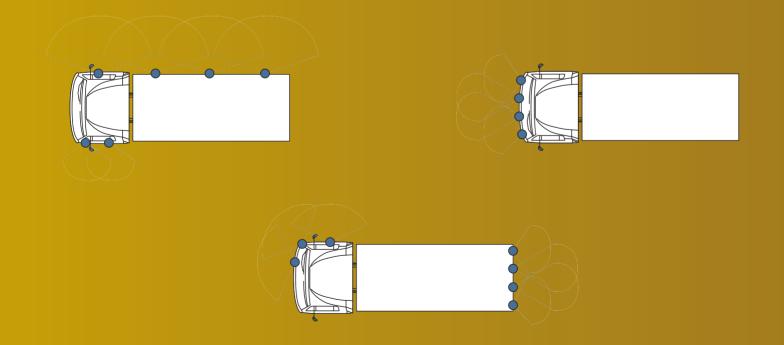
Reducing blind spots and improving driver visibility are important issues for operators of road-going vehicles. Brigade's ultrasonic detection sensors minimize both vehicle damage and collisions with pedestrians, cyclists or objects. Perfect for road-going commercial vehicles operating in confined spaces or maneuvering at low speed.

The detection system alerts the driver of objects close to the vehicle, whether moving or stationary. An in-cab warning informs of distance while an optional external speaking alarm can be added to alert cyclists and pedestrians that the vehicle is turning.

On-Screen Display

Working in conjunction with a camera monitor system and up to two ultrasonic detection systems, the on-screen display module warns the driver of obstacles close to the vehicle by overlaying 3-stage audible and visual ultrasonic data onto the camera image on the vehicle's monitor.

- Integration of Brigade's ultrasonic obstacle detection systems and camera monitor systems
- Ultrasonic detection warnings overlaid onto camera image on in-cab monitor
- Reduced driver stress and distractions as all information is in one view



Ultrasonic Detection On-Screen Display Module

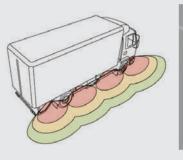


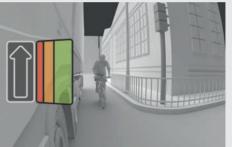
Sensor data and camera image combined

- Integration of Brigade's ultrasonic obstacle detection systems and Backeye® camera monitor systems
- Ultrasonic detection warnings overlaid onto camera image on in-cab monitor
- Reduced driver stress and distractions as all information is in one view

Brigade's ultrasonic proximity sensors minimize both vehicle damage and collisions with pedestrians, cyclists or objects. Perfect for road-going commercial vehicles operating in confined spaces or maneuvering at low speed.

Working in conjunction with a Backeye® camera monitor system and up to two ultrasonic detection systems, the on-screen display module warns the driver of obstacles close to the vehicle by overlaying 3-stage audible and visual ultrasonic data onto the camera image on the monitor.





Model

Part No:

5347

ULTRASONIC ON-SCREEN DISPLAY MODULE

UDS-OSD21-ECU - On-screen display module NTSC



- Allows 3-stage audible and visual Ultrasonic data to be overlayed onto camera image on vehicle monitor
- 12-24Vdc
- · 2 camera inputs
- 2 trigger inputs
- · 2 UDS inputs
- · 2 UDS outputs
- · 2 year warranty

Contents

- OSD ECU
- Power cable
- Splitter cable
- Trigger cable

Features

- Overlay on monitor of vehicle icon and detection data from up to 2 x ultrasonic detection systems
- Compatible with 1x Sidescan® Frontscan® and Backscan®
- UDS overlay will appear on a black background if no cameras installed
- Graphics can be overlayed left or right on the monitor
- Audible warning via monitorUltrasonic system fault
- displayed on monitor
- Compatible with MDR

- Power
- Power consumption: 1.7 Watts
- Current: 140mA

Durability & Standards

- Mechanical vibration: 5G
- Mechanical shock: 10G
- Operating temperature: --30 to +70°C +22 to +158°F
- IP30
- Dimensions (WxDxH): 74 x 118 x 28 mm 2.9 x 4.6 x 1.1 inches
- CE marked
- E-Marked: UNECE R10 compliant
- FCC ApprovedIC Approved
- Note: Not compatible with HD camera monitor systems

BRIGADE

Model

BACKSCAN® ULTRASONIC DETECTION SYSTEM

BS-4000W - Backscan® Rear reversing sensor system

3744

Part No:



- · 4 sensor system
- 12-24Vdc
- · 2.5m detection range outer sensors 2.5m/0.6m (8.2/2') (selectable via dip switch)
- · Graduated visual and audible distance warning display
- Underslung and flush-mount fixings included
- 50cm/1.2' compensation range for sensors fitted inboard of vehicle rear (selectable via dip switch)
- 3 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
- 15m/49' display cable
- 4 x 2.5m/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 100cm (3.3') of the detection zone Self-diagnostic function
- 1 x Trigger output

Power

- Power consumption:
- 2.4 Watts Current: 200mA

Durability & Standards Mechanical vibration: 5G

- Mechanical shock: 10G
- Operating temperature:
- -30 to +80°C / -22 to +176°C • Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- E-Marked: UNECE R10 compliant
- FCC approved



10	ADDITIONS I	FOR ARTICULATED VEHICLES	
	SK-15-04	Truck/trailer camera/sensor cable kit	3997
	SK-UDS-05	Truck/trailer sensor only cable kit	4219
	UDS-10BC	10m/33' Buzzer/display cable	3716
2	OPTIONAL E	XTRA	
	UDS-RELAY-24	Trigger-out diode protected relay 24Vdc	4215
	UDS-RELAY-12	Trigger-out diode protected relay 12Vdc To power a device switched by the ouptput trigger	4216

Ultrasonic Object Detection

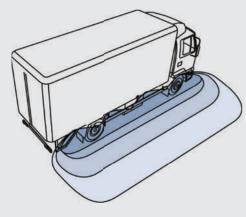
Sidescan®Flex

Flexible side detection

Sidescan®Flex is a four-sensor system fitted to the side of a vehicle to detect objects in the nearside blind spot, where cyclists or pedestrians can otherwise go undetected.

