Brigade

Vehicle Safety Systems

Product Catalogue

North American Edition 24

"Zero lives lost in collisions with commercial vehicles and mobile machinery"

Brigade is at the pinnacle of commercial vehicle and mobile plant 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 caliber 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 plant 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
- Our products comply with REACH and RoHS
- Not all products sold in Canada

Brigade

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Camera Monitor Systems

Brigade's camera monitor systems enable drivers and operators to maneuver and drive safely.

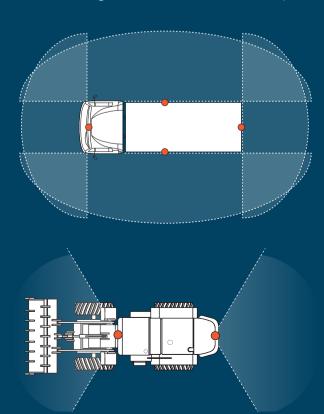
Vehicle-mounted cameras can help the driver to see blind spots by delivering a live feed on the monitor of everything in the camera view, including people or obstacles.

Camera monitor systems are used in a wide range of on and offroad applications to meet a host of health and safety and legislative requirements. The range includes entry-level reversing cameras to full-vehicle camera system with Al. With single-to-multiple camera inputs and auto-triggers, Brigade cameras and monitors will work on any application in any industry and are fully compatible with MDR recorders.

Internet Protocol (IP) Cameras are high-definition digital cameras with their own IP address. Directly connected to an MDR, the IP camera transmits digital video over a data connection (ethernet cable) where the images are saved to the onboard storage.

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

Al Cameras are a new generation of active blind-spot detection.





Backeye®360

Brigade

AI

360° Camera Monitor Systems

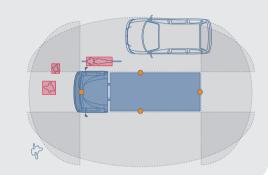
An intelligent camera monitor system designed to assist low-speed maneuvering by providing the driver with a complete 'bird's-eye' surround view of the vehicle in real-time.

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. A clear, real-time view is provided to the driver in a single image on the monitor.

360° with Artificial Intelligence

- Recognizes and alerts the driver to people around the vehicle
- Detected people are shown in a colored box overlayed on the 360° image on the driver's monitor
- Compatible with all Brigade HD monitors and MDR recorders



Model Part No:

AI AHD 360° CAMERA SYSTEM

VBV-360-1000 - High Definition Backeye®360 system with Artificial Intelligence 7524



IP69K cameras

- 12-24Vdc
- Size (WxHxD) ECU 140 x 122 x 40mm 5.5 x 4.8 x 1.6 inches
- Size (WxHxD) Camera 140 x 63 x 54mm 5.5 x 2.5 x 2.1 inches
- 3 year warranty

AHD

Contents

- 1 x ECU
- 4 x VBV-2230-C-Al cameras • 1 x Interface Harness
- 1 x Power harness
- 1 x Video input harness
- 1 x Video output harness
- 1 x Video output cable
- 1 x Remote control
- 1 x 5m/16' extension cable 2 x 10m/33' extension cable
- 1 x 20m/66' extension cable
- **Features**

Al technology

- · Audible and visual alerts when a pedestrian or cyclist is detected
- · Comprehensive view of surrounding area in a single image
- 1080p HD 360° image
- 5 view modes
- Choice of 2D or 3D
- Landscape & portrait configuations - Front & rear crossing-traffic
- Customizable vehicle position
- Auto calibration via monitor
- · Left, right, reverse & speed signal triggers Configurable on-screen parking markers

- · Customizable overlay guidelines per camera view 2 x video outputs · Ultra-wide viewing angle cameras
- (HxV) 190° x 130°
- 1/4" CMOS sensor
- Video output:
- AHD 1.0 and CVBS (PAL/NTSC) • 360 view and individual channels

recordable on Brigade MDR recorders

Power

- Power consumption: 15 Watts
- Current: 1.22 Amps

Durability & Standards

- Mechanical vibration: 2.8G
- Operating temperature: -20 to +75°C / -4 to +167°F
- IP30 ECU
- CE marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- IC Approved

NOTES

- · Calibration mats are required for installation
- · HD monitor required

OPTIONAL EXTRAS

VBV-360-CALMAT-STD - Backeye®360 VBV-360-1000-ai Calibration Mat, Standard x 4

7627

BN360-CK-02 - Backeye 360 BN360-200 Calibration kit 5405

Model Part No:

AI CAMERA CABLES





VBV-AI801 VBV-AI805 VBV-AI810

- 1m / 3' Al Camera extension cable - 5m / 16' Al Camera extension cable - 10m / 33' Al Camera extension cable

VBV-AI815 - 15m / 49' Al Camera extension cable **VBV-AI820** - 20m / 66' Al Camera extension cable 7489 7490 7508 7509 7491

HD

5800

HD

AHD 360° CAMERA SYSTEM

BN360-300 - High Definition Backeye®360 system



- · IP69K cameras
- 12-24Vdc
- Size (WxHxD) ECU 179 x 113 x 26mm 7 x 4.4 x 1 inches
- 55 x 45 x 41mm 2.1 x 1.8 x 1.6 inches
- 5 year warranty

AHD

- Size (WxHxD) Camera

Contents • 1 x ECU

- 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 FCU interface/video input harness
 - **Features**
 - 720p HD 360° image • 15 different view modes (10 x landscape
 - & 5 x portrait configuations)
 - Front & rear crossing-traffic
 - Customizable vehicle position • 2 pre-defined configuration groups
 - Configure & customise set up via PC calibration software
 - Left, right, reverse & speed signal triggers
 - Configurable on-screen parking markers Customizable overlay guidelines per
 - camera view
 - 2 x video outputs
 - Ultra-wide viewing angle cameras (HxV) 182° x 118°
 - 1/4" CMOS senso
 - Video output: AHD 1.0 and NTSC
 - 360 view and individual channels recordable on Brigade MDR recorders

• 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 ECU
- 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

BN360-300 360° CAMERA MONITOR SYSTEMS

Complete 360 AHD camera monitor system for large rigid vehicles

SE-770HR-300 - 360 AHD camera system with VBV-770HM - 7" AHD monitor SE-7014HRF-300 - 360 AHD camera system with VBV-7104HFM - 10.4" AHD monitor 7297







1 x BN360-300 AHD 360 system

· 1 x BN360-H310 - 10m camera cable 2 x BN360-H315 - 15m camera cables

1 x BN360-H320 - 20m camera cable

See individual products for detailed specifications and warranties



VBV-7104HFM

10.4"

Madal

Camera Monitor Systems



Model		Part No:
BN360-300	CABLES	HD
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
AC-H305	HD Splitter cable for MDR (1 required per camera)	6648



BN360-300 MO	UNTING BRACKETS		
BN360-100C-BKT01	Adaptable mounting bracket Can be shaped to allow installation on non-vertical surfaces	46	49
BN360-100C-BKT02	Mounting bracket to adjust camera angle	47	14
BE360-CD	Deflector to shield camera from knocks (To be used with BN360-100C-BKT02 Mounting bracket)	47	01
BN360-100C-BKT03	Deflector to shield camera from knocks	47	43

Camera Monitor System Ranges



Al cameras are a new generation of active blind-spot detection. Using Artificial Intelligence, the cameras detect and recognize the human form within the pre-defined detection zone and reliably warn the driver visually and/ or audibly before a possible collision occurs.