An advancement to the standard Sidescan® system, Sidescan®Flex allows the operator to choose from four detection configurations, each with different detection distances and audible and visual alerts (see table).

Sidescan® Flex has an increased maximum detection range of 2.5 metres / 8.2 feet.



NEW

Detection distance		Config 1	Config 2	Config 3	Config 4
0 - 0.6m	Beeps per second	Constant	Constant	Constant	Constant
0 - 2'	Flashes per second $\neg \bigcirc \neg$	8	8	8	8
0.6 - 0.9m	Beeps per second	Constant	4	4	4
2 - 3'	Flashes per second \overline{Q}	8	8	8	8
0.9 - 1.5m	Beeps per second	4	-	-	1
3 - 4.9'	Flashes per second $\overline{0}$	4	4	4	4
1.5 - 2.5m	Beeps per second	1	-	-	-
4.9 - 8.2'	Flashes per second \overline{Q}	1	1	-	-

Model

Part No:

5916

6075

SIDESCAN®FLEX ULTRASONIC DETECTION SYSTEM

SS-4200W -Sidescan®Flex sensor system with mute function

SS-4200W-000 - Sidescan®Flex sensor system with mute function, low speed trigger module and turn indicator sensor kit Includes LS-60-A low speed trigger module and TS-001ECU turn indicator sensor



· 4 sensor system

- 12-24Vdc
- Detection zones 0 2.5m (0 - 8.2') (4 audible/visual configuarions, selectable via dip switches)
- Underslung and flush-mount fixings included
- 1 Output trigger
- 3 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
- •10m/33' buzzer cable
- 4 x 4.5m/15' sensor cables
- 2 x 2.5m/8' extension cables

Features

- Obstacles detected in under 200 milliseconds
- Buzzer with audible distance warning, LED & adjustable volume control
- · Buzzer will silence after 4 seconds if there is no movement from detected object or vehicle
- Self-diagnostic function

• Environment Learning Mode prevents false alarms from ancillary equipment that intrudes in the first 100cm (3.3') of the detection zone

Durability & Standards

- Mechanical vibration: 5G
- Mechanical shock: 10G
- Operating temperature: -30 to +80°C / -22 to +176°C
- Waterproof sensors to IP68 Waterproof control box to
- IP69K
- CE marked
- E-Marked: UNECE R10 compliant
- FCC approved

Power

- Power consumption:
- 2.4 Watts Current: 200mA

OPTIONAL EXTRA



Trigger-out diode protected relay 24Vdc **UDS-RELAY-24** UDS-RELAY-12 Trigger-out diode protected relay 12Vdc

To power a device switched by the ouptput trigger

4215

4216

msfoster.com

BRIGADE

Part No:

5257

5344

Model

SIDESCAN® ULTRASONIC DETECTION SYSTEM

SS-4100W - Sidescan® Side sensor system with mute function SS-4100W-000 - Sidescan® Side sensor system with mute function, low speed trigger module and turn indicator sensor kit

Includes LS-60-A low speed trigger module and TS-001ECU turn indicator sensor



4 sensor system

- 12-24Vdc
- 1.0/1.5m (3.2/4.9') detection range - (selectable via dip switch)
- Audible distance warning
- Underslung and flush-mount fixings included
- 2 levels of sensitivity -(selectable via dip switch)
- · 3 year warranty

Contents

- 4 x sensors
- Buzzer
 4 x 0° flush mount fixings
- 4 x 11° flush mount fixings
- 4 x underslung fixings
- 4 x underslung lixings
 Waterproof control box
- •10m/33' buzzer cable
- 4 x 4.5m/14.7' sensor cables
- 2 x 2.5m/8.2' extension cables

Features

- Obstacles detected in under 200 milliseconds
- Buzzer with audible distance warning, LED & adjustable volume control
- Buzzer will silence after 4 seconds if there is no movement from detected object or vehicle
- Environment Learning Mode prevents false alarms from ancillary equipment that intrudes in the first 100cm of the detection zone
- Self-diagnostic function

Durability & Standards

- Mechanical vibration: 5G
- Mechanical shock: 10G
- Operating temperature: -30 to +80°C/ -22 to +176°C
- Waterproof sensors to IP68Waterproof control box to
- IP69K
- CE markedE-Marked: UNECE R10
- E-Marked, ONECE Fit
 compliant
 FCC approved

Power

- Power consumption:
- 2.4 Watts • Current: 200mA

SIDESCAN®/SIDESCAN®FLEX ADDITIONS FOR ARTICULATED VEHICLES SK-15-04 Truck/trailer camera/sensor cable kit 3997 SK-UDS-05 4219 Truck/trailer sensor only cable kit (required) **UDS-10BC** 10m/33' display cable (required) 3716 SS-4100W Additional Sidescan sensor system for cab (optional) 5257 SIDESCAN®/SIDESCAN®FLEX RECOMMENDED EXTRAS LS-60-A 4851 Low speed trigger module Enables sensors below designated speed TS-001ECU 1362 Turn indicator trigger for system activation SIDESCA ®/SIDESCAN®FLEX OPTIONAL EXTRA **SS-BC-08** Backchat speaking alarm with side turn 1334 warning for cyclists/pedestrians Note: TS-001ECU Turn indicator trigger is required TCO-47-01 Latched auto-reset Backalarm cut-out (dash mount) 4752

Ultrasonic Object Detection

Model

Part No:

FRONTSCAN® ULTRASONIC DETECTION SYSTEM

FS-4000W - Frontscan® Front sensor system

3747



- · 4 sensor system · 12-24Vdc
- · 2.0m/1.0m (6.8'/3.2') detection range outer sensors can be reduced to 0.6m (2') (selectable via dip switches)
- Audible distance warning
- Flush-mount

DECOMMENDED EVTD

3 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
- 2.5m/8' buzzer cable
- 4 x 2.5m/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 100cm

- (3.3') of the detection zone Self-diagnostic function
- 1 x Trigger output

Durability & Standards

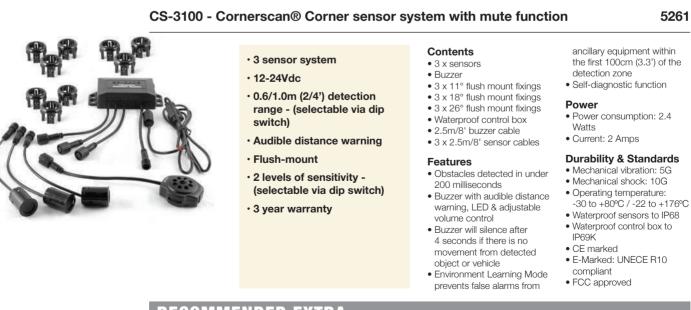
- Operating temperature: -30 to +80°C/ -22 to +176°C
- Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- E-Marked: UNECE R10 compliant

Power

- Power consumption: 2.4 Watts
- Current: 200mA

T	LS-60-A	Low speed trigger module Enables sensors below designated speed	4851					
	OPTIONAL E	XTRA						
	UDS-RELAY-24	Trigger-out diode protected relay 24Vdc	4215					
	UDS-RELAY-12	Trigger-out diode protected relay 12Vdc To power a device switched by the ouptput trigger	4216					

CORNERSCAN® ULTRASONIC DETECTION SYSTEM



RECOMMENDED EXTRA

LS-60-A

Low speed trigger module Enables sensors below designated speed

4851

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888.452.4053



Part No:

5262

5345

4851

Model

STEPSCAN™ ULTRASONIC DETECTION SYSTEM

ST-2100 -Stepscan[™] Step sensor system with mute function ST-2100-60-A - Stepscan[™] Step sensor system with mute function and low speed trigger module

Includes UDS-4.5SC 4.5m/14.7' extension cable



· 2 sensor system

- 12-24Vdc
- · 0.6/1.0m (2/3.2') detection range - (selectable via dip switch)
- Audible distance warning
- Flush-mount
- · 2 levels of sensitivity -(selectable via dip switch)
- 3 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
- 2.5m/8.2' buzzer cable
- 2 x 2.5m/8.2' sensor cables

Features

- Obstacles detected in under 200 milliseconds
- Buzzer with audible distance warning, LED & adjustable volume control
- Buzzer will silence after 4 seconds if there is no movement from detected object or vehicle
- Environment Learning Mode prevents false alarms from

ancillary equipment that intrudes in the first 100cm (3.3') of the detection zone

Self-diagnostic function

Durability & Standards

- Mechanical vibration: 5G
- Mechanical shock: 10G • Operating temperature:
- -30 to +80°C / -22 to +176°C Waterproof sensors to IP68
- Waterproof control box to IP69K
- CE marked
- E-Marked: UNECE R10 compliant
- FCC approved

Power

- Power consumption: 2.4 Watts
- Current: 200mA



RECOMMENDED EXTRA

LS-60-A Low speed trigger module Enables sensors below designated speed

EXTENSION CABLES



UDS-2.5BC - Buzzer/display extension cable 2.5m/8.2	3717
UDS-10BC - Buzzer/display extension cable 10m/33	3716
UDS-15BC - Buzzer/display extension cable 15m/49	3746
UDS-2.5SC - Sensor extension cable 2.5m/8.2	3719
UDS-4.5SC - Sensor extension cable 4.5m/14.7	3720
UDS-7.0SC - Sensor extension cable 7.0m/23	5623





Backsense[®] Radar Object Detection Systems

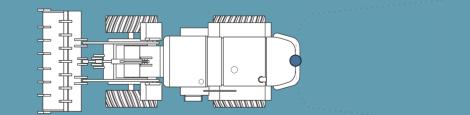
FMCW technology

Backsense® heavy-duty radar sensor systems are designed for heavy-duty machines to detect people and objects in blind spots. They detect stationary and moving objects, providing the driver with in-cab visual and audible warnings – alerting the operator whose attention cannot be focused on all danger areas.

Backsense® radar uses Frequency Modulated Continuous Wave (FMCW) technology, transmitting a continuously varying radar frequency signal with unique time stamps to each instance of the wave. The time of the returning wave is referenced to the stamp without the radar needing to pause transmitting. This gives more accurate detection than alternative radar products using Pulsed Radar technology that transmit a burst of radar and listen for the returning wave.

Radar Models

- **Backsense**® systems are available with fixed and programmable detection ranges and a programmable model with an IP69K in-cab display. Custom detection areas can be programmed to calibrate-out fixed objects or bodywork.
- Backsense® Network radar allows you to link up to eight radar sensors. The system provides object detection in CAN message format which may be processed to display data on control panels/displays on the vehicle or used to control aspects of the machine.
- Backsense® on-screen display works in conjunction with Backeye® camera monitor systems and up to two radar sensors. It warns the driver of objects in the danger zone by overlaying 5-stage audible and visual radar data onto the camera image on the monitor.