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 N2 and N3 Heavy Goods Vehicles (HGVs), on/off-highway vehicles, agricultural machinery and mobile plants 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 plants.

ESSENTIAL

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

Camera Monitor Icon Key

Camera icons

ooo LED Infrared LEDs for ultra-low-light performance ooo

Day/night sensor

,,,, Heater

Normal/mirror view

WDR Wide Dynamic Range

DWDR Digital Wide Dynamic Range

Monitor icons

Number of camera inputs

Number of auto-triggers

(1))) Audio

"Button-lock' anti-tamper feature

On-screen distance and vertical line markers

Normal/mirror view - switching from menu

Cable icons

(Black = solid/pins)

Male connector Select

Female connector Select

Male screw fit connector Elite

Female screw fit connector Elite

Male push fit connector Elite

Female push fit connector Elite

Male IP connector

Female IP connector

(Male Al connector

Female AI connector

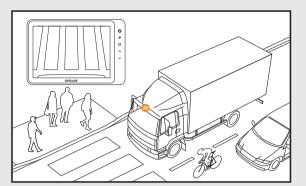
Cameras with Artificial Intelligence

Al cameras are a new generation of active blind-spot detection.

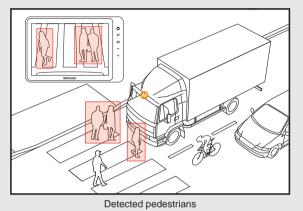
Using Artificial Intelligence, the cameras detect and recognize the human form within the pre-defined detection zone and reliably warn the driver visually and/or audibly before a possible collision occurs.

- Recognizes and alerts the driver to people in the front and rear blind-spot
- Detected people are shown in a colored box overlayed on the HD camera image on the driver's monitor
- Image processing and detected-person-overlay directly from the camera unit
- Plug and play:
 Al camera connects directly to the Brigade monitor and/or optional buzzer
- Compatible with all Brigade HD monitors and MDR recorders





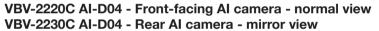
No pedestrians in the detection zone



Model Part No:

CAMERA WITH ARTIFICIAL INTELLIGENCE

AI



7321 7396





Camera Viewing angles: Front: 52° Rear: 129°

- Al Detection range:
 Front: Covers Class 6 area
 Rear: Up to 11m/36'
 (dependent on camera
 mounting height)
- IP69K
- Camera Size (WxHxD) 97.5 × 75.3 × 72mm 3.8 x 3 x 2.8 inches
- · 2 years warranty

AHD

Features

- High Definition AHD 1080P
- Recognizes and alerts the driver to people in the front and rear blind-spot
- Detected people are shown in colored box overlayed onto the camera image
- Image processing and detected-personoverlay directly from the camera unit
- Plug and play:
 Al camera connects directly to the
 Brigade monitor and/or optional intern
- Brigade monitor and/or optional internal buzzer or external alarm
- Brigade Select range connectors
 Compatible with all Brigade HD monitors
- and MDR recorders

 Alarm trigger output: 12V

Specifications

• 260mA @12V, 140mA @24V Imaging

Operating Voltage: 12-24V

- TV system: 25fps
- CMOS 1/2.9" 2M Pixel sensor

Durability & Standards

- Mechanical vibration: 5.9G
- Operating temperature:
 -20 to +70°C / -4 to 158°F
- E-marked: UNECE R10 compliant
- CE marked
- FCC Approved
 LIKCA Approved
- UKCA Approved
- IC Approved

NOTE:

 VBV AI Camera extension cables only to be used



AI CAMERA CABLES



8-pin to VBV 4-pin

monitor adapter

7489 VBV-AI801 - 1m / 3' Al Camera extension cable **VBV-AI805** - 5m / 16' Al Camera extension cable 7490 **VBV-AI810** 7508 - 10m / 33' Al Camera extension cable **VBV-AI815** - 15m / 49' Al Camera extension cable 7509 **VBV-AI820** - 20m / 66' Al Camera extension cable 7491 5760 AC-24-12(011) - Power adapter for AI camera

Elite Range Camera/monitor compatibility

KEY	ELITE MONITORS	SELECT MONITORS
✓ = Compatible✓ AC-007 = Compatible with adapter(s) shown	BE-970WFM BE-970WM BE-870LM BE-870FM	VBV-770HFM VBV-770HM VBV-7104HFM VBV-7104HM
ELITE BE-810C Shutter camera	✓	✓ AC-007 & SC-1000-ECU
All other ELITE cameras ✓ AC-007		✓ AC-007

Model Part No:

AHD CAMERA 1080p

ELITE

BE-8101C - NTSC

6410



- Viewing angle (HxVxD)
 126 x 69 x 144°
- IP69K

· IP68

· Size (WxHxD)

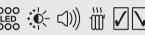
86 x 72 x 80mm

5 year warranty

WDR

3.4 x 2.8 x 3.2 inches

- Size (WxHxD) 86 x 72 x 78mm 3.4 x 2.8 x 3 inches
- · 5 year warranty



R46 AHD

Features

- High definition picture quality with 1080p AHD 2.0 video signal output
- 4 Infrared LEDs for ultra-low light performance
- Day / Night sensor
- Microphone
- Mirror / Normal view
- Back Light CompensationAutomatic white balance
- CMOS sensorTV lines: 800

Power

- Power consumption: 4.2 WattsCurrent: 0.35 Amps
- 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 ApprovedIC Approved
- ISO 13766:2018
- ISO 20653:2013
- EN61000-6-3:2021
- Camera monitor system R46 approved

ELITE

1905

2085

2084

5426

CAMERA WITH WDR

BE-801C - NTSC
BE-801C(40) - Narrow viewing angle: 33 x 25 x 42° NTSC

BE-801C(78) - Narrow viewing angle: 71 x 52 x 94° NTSC

BE-891C - Waterproof to IP69K, No microphone, NTSC

Features

- Viewing angle (HxVxD)

 108 x 80 x 136°

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

e for improved detail • Power consumption: 4.5 Watts

Current: 0.33 Amps
 Durability & Standards

• Mechanical vibration: 8.5G

Mechanical shock: 51G

Mechanical shock: 5 TG
 Operating temperature:

-40 to +85°C / -40 to 185°F

CE marked

• E-Marked: UNECE R10 compliant

FCC Approved

IC Approved

ISO 13766:2006ISO 20653:2006

• EN13309:2010

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Select Range Cameras

Brigade

Model Part No:

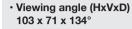
SHUTTER CAMERA WITH WDR

ELITE

BE-810C - Shutter camera

1242





- IP69K
- Size (WxHxD) 123 x 86 x 80mm 4.8 x 3.4 x 3.1 inches
- 5 year warranty



WDR

- Wide Dynamic Range for improved detail in shadows and highlights
- 5 Infrared LEDs for ultra-low light performance
- Day / Night sensor Automatic shutter
- Heater
- Microphone
- Mirror / Normal view
- Backlight compensation
- Automatic white balance Sony CMOS sensor
- TV System: PAL • TV Lines: 450

- Power consumption: 5.4 Watts
- Current: 0.45 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
- IC approved
- ISO 13766-1:2018

Select Range Camera/monitor compatibility

KEY	ELITE MONITORS	SELECT MONITORS
✓ = Compatible✓ AC-006 = Compatible with adapter(s) shown	BE-970WFM BE-970WM BE-870LM BE-870FM	VBV-770HFM VBV-770HM VBV-7104HFM VBV-7104HM
SELECT VBV-711C Shutter	√ AC-006	✓
All other SELECT cameras	√ AC-006	✓