Backsense[®] Radar Object Detection

Model

Part No:



NEW IP69K PROGRAMMABLE BACKSENSE® OBJECT DETECTION SYSTEM

BS-9000-WD - Waterproof display - Programmable detection range

5713

1346 5637

4530

• 9-32Vdc

- Detection length: up to 30m/98' (minimum programmable distance 0 - 3m / 0 - 9.8')
- · Detection width: 2 to 10m / 6.6 to 33'
- Rugged design for harsh environmental conditions
- Sensor size (WxHxD) 217 x 129 x 50mm 8.5 x 5 x 1.9 inches
- Display size without bracket (WxHxD) 118 x 97 x 55 mm
- 46 x 38 x 22 inches
- IP69K sensor
- IP69K display
- 3 year warranty

OPTIONAL EXTRAS

- Contents
- 1 x BS-9000 Radar sensor • 1 x IP69K audible and visual display with
- mounting bracket
- 1 x Extension cable 9m/29.5' • 1 x Network Y Cable
- 1 x Network terminator
- 1 x Mini USB cable

Features

- · Frequency modulated continuous wave
- (FMCW) radar technology · Effectively detects stationary, moving
- and multiple objects 1 activation input
- 1 trigger output • 2nd trigger output for optional external alarm
- Programmable: Detection area Blind zones - system ignores fixed objects Trigger activation Buzzer
- 5 stage audible and visual distance warning display
- 3 set volume levels (maximum 95dB) with volume lock

- AMPS hole pattern for alternative
- mounting with industry-standard bracket · Resistant to water, moisture, dust,
- vibration, heat, cold, mud and glare

Power

 Current: 0.9 Amps • Power consumption: 8 Watts

Durability & Standards

- Mechanical shock- sensor: 100G
- Mechanical shock- display: 50G
- Mechanical vibration: 8.3G • Operating temperature:
- -40 to +85°C / -40 to +185°F CE marked
- E-Marked: UNECE R10 compliant
- BS EN 13309: 2010
- ISO13766: 2006

Configuration Software

 *Available via Brigade website or USB (purchased separately)

CT-470 - Constant tone external alarm - 102dB *BS-WD-USB - USB -programming software, port driver and operating guide

PROGRAMMABLE BACKSENSE® OBJECT DETECTION SYSTEM

BS-8000 - Standard display - Programmable detection range

• 9-32Vdc

- Detection length: up to 30m/98' (minimum programmable distance 0 - 3m / 0 - 9.8'
- Detection width: 2 to 10m/ 6.5 to 33
- Rugged design for harsh environmental conditions
- Sensor size (WxHxD) 217 x 129 x 50mm 8.5 x 5 x 1.9 inches
- Display size with bracket (WxHxD) 101 x 71 x 70mm / 4 x 2.8 x 2.7"
- IP69K sensor
- 3 year warranty

Contents

- 1 x Configurable radar sensor
- socket and mounting bracket

- · Frequency modulated continuous wave (FMCW) radar technology
- Effectively detects stationary, moving and multiple objects
- 1 activation input
- Programmable: Detection area Blind zones - system ignores fixed objects Trigger activation
- . 5 stage adjustable audible and visual distance warning display
- · Sensor resistant to water, moisture, dust.

- Power
- Current: 0.8 Amps
- Power consumption: 8 Watts

Durability & Standards

- Mechanical shock: 100G
- Mechanical vibration: 8.3G
- Operating temperature:
- -40 to +85°C /-40 to +185°F CE marked
- E-Marked: UNECE R10 compliant
- BS EN 13309: 2010
- ISO13766: 2006

- 1 x Audible and visual display with USB
- 1 x 9m/29.5' extension cable
- 1 x Mini USB cable
- 1 x Software CD

Features

- 1 trigger output
- Buzzer
- vibration, heat, cold, mud and glare



Part No:

Model



FIXED BACKSENSE® OBJECT DETECTION SYSTEMS

BS-7030 - Standard display - 3m/10' length x 2.5m/8' width detection range4527BS-7045 - Standard display - 4.5m/14.8' length x 3.5m/11' width detection range4528BS-7060 - Standard display - 6m/20' length x 4.5m/14.8' width detection range4529

• 9-32Vdc

- Maximum detection range of either 3m, 4.5m or 6m (9.8', 14.8' or 20')
- Rugged design for harsh
 environmental conditions
- Sensor size (WxHxD)
 217 x 129 x 50mm
 8.5 x 5 x 1.9 inches
- Display size with bracket (WxHxD) 101 x 71 x 70mm / 4 x 2.8 x 2.7"
- IP69K sensor
- 3 year warranty

Contents

- 1 x Non-configurable radar sensor
- 1 x Standard audible and visual display with mounting bracket
- 1 x 9m/29.5' extension cable
- Frequency modulated continuous wave (FMCW) radar technology
- Effectively detects stationary, moving and multiple objects
- 1 activation input
- 1 trigger output
- 5 stage adjustable audible and visual distance warning display
- Sensor resistant to water, moisture, dust, vibration, heat, cold, mud and glare

Power

Current: 0.8 AmpsPower consumption: 8 Watts

Durability & Standards

Mechanical shock: 100G

- Mechanical vibration: 8.3G
- Operating temperature:
- -40 to +85°C / -40 to +185°F • CE marked
- E-Marked: UNECE R10 compliant
- BS EN 13309: 2010
- ISO13766: 2006



BACKSENSE® RADAR OBJECT DETECTION ACCESSORIES

	BS-05DCX BS-09DCX	 2m/6.6' extension cable 5m/16' extension cable 9m/30' extension cable X - 25m/82' extension cable (Female end connector supplied loose) 	5272 4550 4551 4975
I	BS-00NYC	- Network Y Cable for 9000 series radar	5270
I	BS-02PIC	- Network power input cable for 9000 series radar	5271
I	BS-00NT	- 120 Ohms Network Terminator for 9000 series radar	5291
ľ	BKT-017	- Adjustable radar bracket with 105mm/4.1" depth bracket mounting arms	4676
2	BKT-018	- Low-profile adjustable radar bracket	4758

Backsense[®] Radar Object Detection

Backsense® Radar On-Screen Display

- Integration of Brigade's Backsense® radar detection and Backeye® camera monitor systems
- Up to 2 Radar detection warnings overlaid onto camera image on in-cab monitor
- Reduced driver stress and distractions as all information is in one place

Radar sensor data and camera image combined



Working in conjunction with a Backeye® camera monitor system and up to two Backsense® Network radar detection systems, the on-screen display module warns the driver of obstacles in the danger zone by overlaying 5-stage audible and visual radar data onto the camera image on the monitor.

Model

Part No:

5658

5266

5270

BACKSENSE® RADAR ON-SCREEN DISPLAY KIT



BS-9001-OSD - Radar sensor & On-screen display module

- Allows 5-stage audible and visual radar data to be
- overlaved onto camera images on in-cab monitor
- · 12-24Vdc
- Detection length: up to 30m/ 98' (minimum programmable distance 3m/9.8')
- Detection width: 2 to 10m/ 6.5 to 33'
- Sensor size (WxHxD) 217 x 129 x 50mm 8.5 x 5 x 1.9 inches
- OSD ECU size (WxHxD) 195 x 120 x 35mm 7.7 x 4.7 x 1.4 inches
- · 2 camera inputs
- · 2 BS-9000 Backsense® inputs
- 3 trigger inputs
- 3 trigger ouputs
- 3 year warranty

- Contents
- 1 x OSD Radar ECU
- 1 x BS-9000 Radar sensor • 1 x Network power cable
- 1 x Extension cable 9m/29.5
- 3 x Network Y-cable
- 2 x Network terminator

Features

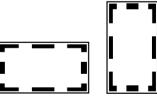
- · Frequency modulated continuous wave
- (FMCW) radar technology Overlay on monitor of detection data from up to 2 BS-9000 radar sensors
- Each radar can be shown in one of 8 positions around the monitor/vehicle
- Compatible with Backsense® BS-9000 Network radar sensors only
- Programmable: Detection area Blind zones - system ignores fixed objects Overlay transparency level
- Radar system fault displayed on monitor
- USB connection for configuaration via PC Compatible with MDR, non-HD
- Backeye®360 & Elite range camera monitor systems (Select range via adapters)
- Audible warning via monitor or optional internal buzzer
- Supports external warning alarm

Durability & Standards

- Operating temperature: -40 to +85°C / -40 to +185°F
- OSD: IP30
- CE marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- IC Approved

Configuration Software

 *Available via Brigade website or USB (purchased separately)



To not obstruct camera views, each radar can be shown in one of eight positions around the edge of the monitor

Camera monitor system not included

TO ADD AN ADDITIONAL RADAR SENSOR:

1 x BS-9000 - Network Radar sensor

- 1 x BS-00NYC Network Y Cable
- 1 x Extension cable

OPTIONAL EXTRAS

*BS-9001-USB- USB - programming software, port driver and operating guide 5656 AC-007 Adapter cable to connect a Select range monitor 1984 AC-020 - Adapter cable to connect a Select range camera 2590

msfoster.com



Backsense® CAN Radar

For OEM and specialist application markets, Brigade's Network Radar allows you to connect and link up to 8 sensors to cover large, sometimes complex blind spot zones around a vehicle or machine.

The system provides object detection in CAN (Controller Area Network) message format which may be processed to display data on control panels/displays on the vehicle or used to interact with aspects of the machine.

Each connected radar sensor is allocated a unique ID and will transmit data for up to 8 closest objects. With a detection range of up to 30m/98' length and 10m/33' width, it provides a flexible system to meet customer specific requirements.

- Provides object detection in CAN message format
- Independent CAN Bus may communicate with existing CAN network via CAN Gateway

BS-9000 - Backsense® CAN object detection radar

Separate CAN message & ID for each object detected (up to 8 per sensor)

Model

Part No:





Detection length:

Detection width:

Sensor size (WxHxD)

217 x 129 x 50mm

8.5 x 5 x 1.9 inches

up to 30m/98'

up to 10m/33'

IP69K sensor

3 year warranty

· 12-24 Vdc

Contents

• 1 x BS-9000 Radar sensor

Features

- Frequency modulated continuous wave (FMCW) radar technology
- Network up to 8 sensors
- Extremely rugged design for severe
- weather conditions and all terrainsCommunication via CAN Gateway
- Configurable CAN ID
- Complies with CAN2.0A Base Frame Format
- Separate CAN message & ID for each object detected (up to 8 closest objects per sensor

5266

Power

Current: 0.4 AmpsPower consumption; 4 Watts

Fower consumption, 4 watt

Durability & Standards

- Mechanical shock: 100G
- Operating temperature: -40 to +85°C /-40 to +185°F
- CE marked
- E-Marked: UNECE R10 compliant
- BS EN 13309: 2010
 ISO13766: 2006
- Note: For CAN message format, refer to user manual at brigade-electronics.com





Warning Alarms & Quiet Vehicle Sounder

Warning and Back Up Alarms

Vital safety devices needed to warn workers and pedestrians that a vehicle is maneuvering.

bbs-tek® white sound® are 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® alarms are endorsed by PIEK and the Noise Abatement Society and have been awarded the Quiet Mark.



bbs-tek[®] White Sound[®] Smart alarms auto-adjust to 5-10dB above ambient.