Model **Part No:**

AHD CAMERA 1080p

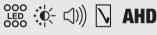
VBV-7101C - High definition (1080p-NTSC)

VBV-7191C - No audio. High definition (1080p-NTSC)

- 110° x 60° x 127° • IP69K
- · Size (WxHxD) 81 x 77 x 70mm 3.2 x 3 x 2.75 inches

· Viewing angle (HxVxD)

· 3 year warranty







- 4 high-power Infrared LEDs for ultra-low • Power consumption: 3 Watts light performance
- Day / Night sensor
- Microphone

Features

- Mirror view * Backlight compensation
- Automatic white balance
- Sony CMOS 1/3"& Nextchip ISP • TV System: AHD 1.0 (1080p)
- TV Lines: 800

Power

- 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

SHUTTER CAMERA

VBV-711C -Shutter camera

2841

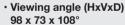
SELECT

SELECT HD

5467

5471





- · IP68 / IP69K
- · Size (WxHxD) 122 x 85 x 82mm 4.8 x 3.3 x 3.2 inches
- · 3 year warranty









Features

- 4 high power infrared LEDs for ultra-low
- light performance
- Day / Night sensor Automatic Shutter
- Heater
- Microphone
- Mirror / Normal view • Backlight compensation
- Automatic white balance
- 1/3" Sharp CCD
- TV System: PAL • TV Lines: 580

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



Select Range Cameras

Model

Brigade

Part No: Model

AHD EYEBALL CAMERA

SELECT HD

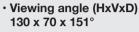


VBV-3101C - High Definition Flush-mount eyeball camera Mirror view - (1080p-NTSC)

7144

VBV-3121C - High Definition Flush-mount eyeball camera Normal view - (1080p-NTSC)

7146



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



- 5 high power infrared LEDs for ultra-low
- light performance Day / Night sensor
- Lens swivel adjustment: 26° (Top) x 4° (Bottom) x 4° (Left) x 4° (Right)
- Lens rotation adjustment: ±180° Microphone
- Backlight compensation
- Automatic white balance
- 1/3" CMOS
- TV System: AHD 2.0 (1080p)
- TV lines: 900

- Power consumption: 1.6 Watts
- Current consumption: 0.112 Amps

Durability & Standards

- Mechanical vibration: 8.5G Mechanical shock: 51G
- Operating temperature: -30 to +70°C / -22 to 158°F
- CE marked
- E-Marked: UNECE R10 compliant
- FCC approved
- IC approved

AHD DOME CAMERA

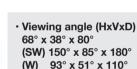
SELECT HD

5738

5690

5698





- Size (Diameter x H) 76 x 59.5 mm 3 x 2.3 inches
- · 3 year warranty





Features

- High definition dome camera (720p-NTSC)

 Dome camera with 150° movement range in all directions

MD-61(SW) - High definition dome camera - Superwide view angle (720p-NTSC)

- Can be used internally or externally
- Mirror / Normal view

MD-61(W) - High definition dome camera - Wide view angle (720p-NTSC)

- 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 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
- CF marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- IC Approved



OPTIONAL EXTRAS

MD-50SM-30 - Surface mounting adapter (30mm deep)

5003

MD-50AM-15 - Angled surface mounting adapter (adds 15°)

5004

5005

MD-50AM-25 - Angled surface mounting adapter (adds 25°)

AHD MINI CAMERA

SELECT HD

DMC-1031 - High definition mini camera (internal use) (720p-NTSC)

5719

Part No:



- · IP30
- · Size (WxHxD) 43 x 45 x 37.5mm 1.7 x 1.8 x 1.5 inches
- · 3 year warranty



✓ N
AHD

• Power consumption: 1.0 Watt

• Mirror / Normal view

Features

- · Backlight compensation Automatic white balance
- **Durability & Standards** • CMOS - 1/3" ON-Semi ISP - Nextchip • Mechanical vibration: 10G
- TV System: AHD 1.0 (720p) • TV Lines: 900
- -30 to +85°C / -22 to +185°F
 - CE marked
 - E-Marked: UNECE R10 compliant

IC approved

FCC approved

Current: 0.55 Amps

Mechanical shock: 51G

• Operating temperature:

CYLINDER CAMERA

SELECT

2843

15

VBV-481C - Cylinder camera NTSC





- IP69K/IP68
- Size (Diameter x Length) 35 x 50mm 1.4 x 2 inches

Viewing angle (HxVxD)

· 3 year warranty



- 9 LEDs for ultra-low light performance
- Dav/night sensor Mirror view
- Backlight compensation
- Auto white balance • 1/3" Sharp CCD
- TV Lines: 800

• Power consumption: 1.9 Watts • Current: 0.2 Amps

- **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
- IC approved

IP Cameras

Brigade

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 Mobile Digital Recorder (MDR), the IP camera transmits digital video to an MDR over a data connection (ethernet cable) where the images are saved to the onboard storage.

Brigade Expansion Modules use Power Over Network (PON) Switch technology to expand the channel capability of the MDR by transmitting digital video images from up to 8 IP cameras over a single ethernet connection to the MDR. 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-641

MDR-508 MDR-644

MDR-644 and 4 x PON switch

MDR-508 and 4 x PON switch MDR-508 and 8 x PON switch - 4 x Analogue channels plus 1 x IP channel

- 8 x Analogue channels plus 1 x IP channel

- 4 x Analogue channels plus 4 x IP channels - 4 x Analogue channels plus 8 x IP channels

- 8 x Analogue channels plus 4 x IP channels

- 8 x Analogue channels plus 8 x IP channels

= 5 channels

= 9 channels

= 8 channels

= 12 channels

= 12 channels

= 16 channels

Model Part No:

IP CAMERA

IP-1000C - Internal forward-facing camera

5935



· Viewing angle (HxVxD) 87 x 51 x 98° IP20

- Size (WxHxD) 75 x 122 x 42mm 3 x 5 x 1.7 inches
- · 3 vear warranty







Features

- · High-definition picture quality • Windshield 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: 1050
- Latency: 250ms

Power

- Power consumption: 2.7 Watts
- Current: 0.23 Amps @ 12V

Durability & Standards

- Mechanical vibration: 6G
- 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

IP CAMERA

IP-1200C - Surface-mount dome camera

5937



Viewing angle (HxVxD) 110 x 60 x 136° **IP65**

- Size (WxHxD) 101.5 x 57.4 x 96mm 4 x 2.2 x 3.8 inches
- · 3 year warranty





Features

- · High-definition picture quality Surface mount
- Heater Microphone
- 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: 900
- · Latency: 250ms

- Power consumption: 3.5 Watts • 0.26 A @ 12V (IR off)
- 0.31 A @ 12V (IR on)

Durability & Standards

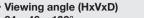
- Mechanical vibration: 6G
- Mechanical shock: 51G
- Operating temperature: -40 to +70°C / -40 to +158°F
- Video output signal: H264 or H.265 Network protocol: MDR5_ONVIE
- TCP/IP, HTTP, DHCP, NTP, FTP CE marked
- E-Marked: UNECE R10 compliant
- FCC approved
- IC approved

Model Part No:

IP CAMERA

IP-1100C - Surface-mount camera

5936



- 84 x 46 x 103°
- **IP67**
- 96 x 52 x 58mm 3.8 x 2 x 2.3 inches
- · 3 year warranty



· 12-24Vdc

Size (WxHxD)