Heavy duty

For 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.

Quiet Vehicle Sounder

Designed for electric and hybrid-electric vehicles of all types, the QVS Electric Vehicle Sounder warns pedestrians and other vulnerable road users that a quiet vehicle is approaching.

Front speaker system incorporating bbs-tek® patented technology for instantly locatable and directional sound. Pitch and volume increase with vehicle speed in a similar way as an internal combustion engine. Sound cuts out above a pre-set speed threshold.



bbs-tek[®] White Sound[®] Alarms

Model

WHITE SOUND[®] SMART BACK UP ALARM

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

1400

1399

1398

Part No:



· IP68 Size (WxHxD) 172 x 79 x 95mm

6.7 x 3.1 x 3.7 inches

• 12-24Vdc

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: 153mm / 6"

Power · Current: Max 1 Amp

Durability & standards

• Mechanical vibration: 10G

- Operating temperature: -40 to +85°C / -40 to +185°F
- CE marked
- E-Marked: UNECE R10 compliant
- SAF .1994

WHITE SOUND® SMART BACK UP ALARM



- 12-24Vdc

• IP68

noise abatement so

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

· 36-80Vdc (HV)

· Size (WxHxD)

127 x 76 x 65mm 5 x 3 x 2.5 inches

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: 98-108mm / 3.8-4.2"

Power Current: Max 1 Amp

Durability & standards

• Mechanical vibration: 10G

- Operating temperature: -40 to +85°C / -40 to +185°F
- CE marked
- E-Marked: UNECE R10 compliant
- SAF .1994
- NAS/PIEK approved for night-time deliverv

WHITE SOUND® BACK UP ALARM



BBS-107 - Heavy duty - 107 Decibels BBS-102 - Heavy duty - 102 Decibels

· 12-24Vdc

• IP68



· Size (WxHxD) 172 x 79 x 95mm

6.8 x 3.1 x 3.7 inches

Lifetime warranty

Features

- Multi-frequency broadband sound Instantly locatable
- · Sound confined to danger area
- Eliminates noise nuisance
- Sounder unit: Driver
- Hole centers: 153mm / 6"
- - E-Marked: UNECE R10 compliant
 - SAE J994

WHITE SOUND® BACK UP ALARM **BBS-82HV - Electric forklift - 82 Decibels BBS-92ADR - Petrol tanker - 92 Decibels**

2165



Features

- Multi-frequency broadband sound Instantly locatable
- Sound confined to danger area
- Eliminates noise nuisance Sounder unit: Speaker
- Hole centers: 98-108mm / 3.8-4.2"
- E-Marked: UNECE R10 compliant

• Current: Max 0.3 Amps

Durability & standards

• Mechanical vibration: 10G

-40 to +85°C / -40 to +185°F

• Operating temperature:

 CE marked SAE J994

Power

msfoster.com

· 12-24Vdc

• IP68

· 36-80Vdc (HV)

Size (WxHxD)

127 x 76 x 65mm

5 x 3 x 2.5 inches

Lifetime warranty

888.452.4053

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0899

0898

• Current: Max 1 Amps

Durability & standards

- Mechanical vibration: 10G
- Operating temperature: -40 to +85°C / -40 to +185°F
- CE marked

Power



Part No:

0935

0934

0897

0896

5385

Model

WHITE SOUND® BACK UP ALARM

BBS-97 - Medium duty - 97 Decibels

BBS-92 - Medium duty - 92 Decibels

BBS-87 - Medium duty - 87 Decibels



- BBS-82 Medium duty 82 Decibels
 - · 12-24Vdc
 - · ID68
- noise abatement society



- Size (WxHxD) 105 x 65 x 37mm / 4.1 x 2.5 x 1.5 inches (BBS-97/92) 105 x 65 x 32mm / 4.1 x 2.5 x 1.3 inches (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: 76mm / 3"
- CE marked E-Marked: UNECE R10 compliant

• Operating temperature:

• Current: Max 0.5 Amps

Durability & standards

Mechanical vibration: 10G

- SAE J994

Power

 NAS/PIEK approved for night-time delivery (BBS-82 only)

-40 to +85°C / -40 to +185°F

QVS QUIET VEHICLE SOUNDER (AVAS)

QVS-001-75 - Quiet Vehicle Sounder





- · 12-24Vdc IP68 Speaker
- IP30 ECU
- Size Speaker (WxHxD) 120 x 135 x 120mm 4.7 x 5.3 x 4.7 inches
- Size ECU (WxHxD) 93 x 26 x 185mm 3.7 x 0.2 x 7.3 inches

2 year warranty



Contents

• 1 x Speaker • 1 x ECU

Features

- Warns pedestrians and other VRU's that a quiet vehicle is approaching
- Combined multi-frequency bbs-tek® technology and tonal sounds
- Multi-frequency sound - Directional and locatable - The sound is
- only heard in the hazard zone.
- · Front speaker system
- · Pitch and volume increase with vehicle speed to mimic an internal combustion engine
- Operational below speeds of 20MPH Front sounder operational when ignition activated (silenced when parking brake applied)
- Uses Tachograph speed signal**
- Sounder unit: Speaker

Power

• Current: Max 0.1 Amps

Durability & standards

Mechanical vibration: 10G

- Operating temperature: -30 to +70°C / -22 to +158°F
- CE marked
- E-Marked: UNECE R10 compliant
- FCC approved
- IC Marked
- UNECE R138 compliant*
- 49 CFR Part 571 and 585 Federal Motor Vehicle Safety Standards compliant*
- * QVS helps achieve compliance for the vehicle
- ** If your vehicle is not equipped with a Tachograph, please contact us for alternative installation methods

QVS Quiet Vehicle Sounder (AVAS)

- Warns pedestrians and other vulnerable road users that a quiet vehicle is approaching.
- Incorporating bbs-tek[®] technology - Multi-frequency, directional and instantly locatable sound which is only heard in the hazard zone.
- Front speaker system.
- Pitch and volume increase with vehicle speed in a similar way as an internal combustion engine.