· 3 year warranty

· 4 or 8 IP camera inputs

IP-EM4: 149 x 44 x 127mm

IP-EM8: 174 x 54 x 129.5mm

- Size (WxHxD)



- 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

• Latency: 800ms

- 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
- CE marked FCC approved

IP EXPANSION MODULES

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

Features

- Expands the channel capability of the MDR by enabling the addition of IP cameras
 - IP-EM4 adds 4 channels to MDR-508 IP-EM8 - adds 8 channels to MDR-508 IP-FM4 - adds 4 channels to MDR-644

• Power consumption: 3 Watts

Durability & Standards

• Mechanical vibration: 2.3G

- Mechanical shock: 150G
- Operating temperature: -40 to +70°C / -40 to +158°F
- CE marked

IC approved

• E-Marked: UNECE R10 compliant FCC approved

6 x 1.7 x 5 inches

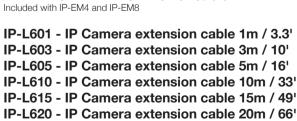
7 x 2 x 5 inches



IP-EC-1 - CAT5E Ethernet cable 1m / 3.3 IP-EC-5 - CAT5E Ethernet cable 5m / 16'

IP-EM-PC - MDR-PON Power cable

IP CAMERA ACCESSORIES



IP-L630 - IP Camera extension cable 30m / 981 IP-1XXX-PC - IP Power and Ethernet cable

To connect a single camera to MDR 500 without a PON switch . Not required for 644 and 641 series MDR.

WARNING: There is a latency (time lag) in all digital video transmission, including IP Cameras. Although this time lag is small (~800ms IP1100C ~250ms IP1000C & IP1200C), it is unacceptable for a camera that a driver is using as a safety and maneuvering 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 maneuvering or blind-spot monitoring. Analogue cameras are still the best choice for safety critical maneuvering and blind spot monitoring applications.

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5860

5861

5865

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5902

5903

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5904

5983

5984

5985

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

Elite Range Camera/monitor compatibility

KEY	ELITE MONITORS	SELECT MONITORS	
✓ = Compatible✓ AC-007 = Compatible with adapter(s) shown	BE-970WFM BE-970WM BE-870LM BE-870FM	VBV-770HFM VBV-770HM VBV-7104HFM VBV-7104HM	
ELITE BE-810C Shutter camera	✓	✓ AC-007 & SC-1000-ECU	
All other ELITE cameras	✓	✓ AC-007	

Model Part No:

7" IP69K QUAD MONITOR

ELITE

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

3560



IP69K

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













Features

- 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
- Audio
- Speed switch trigger to turn monitor on/off or trigger a split screen
- Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

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

Power

- Power consumption: min 28 Watts
- Current: 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

7" IP69K MONITOR

ELITE

3351



BE-970WM - Waterproof 7" Digital LCD monitor

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

· 12-24Vdc

IP69K

5 year warranty













Features

- 2 Camera inputs
- Shutter camera compatible both inputs • Backlit touch screen button panel
- 'Button-lock' anti-tamper feature
- 2 Auto-triggers
- Mirror / Normal switching from menu
- · On screen distance and vertical
- line markers Audio
- Sun shield
- Multi-lingual menus
- Auto-switching PAL / NTSC
- **Picture Quality**
- LED backlighting
- (gives 20,000 hours life)
- Anti-glare screen • Resolution: 800 x 480
- Contrast ratio: 500:1
- Brightness: 500cd/m²
- · Viewing angles:
- Side 65° x Top 50° x Bottom 60°

Power

- Power consumption: 11 Watts • Current: 0.9 Amps
- **Durability & Standards**

Aluminium die-cast casing

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

0000000







Features

BE-870HM - 7" High Definition LCD monitor

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

Picture Quality

- LED backlighting (gives 20,000 hours life)
- Anti-glare screen

ELITE

6380

2146

• Resolution: 1024 x 600

- . Contrast ratio: 800:1
- Brightness: 500cd/m²
- · Viewing angles:

Side 80° x Top 60° x Bottom 70°

- Power consumption: 11.7 Watts
- Current: 0.975 Amp.

Durability & Standards

- Mechanical vibration: 3G
- Mechanical shock: 51G
- Operating temperature: -40 to +70°C / -40 to +158°F
- CE marked
- E-Marked: UNECE R10 compliant

ELITE

- FCC approved
- IC approved

7" QUAD MONITOR

BE-870FM - 7" Digital LCD monitor

- · 12-24Vdc · Size (WxHxD) 197 x 135 x 30mm 7.8 x 5.3 x 1.2 inches
- 5 year warranty

7" MONITOR

· 12-24Vdc

7.0

Size (WxHxD)

5 year warranty

194 x 124 x 33mm

7.6 x 4.9 x 1.3 inches

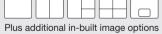
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· 4 camera inputs • 5 Auto-triggers

Features

- Shutter camera compatible • 'Button-lock' anti-tamper feature
- Mirror / Normal switching from menu • On-screen distance & vertical line markers
- Sun shield
- Auto-dimmer
- Multi-lingual menus Auto-switching PAL / NTSC

Picture Quality

LED backlighting

Audio

- (gives 20,000 hours life)
- Anti-glare screen • Resolution: 800 x 480
- Contrast ratio: 500:1
- Brightness: 4000cd/m²
- Viewing angles:

Side 70° x Top 50° x Bottom 70°

• Current: 1.9 Amps

Power

Durability & Standards Mechanical vibration: 6G

• Power consumption: 21 Watts

- . Mechanical shock: 100G • Operating temperature:
- -40 to +70°C / -40 to +158°F
- CE marked E-Marked: UNECE R10 compliant
- HALT tested

7" MONITOR

BE-870LM - 7" Digital LCD monitor

2705

ELITE

- · 12-24Vdc
- · Size (WxHxD) 197 x 128 x 34mm 7.8 x 5 x 1.3 inches
- 5 year warranty









- **Features** 2 Camera inputs
- Shutter camera compatible both inputs • 'Button-lock' anti tamper feature
- · 2 Auto-triggers with configurable trigger off delays Mirror / Normal switching from menu • On-screen distance and vertical line markers
- Audio Sun shield
- Auto-dimmer and keypad illumination • Multi-lingual menus
- Auto-switching PAL / NTSC

Picture Quality

- LED backlighting (gives 20,000 hours life)
- Anti-glare screen

- Resolution: 800 x 480
- Contrast ratio: 500:1 • Brightness: 400cd/m²

Power

 Viewing angles Side 70° x Top 50° x Bottom 70°

• 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

Brigade

Select Range Camera/monitor compatibility

KEY	ELITE MONITORS	SELECT MONITORS
✓ = Compatible✓ AC-006 = Compatible with adapter(s) shown	BE-970WFM BE-970WM BE-870LM BE-870FM	VBV-770HFM VBV-770HM VBV-7104HFM VBV-7104HM
SELECT VBV-710C Shutter	√ AC-006	✓
All other SELECT cameras	√ AC-006	✓

Part No: Model

AHD 10.4" QUAD MONITOR

SELECT HD



6057





Size (WxHxD) 267 x 193 x 30mm 10.5 x 7.6 x 1.2 inches

· 3 year warranty

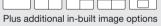












Features

- AHD and CVBS compatible
- High-definition, high contrast, wide view
- 4 camera inputs
- 'Button-lock' anti-tamper feature
- 5 Auto-triggers
- Mirror / Normal switching from menu
- · On-screen distance markers

- PAL / NTSCC

- (gives 30,000 hours life) Anti-glare screen

- Configurable view options

- Configurable trigger delay
- Built-in speaker
- Sun shield
- Multi-lingual menus
- Auto-switching AHD 1.0 / AHD 2.0 /

Picture Quality

LED backlighting

Side 85° x Top 85° x Bottom 85°

- Power consumption: 31.2 Watts
- Current: 2.6 Amps

Durability & Standards

Resolution: 1024 x 768

• Contrast ratio: 900:1

Brightness: 500cd/m²

Viewing angles:

- Mechanical vibration: 4G
- Mechanical shock: 51G
- Operating temperature: -20 to +70°C / -4 to +158°F
- CE marked
- E-Marked: UNECE R10 compliant
- HALT tested
- FCC approved
- IC approved

AHD 7" MONITOR

SELECT HD

VBV-770HFM - 7" High Definition LCD monitor

7204







• 12-24Vdc

- Size (WxHxD)
- 196 x 118 x 28mm 7.7 x 4.6 x 1.1 inches
- 3 year warranty





























Plus additional in-built image options

- AHD and CVBS compatible
- High-definition, high contrast, wide view
- Configurable views
- 4 camera inputs
- 5 Auto-triggers
- Mirror / Normal switching from menu. • 'Button lock' anti-tamper feature
- On-screen distance markers
- Audio
- Sun shield
- Auto-dimmer

 - Multi-lingual menus
 - Auto-switching AHD 1.0 / AHD 2.0 / PAL / NTSC

Picture Quality

- LED backlighting
- (gives 20,000 hours life) Anti-glare screen

- Resolution: 1024 x 600
- Contrast ratio: 700:1
- Brightness: 650cd/m²
- Viewing angles: Side 85° x Top 85° x Bottom 85°

Power

- Power consumption: 27.6 Watts
- Current: 2.3 Amps

Durability & Standards

- Mechanical vibration: 3G • Mechanical shock: 51G
- Operating temperature:
- -20 to +70°C / -4 to +158°F CE marked
- E-Marked: UNECE R10 compliant
- UKCA marked • HALT tested
- FCC approved IC approved

Part No: Model

AHD 7" MONITOR

SELECT HD

5611

5323

VBV-770HM - 7" High Definition LCD monitor



- · Size (WxHxD) 196 x 118 x 26mm 7.7 x 4.6 x 1 inches
- · 3 year warranty





7.0









• 3 Auto-triggers Mirror / Normal switching from menu 'Button lock' anti-tamper feature

Features

- On-screen distance markers Audio
- Sun shield Auto-dimmer Multi-lingual menus

• 3 camera inputs

• Auto-switching AHD 1.0 / AHD 2.0 / PAL / NTSC

Picture Quality

 LED backlighting (gives 20,000 hours life) • Anti-glare screen

- AHD and CVBS compatible • Contrast ratio: 700:1 • Brightness: 500cd/m² • High-definition, high contrast, wide view
 - Viewing angles

 - Side 85° x Top 85° x Bottom 85°

Power • Power consumption: 10 Watts

• Resolution: 1024 x 600

- Current: 0.8 Amps
- **Durability & Standards**
- Mechanical vibration: 4G
- Mechanical shock: 51G
- Operating temperature: -30 to +70°C / -22 to +158°F
- CF marked • E-Marked: UNECE R10 compliant
- HALT tested
- FCC approved IC approved

4.3" MIRROR MONITOR

VBV-243M - 4.3" Digital Mirror monitor

ESSENTIAL







- · 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

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

· Viewing angles: Side 65° x Top 60° x Bottom 50°

SELECT



CAMERA MONITOR SYSTEM ANCILLARIES BMM-019-ARM - 68mm/2.7" replacement arm (Select range)

3348

21

· 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

Part No: Model

AHD CAMERA MONITOR SYSTEMS

HD

BE-H870L-000N - Single AHD camera monitor systems for rigid vehicles BEA32K007











See individual products for detailed specifications and

6380

6410

7374

CAMERA MONITOR SYSTEMS

ELITE

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

3131





• BE-870LM - 7" monitor	2705
· BE-801C - Camera	1905
• BE-L120 - 20m / 66' cable	0801

See individual products for detailed specifications and warranties

R46

AHD CAMERA MONITOR SYSTEMS

SELECT HD

VBV-770H-7001 - Single AHD camera monitor system for rigid vehicles

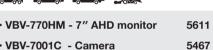
6123











See individual products for detailed specifications and warranties

VBV-770H-3101 - Single AHD camera monitor system for small rigid vehicles 6125











VBV-770HM - 7" AHD monitor VBV-3001C - AHD Camera 5455 VBV-H410 - AHD 10m / 33' cable 5516 See individual products for detailed specifications and

VBV-770H-3001 - Single AHD camera monitor system for rigid vehicles

6124









· VBV-770HM - 7" AHD monitor 5611 VBV-3001C - AHD Camera 5455 VBV-H420 - AHD 20m / 66' cable

See individual products for detailed specifications and warranties

Camera Monitor Kits

Brigade

Model Part No:

AHD CAMERA MONITOR SYSTEMS

SELECT HD

VBV-H770-000N - Single AHD camera monitor system for rigid vehicles BEA32K003











VBV-H420 - AHD 20m / 66' cable 5513

See individual products for detailed specifications and

VBV-H770-010N - Single AHD camera monitor system for small rigid vehicles and vans

BEA32K004







See individual products for detailed specifications and

5611

5467A

5516

VBV-H770-910 - Single AHD cameral monitor system for vans

BEA32K005







· VBV-770HM - 7" AHD monitor 5611 VBV-7191C - AHD Camera 5471 VBV-H410 - AHD 10m / 33' cable 5516

See individual products for detailed specifications and warranties

VBV-H770-301 - Single AHD flush-mount camera monitor system for rigid vehicles

BEA32K006









· VBV-770HM - 7" AHD monitor 5611 VBV-3101C - AHD Camera 7144 VBV-H420 - AHD 20m / 66' cable 5513

See individual products for detailed specifications and warranties

Camera Monitor Kits

Brigade

Part No: Model

CAMERA SYSTEMS

7" Monitor-3 Camera Box Truck Kit

SELECT HD



BEA32K001















· VBV-3001C - AHD Camera x2	5455
· VBV-7001C - Camera	5465
· VBV-770 DHFM - 7" Quad Monitor	7012
• VBV-H415 - 15m / 49¹ cable	5514

5519

VBV-H405 - 5m / 16' cable x2

See individual products for detailed specifications and warranties





BEA32K002









· VBV-3001C - AHD Camera x2	5455
· VBV-7001C - Camera	5465
• VBV-770 DHFM - 7" Quad Monitor	7012
BS-4000W - Backscan Reversing Sensor	A 3744
· UDS-001BZ - UDS Adjustable	
Warning Buzzer	3715
• VBV-H415 - 15m / 49' cable	5514
· VBV-H405 - 5m / 16' cable x2	5519

See individual products for detailed specifications and

Model

AHD CAMERA MONITOR SYSTEM

ESSENTIAL

VBV-6172-000 - High Definition Camera monitor system

Part No:

7595



- · Camera Viewing angle (HxVxD)
- 106 x 56 x 120°
- · IP69K camera
- · Camera Size (WxHxD) 76 x 59 x 55mm 3 x 2.3 x 2 inches
- · Monitor Size (WxHxD) 194 x 118 x 25mm 7.6 x 4.6 x 1 inches
- · 1 year warranty