- Sound fades out above a pre-set speed threshold.
- **Designed for electric and hybrid-electric** vehicles of all types.



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Speaking Alarms

Model



NIGHTSHIFT[®] SPEAKING ALARM

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

- 12-24Vdc
- IP68
- Size (WxHxD)
- 122 x 84 x 50mm 4.8 x 3.3 x 2 inches
- 2 year warranty

- FeaturesReal speech alarm
- * BC-01(NS) message "Ssh! 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: 102mm / 4"

Power

- Current: 0.5 Amps
 - **Durability & standards**
 - CE marked
 E-Marked: UNECE R10 compliant

SPEAKING ALARM

- BC-01 Single reversing message 90 Decibels0077BC-01(B) Bespoke single message 90 Decibels0079BC-02(B) Bespoke dual message 90 Decibels0083
 - 12-24Vdc
 - IP68
 - Size (WxHxD)
 122 x 84 x 50mm
 - 4.8 x 3.3 x 2 inches
 - · 2 year warranty

Features

- Real speech alarm
 BC-01 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: 102mm / 4"

Power

Current: 0.5 Amps

Durability & standards

CE marked
 E-Marked: UNECE R10 compliant



Part No:

BRIGADE

Model



2 wire version

SPEAKING HANDBRAKE WARNING ALARM

SPEAKING SIDE TURN WARNING ALARM

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

BC-01(H/Brake) - Single message - 2 wire - 90 Decibels BC-01(4W)(H/Brake) - Single message 4 wire - 90 Decibels

· 12-24Vdc

- IP68
- · Size (WxHxD)
 - 122 x 84 x 50mm 4.8 x 3.3 x 2 inches

2 vear warrantv

Features

- Real speech alarm * Message "Bleep! Handbrake not
- applied ... • Sounder unit: Speaker
- Hole centers: 102mm / 4"

Power

• Current: 0.5 Amps

Durability & standards

- CE marked
- E-Marked: UNECE R10 compliant

· 12-24Vdc • IP68

· Size (WxHxD)

122 x 84 x 50mm 4.8 x 3.3 x 2 inches

2 year warranty

Features

- Real speech alarm * Message "Ssh! Caution. Truck turning
- left..."
- Sounder unit: Speaker • Hole centers: 102mm / 4"

Power

• Current: 0.5 Amps

Durability & standards

- CE marked
- E-Marked: UNECE R10 compliant

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

0849 1715

Part No:



Part No:

0815

0875

Model



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

- 12-24Vdc
- IP68
- Size (WxHxD)
- 122 x 84 x 50mm 4.8 x 3.3 x 2 inches
- 2 year warranty

Features

- Two-way communication system
- Master unit volume control: 80-95dB • Includes master unit, slave unit and 25m
- cable Sounder unit: Speaker
- Hole centers: 102mm / 4"

Power

- Current: 0.5 Amps
- **Durability & standards**
- CE marked
- E-Marked: UNECE R10 compliant FCC Approved
- IC Approved

ALARM ANCILLARIES

VEHICLE INTERCOM

TCO-47 - Timed auto-reset reversing alarm cut-out (dash mount)

· 12-24Vdc

2 year warranty

Features

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

Durability and Standards

- CE marked • EMC approved



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ALARM ANCILLARIES

- TCO-47-01 Latched side-turn alarm cut-out (dash mount)
- 12-24Vdc

· 12-24Vdc

· 2 year warranty

· IP68

2 year warranty

Features

- Single touch timed relay Allows driver to cut-out alarm between
- the hours of 11.30pm-7.00am • Resets by switch or ignition

Durability and Standards CE marked

EMC approved

ALARM ANCILLARIES

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		2	

NS-2 - Nightshift reversing alarm cut-out switch

Features

NS-3 - Nightshift reversing alarm cut-out switch (auto gearbox)

- Double engage reverse to cut-out alarm Resets when reverse gear disengaged
- No wiring necessary to cab

Durability and Standards

- CE marked
- EMC approved

4752

0334

0974

Warranties



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. Normal wear-and-tear excluded. 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 can be found at www.brigade-inc.com.

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1334	SS-BC-08	55	3106	VBV-L412	32	4550	BS-05DCX	61
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1346	CT-470	60	3151	VBV-L407	32	4596	SM-3XX-25	25
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1380	VBV-L420	32	3183	AC-024	39	4649	BN-360-100C-BKT01	10
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Glossary

ADPCM

An audio file format, optimized for storing digitised data at a low sampling rate.

AHD

Analogue high definition video standard that uses standard cable to transmit HD video from cameras to Monitor/DVR

Amp

Unit of electric current.

Auto-trigger

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

AVAS

Acoustic Vehicle Alert System (AVAS) automatically emits an external synthesized sound to enable pedestrians to be audibly aware of the vehicle's presence.

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.

CAN bus

Controller Area Network is a robust vehicle standard designed to allow microcontrollers and devices to communicate with each other without a host computer. A Controller Area Network (CAN bus) is a robust vehicle bus standard designed to allow microcontrollers and devices to communicate with each others' applications without a host computer.

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).

CVBS

Composite Video Blanking and Sync. An analogue video signal format that carries standard-definition video as a single channel.

Decibel (dB)

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

DWDR (Digital Wide Dynamic Range)

Digitally Produces a greater dynamic range of luminosity for improved detail in highlights and shadows.