Contents

- 1 x VBV-6170M monitor
- 1 x monitor sunshield 1 x monitor bracket
- 1 x VBV-6132C camera
- 1 x 20m/66' VBV-L4120 extension cable • Fitting kit

Features

- AHD 1080P/720P/CVBS
- 2 camera inputs • 1 auto trigger
- Multi-lingual menus

Picture Quality

- Monitor resolution: 1024X600
- Camera resolution: 1920x1080 AHD Contrast ratio: 500:1

• Brightness: 400 cd/m²

- · Monitor viewing angles:
- Side 70° x Top 45° Bottom 65°

Power consumption: 4.2 Watts

• Current: 0.4 Amps

- **Durability & Standards** • Mechanical vibration: 5.9G
- Operating temperature:
 -20 to +70°C / -4 to +158°F
- CE marked
- FCC approved

CAMERA MONITOR SYSTEM

ESSENTIAL

4766









VBV-650-000N - NTSC Camera monitor system

- · Camera Viewing angle (HxVxD)
- · Camera IP67
- · Camera Size (WxHxD) 65 x 59 x55mm 2.5 x 2.3 x 2 inches

81 x 59 x 108° NTSC

- Monitor Size (WxHxD) 150 x 99 x 31mm 6 x 4 x 1.2 inches
- 1 year warranty







Contents • 1 x VBV-650M monitor

- 1 x monitor bracket
- 1 x VBV-620C camera PAL or VBV-621C camera NTSC
- 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 consumption: 2 Watts

Durability & Standards

 Operating temperature: -10 to +70°C / 14 to +158°F











Adapter Cables

Model

Brigade

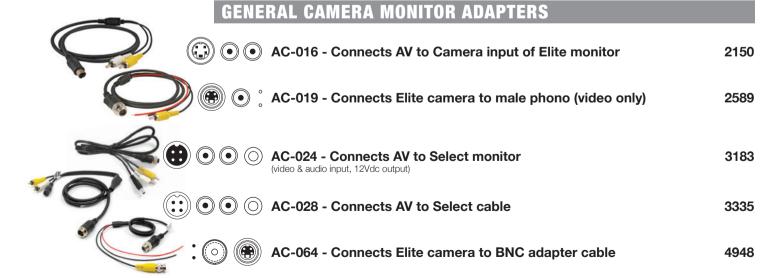
Part No:

Model	Part No:
BRIGADE CAMERA MONITOR ADAPTERS	
AC-006 - Connects Select camera (not shutter) to E	Elite cable 1983
AC-007 - Connects Select monitor to Elite cable	1984
AC-014 - Connects Elite camera to Select cable	2094
AC-014(5M) - Connects Elite camera to Select cabl	le, 5m/16.4' long 5049
AC-020 - Connects Elite monitor to Select cable	2590
AC-055(5M) - 5-pin to 4-pin Select cable, 5m long	4267
AC-306 - Splitter cable connects 1 x (Non HD) Selection MDR & monitor	ct camera to 4904
AC-307 - Splitter cable connects 1 x Elite camera to	o MDR & Monitor 4905
AC-H305 - Splitter cable connects 1 x BN360-300 c MDR & ECU	camera to 6648

MISO	CELLANEOUS 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

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OEI	M CAMERA MONITOR ADAPTERS	
	AC-041 - Connects Elite camera to John Deere 7-pin amp output	4245
	AC-042 - Connects Select camera to John Deere 7-pin amp output	4246
	AC-044 - Connects 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	5318
	□ = AC-24-12(002) - In-line 24/12Vdc converter - Elite camera to Mercedes monitor	4266
	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 lveco connect system	4762
	AC-24-12(008) - In-line 24/12Vdc converter - Select camera to Mercedes Sprinter	4763
	AC-24-12(010) - In-line 24/12Vdc converter - Select camera to Mercedes Actros/Arocs 2019> with J9P prep'	5907
A further range of OEM-s	specific adapters to connect Brigade cameras to factory-fit monitors is a	vailable



0805

SELECT HD

	Model		Part No:
	AI CAMER	A CABLES	Al
	VBV-AI801 VBV-AI805 VBV-AI810 VBV-AI815	 - 1m / 3' Al Camera extension cable - 5m / 16' Al Camera extension cable - 10m / 33' Al Camera extension cable - 15m / 49' Al Camera extension cable 	7489 7490 7508 7509
	VBV-AI820	- 20m / 66¹ Al Camera extension cable	7491
	AC-24-12(011)) - Power adapter for AI camera	5760
	ELITE HD	CAMERA CABLES	ELITE HD
	BE-H030 BE-H025 BE-H020	- 30m / 98' extension cable - 25m / 82' extension cable - 20m / 66' extension cable	7376 7375 7374
6 63	BE-H015	- 15m / 49' extension cable	7373
	BE-H012	- 12m / 39' extension cable	7372
	BE-H010 BE-H008	- 10m / 33' extension cable - 8m / 26' extension cable	7371 7370
	BE-H005	- 5m /16' extension cable	7369
	BE-H003	- 3m / 10¹ extension cable	7368
	BE-H001	- 1m / 3' extension cable	7367
	BE-H0003	- 0.5m / 1.6¹ extension cable	7366
	CAMERA T	TO MONITOR CABLES	ELITE
	BE-L130	- 30m / 98' cable	0800
	BE-L120	- 20m / 66' cable	0801
	BE-L115	- 15m / 49' cable	0802
	BE-L112	- 12m / 39' cable	3008
	BE-L110	- 10m / 33' cable	0803
	BE-L108	- 8m / 26¹ cable	3007
	BE-L105 BE-L101	- 5m /16' cable - 1m / 3' cable	0804 5042
	BE-L1003	- 0.3m / 1' cable	2797
	BL-E1000	- 0.01117 1 04010	
	ELITE CAI	MERA EXTENSION CABLES	ELITE
	BE-X025	- 25M / 82' extension cable	1907
	BE-X020	- 20m / 66' extension cable	1143
	BE-X015	- 15m / 49' extension cable	2101
	BE-X010	- 10m / 33' extension cable	2100
	BE-X005	- 5m /16¹ extension cable	2099

Model	Part No:
SELECT AHD CAMERA CABLES	SELECT HD
VBV-H430 - 30m / 98' cable VBV-H425 - 25m / 82' cable VBV-H420 - 20m / 66' cable VBV-H415 - 15m / 49' cable VBV-H412 - 12m / 39' cable VBV-H410 - 10m / 33' cable VBV-H407 - 7m / 23' cable VBV-H406 - 6m / 19.5' cable VBV-H405 - 5m / 16' cable VBV-H404 - 4m / 13' cable VBV-H405 - 2.5m / 8' cable VBV-H4005 - 0.5m / 1.5' cable	5511 5512 5513 5514 5515 5516 5517 5518 5519 5520 5521 5522 5523

MONITOR EXTENSION CABLE

VBV-XHFM003 - HD FM Monitor Extension Cable 3M for VBV-7104HFM 6445

- 3m / 10' extension cable

BE-X003

Articulated Vehicle Connection

Articulated Vehicle Connection

Brigade

Model				Part No:
TRUCI	K/TRAILER CABLE KIT		ELIT	i e
SK-31E -	• Truck and trailer cable kit - uniq Inclusive of SK-31E-T - Trailer kit	lue pin	layout	1830
	 BE-L110 - 10m/32.8' cable for cab SP-7A - 7-pin bulkhead socket for cab & cab-end camera connector 	0803	SK-31E-T - Trailer only kit BE-X020 - 20m/65.6' extension of for trailer	1886
SP-7A SC-7 SP-7B	(unique pin layout) • SC-7 - Coiled cable with 7-pin plugs (unique pin layout)	1827 1829	SP-7B - 7-pin bulkhead socket trailer & trailer-end camera con (unique pin layout)	for
TRUCI	K/TRAILER CABLE KIT		ELIT	E
SK-30E -	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	7564	• BE-X020 - 20m/65.6' extension of for trailer	cable 1143
SP-07C SC-07 SP-07T	SC-07 -Coiled cable with 7-pin plugs	1046	SP-07T - 7-pin bulkhead socket trailer & trailer-end camera cons	
	K/TRAILER CABLE KIT		ELIT	E
The state of the s	SK-15-01 - Truck and trailer cab	ole kit f	or three cameras	3427
	• SP-15A-01 - 15-pin bulkhead	3423	• SP-15B-01 - 15-pin bulkhead	3422

camera connectors

Model Part No:

TRUCK/TRAILER CABLE KIT

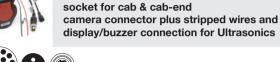
ELITE

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

3997







· SP-15A-04 - 15-pin bulkhead

• SP-15B-04 - 15-pin bulkhead 3956 socket for trailer & trailer-end camera connector plus stripped wires and display/ buzzer connection for Ultrasonics

SC-15-01 - Coiled shielded cable with 15-pin plugs

TRUCK/DRAWBAR TRAILER CABLE KIT

SK-50E-A - Truck only kit

ELITE

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

- unique pin layout Inclusive of SK-50E-A Truck kit and SK-31E-T trailer kit 1570









BE-L115 - 15m/49.2' cable for truck 0802 BE-X005 - 5m/16.4' extension cable 2099 for truck camera · CS-020 - Two way camera selector 1571

· SP-7A - 7-pin bulkhead socket for trailer & trailer-end camera connector (unique pin layout) 7566

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

1886 SK-31E-T - Trailer only kit

· BE-X020 - 20m/65.6' extension cable for trailer camera

SP-7B - 7-pin bulkhead socket for cab & cab-end camera connector (unique pin layout) 7567

socket for cab & 3 cab-end socket for trailer & 3 trailer-end camera connectors

SC-15-01 - Coiled shielded cable with 15-pin plugs

Articulated Vehicle Connection

Brigade

Part No: Model

TRUCK/TRAILER CABLE KIT

SELECT

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 · SC-15-01 Coiled shielded cable with 15-pin plugs

3268

TRUCK/ DRAWBAR TRAILER CABLE KIT

SELECT

VSK-50E - Truck and drawbar trailer cable kit for two cameras Inclusive of VSK-50E-A Truck kit and VSK-30E-T Trailer kit

2540



SC-07-24S

VSK-50E-A - Truck only kit

VSK-30E-T - Trailer only kit

2542

· VBV-L420 - 20m/65.61 cable for truck 1380 VBV-L405 - 5m/16' camera cable for

VCS-020 - Two-way camera selector 1844

· 1 x VSP-47A - 7-pin camera bulkhead socket for truck rear

SC-07-24S - Coiled cable with 7-pin sockets

VBV-L420 - 20m/65.6' cable for 1380

VSP-47B - 7-pin camera bulkhead socket for trailer

TRUCK/DRAWBAR TRAILER CABLE KIT

SELECT

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









VSP-47B

- VBV-L420 20m/65.6' cable for truck 1380 VBV-L520 - 20m/65.6' camera cable for truck camera
- VBV-L505 5m/16' camera cable for
- VCS-020 Two-way camera selector 1844
- 2 x AC-035 5-pin to 4-pin shutter camera adapter
- · VSP-57A 7-Pin bulkead socket for cab & cab-end camera connector
- · VSP-57B 7-pin bulkhead socket for trailer & trailer-end camera connector
- · SC-07-24S Coiled cable with 7-pin plugs

1227

Model Part No:

1827

2094

TRUCK/TRAILER CABLE KIT

SELECT

2539

2538

VSK-31E - Truck and trailer cable kit - unique pin layout



(Select connecton via supplied adapter cables)

VBV-L410 - 10m/32.8' cable for cab

- 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 (unique pin layout) 1829

VSK-31E-T - Trailer only kit 2543

- VBV-L420 20m/65.6' 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

Inclusive of SK-30E-T - Trailer only kit

SELECT



· VBV-L410 - 10m/32.8' cable for cab 1386 VSP-47A - 7-pin bulkhead socket for

cab & cab-end camera connector 1847 SC-07-24S - Coiled cable with

1227 type 24S 7-pin plugs

2542 VSK-30E-T - Trailer only kit

- · VBV-L420 20m/65.6' extension cable for trailer
- VSP-47B 7-pin bulkhead socket for trailer & trailer-end camera connector

SELECT

TRUCK/TRAILER CABLE KIT

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

3871







- · VBV-L510 10m/32.8' cable for cab
- · VBV-L520 20m/65.6' cable for trailer 3664
- VSP-57A 7-pin bulkhead socket for cab & cab-end camera connector
- · VSP-57B 7-pin bulkhead socket for trailer & trailer-end camera connector 3870
- · SC-07-24S Coiled cable with type 24S 7-pin plugs

Part No: Model

CAMERA MONITOR SYSTEM ANCILLARIES

ELITE

EDM-50 - Multi-camera module and screen splitter (Elite range connectors) 2152













Single Split Triple Quad Picture

12-24Vdc

· 4 camera inputs

Plus additional in-built

image options

Features

- Shutter camera compatible (inputs 1,2&3)
- AV input to accept DVD, sat nav or other
- 5 manual or auto-triggers for each camera
- On screen distance markers
- Mirror / Normal image switch for each
- Selectable camera audio
- Auto-scanning function
- Adapter required for Select range monitors

Power

- Power consumption: 20 Watts
- Current: 2A

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

CAMERA MONITOR SYSTEM ANCILLARIES

picture

ELITE

3666

7088

7089





SC-1000-ECU - Shutter camera module

- Allows BE-810C shutter camera to function on non-shutter enabled inputs on Elite range monitors (using Elite range cables)
- · Adapter required for Select range monitors
- · Current: 2A
 - · CE marked
 - · E-Marked: UNECE R10 compliant
 - · 2 year warranty

DIGITAL WIRELESS CONNECTION SYSTEM

DW-2000-TX - Digital Wireless Transmitter DW-2000-RX - Digital Wireless Receiver





- 1 camera input
- IP69K
- Size (WxHxD) 105 x 106 x 25.2mm 4.1 x 4.2 x 1 inches
- · 3 year warranty

Features

- CVBS, AHD 720P and 1080P compatible
- Image Latency: 200 milliseconds
- No need for retractable coiled cables • Reduces installation time
- Re-pair facility allows for interchangeable trailers
- · Triggered by reverse gear
- Up to two transmitters can be paired to one receiver
- TV System AUTO
- Secure connection
- Easy 1-button pairing
- VBV Select range connectors

Power

- Power consumption:
- TX: 1.04 Watts RX: 0.12 Watts

Durability & Standards

- Operating temperature:
- -20 to +70°C / -4 to +158°F
- CE marked
- FCC approved

Adapter required to connnect Elite range camera and monitor.