EMC (Electro-magnetic compatibility)

Regulation concerning the typeapproval tests for European automotive electronics.

- E

United Nations mark for approved vehicle components sold into the EU. And in some other countries under UN-ECE Regulation 10

EN 13309:2010

Construction machinery. Electromagnetic compatibility of machines with internal power supply

FCC mark

Certification for electromagnetic interference on products manufactured or sold in the United States which comply with the Federal Communications Commission.

FMCW

Frequency-Modulated Continuous Wave radar. A known stable frequency continuous wave is transmitted and then received from any reflecting objects.

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.

IC (Industry Canada)

Certification for electromagnetic interference on products manufactured or sold in Canada which comply with the Bureau of Innovation, Science & Economic Development

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

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 16750

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

ISO 20653: 2006

Road vehicles — Degrees of protection (IP-Code) of electrical equipment against foreign objects, water and access

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 back light 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.

Quiet Mark

An international approval associated with the UK Noise Abatement Society. It encourages companies worldwide to prioritise noise reduction.

R46

UN ECE Regulation No 46 covers devices for indirect vision and their installation.

R118

UN ECE Regulation No 118 determines the burning behaviour (ignitibility, burning rate and melting behaviour) of materials.

R138

UN ECE Regulation concerning the approval of Quiet Road Transport Vehicles with regard to their reduced audibility.

Resolution (RGB)

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

RoHS 2

The restriction of the use of certain hazardous substances in electrical and electronic equipment

SAE J994

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

Sounder unit

Unit which produces the sound of an alarm.

TV Lines

Number of horizontal lines used to create an image.

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.

Vulnerable road user

Road users most at risk in traffic – such as pedestrians, cyclists and public transport passengers. Children, older people and disabled people may also be included in this category.

Watt

A measure of the electrical power needed to drive a product.

WDR (Wide Dynamic Range)

Produces a greater dynamic range of luminosity for improved detail in highlights and shadows.

WiFi

A facility allowing devices to communicate wirelessly. A wireless network creates a small, localised area within which your devices can receive signal.

4G

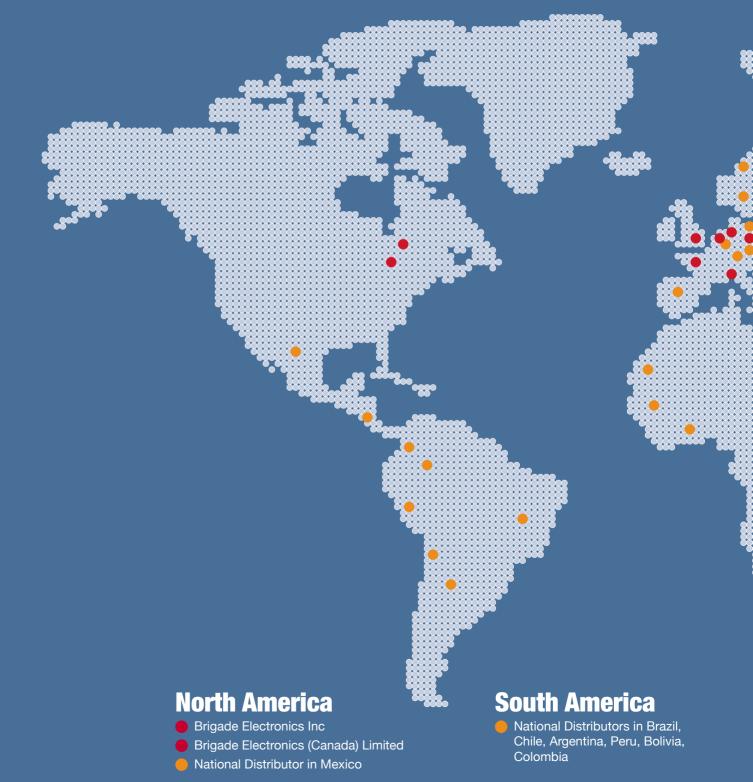
A cellular data service available from mobile network providers.

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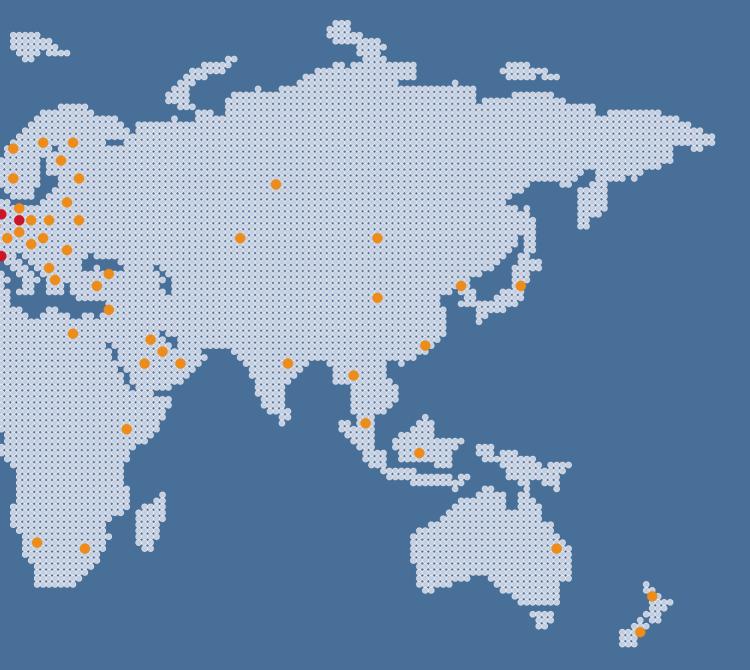
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