Model Part No:

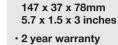
CAMERA MONITOR SYSTEM ANCILLARIES

SELECT HD

SS-H002 -High Definition Twin camera screen splitter (Select range connectors) 7178







Single

12-24Vdc

· 2 camera inputs

· Size (WxHxD)



Features

- AHD and CVBS compatible
- Offers split-screen option for monitors without in-built functionality
- 3 trigger inputs per camera
- Shutter camera compatible with adapters (Elite - TS-1000-ECU) (Select - AC-035)
- TV System: NTSC/AHD1/AHD2
- Manual Mirror/Normal switching choose from horizontal normal/mirror or vertical normal/flip
- Short circuit protection on camera inputs
- · Reverse polarity protected

Adapter required for Elite range monitors

• Current: 0.8 Amps

Durability & Standards

- Mechanical vibration: 3G
- Mechanical shock: 51G
- Operating temperature: -30 to +80°C / -22 to +176°F
- CE marked
- E-Marked: UNECE R10 compliant
- UKCA marked
- FCC approved
- IC approved

CAMERA MONITOR SYSTEM ANCILLARIES



• 12-24Vdc

LS-60-A - Speed switch

- 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

Power

- Power consumption: 21.6 Watts Max current: 1.8 Amps
- Switch Output max, current: 1.2 Amps

• Mechanical shock: 50G • Operating temperature: -40 to +85°C / -40 to +185°F

Durability & Standards

• Mechanical vibration: 10G

• E-Marked: UNECE R10 compliant

Notes:

CE marked

A relay is required if connected to a device that is higher than 1.2 Amps

CAMERA MONITOR SYSTEM ANCILLARIES



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

1571 1844

- Allows a 2nd camera to be connected to a monitor
- · 2nd camera view selected by trigger wire
- Full screen view only
- · 2 year warranty

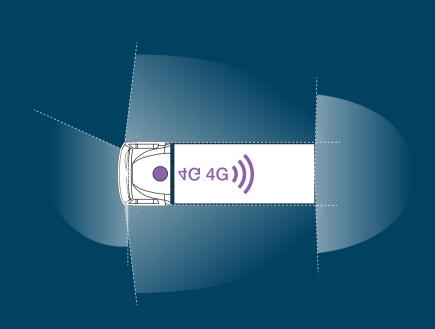
Mobile Digital Recording

Brigade's Mobile Digital Recording (MDR) systems are capable of capturing vehicle data and footage from up to 16 vehicle-mounted cameras.

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.

MDRs are compatible with all Brigade's Backeye® camera monitor systems, IP cameras and Backeye®360.

Dash Cams - compact, combined camera and recording systems that provide evidence in the case of vehicle incidents. The palm-sized devices are easily attached to the windshield, enabling recording of the road ahead and in cab.





Model

• 9-32Vdc

4 x Analogue &

I ockable and

· Size (WxHxD)

190 x 70 x 206mm

· 3 year warranty

7.5 x 2.8 x 8.1 inches

1 x IP camera inputs

· 8 trigger/alarm inputs

interchangeable storage unit

Fast, easily downloadable

recordings and data

Model Part No:

MOBILE DIGITAL RECORDER 600 SERIES

6570 MDR-644-1-CMR - 8 channel 1TB hard drive recorder



MDR-644GW-1-CMR - 8 channel 1TB hard drive recorder with WiFi & 4G 6574 MDR-644GW-2-SSD - 8 channel 2TB solid-state drive recorder with WiFi & 4G 6589



- 9-32Vdc
- 4 x Analogue & 4 x IP camera inputs
- Supports up to 12 cameras using external PON Switch
- Size (WxHxD 190 x 82 x 222mm 7.5 x 3.2 x 8.7 inches
- · 8 trigger/alarm inputs
- Lockable and interchangeable storage unit
- Fast, easily downloadable recordings and data
- · 3 year warranty

- 1 x MDR-644 Mobile Digital Recorder
- Wired Mouse
- GPS Antenna
- 4G Network Antenna (G & GW models)
 - Wi-Fi Antenna (GW models)
 - USB A to B Cable
 - Security Key
 - Bracket & Fixings

Features

- Mobile apps for remote view (WiFi/4G models only)
- Anti-vibration mounting for reliable recording
- 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)
- (speed, G-force, motion detection, video loss, voltage)
- MDR-Player (portable) with Google (English only)

- Input / Output Cable
- Power Cable

- · Remotely access MDR units using wireless (WiFi models only) and/or Mobile network (4G models only)
- Geo-fencing (4G models only)
- Mobile Standards: 3G/4G
- Audio (cameras must have microphones) Robust aluminum housing
- Built-in GPS

- Configurable alarm trigger settings
- Record images prior to alarm activation and after vehicle switched off
- MDR-Dashboard (full player) and

• 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.265 image compression
- ADPCM audio compression
- Choice of 8 low to high resolution settinas
- Record at between 1 and 25 frames per second, per channel

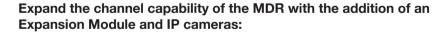
Power

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

Durability & Standards

- Mechanical vibration: SSD 3.1G
- Mechanical shock: 51G
- Operating temperature: CMR -40 to +50°C / -40 to +122°F SSD -40 to +70°C / -40 to +158°F
- CE marked • FCC approved
- E Mark
- IC approved

OPTIONAL EXTRA



IP-EM4 - PON Expansion Module adds 4 channels to MDR-644 = 12 channels 5860

MOBILE DIGITAL RECORDER 600 SERIES

- 5 channel 1TB hard drive recorder MDR-641-1-CMR

7068

7072

Part No:





MDR-641GW-1-CMR - 5 channel 1TB hard drive recorder with WiFi & 4G

• 1 x MDR-641 Mobile Digital Recorder

• 4G Antenna (G and GW models)

• Remotely access MDR units using

wireless (WiFi models only) and/or

Mobile network (4G models only)

• Geo-fencing (WiFi/4G models only)

• Audio (cameras must have microphones)

• Recordings saved to hard disk or SSD

• Recording modes: normal, alarm and

• Configurable alarm trigger settings

· Mobile apps for remote view

(WiFi/4G models only)

(watermark protected)

timer (all watermarked)

Robust housing

Internal G-sensor

loss, voltage)

Required to download data from storage

• GPS

• Mobile Standards: 3G/4G

Wi-Fi Antenna (GW models)

Main Contents

• Input / Output Cable

CMS adapter cable

Bracket and Fixings

• Wired Mouse

Power Cable

GPS Antenna

Security Key

Features

Multi-level password protected access

• 8 x trigger Inputs, 2x trigger outputs and

1x power output Built-in HDD heater

• MDR Control using USB Mouse

• USB 3.0 connection

• TV System: PAL/NTSC/AHD

 Compatible with Brigade's vehicle CCTV camera monitor systems, IP cameras and Backeve®360 systems

Image and Audio Quality

• High quality H.265 image compression • ADPCM - audio compression

• Choice of 8 low to high resolution

 Record at between 1 and 25 frames per second, per channel

Power

• Max power consumption: 22 Watts

Durability & Standards • Mechanical vibration: SSD 3.1G

Mechanical shock: 51G

 Operating temperature: CMR -40 to +50°C / -40 to +122°F

SSD -40 to +70°C / -40 to +158°F • CE marked

• E Mark

 Record images prior to alarm activation and after vehicle switched off MDR-Dashboard (full player) and

(speed, G-force, motion detection, video

(English only) · Search by date, time or triggered events FCC approved • IC approved

MDR-Player (portable) with Google

RECOMMENDED EXTRA

MDR-MCU-R-01 MDR Reader and cable for PC

Model Part No:

MOBILE DIGITAL RECORDER 500 SERIES

6437 MDR-508-2-G2-SSD - 8 channel 2TB solid-state drive recorder



MDR-508GW-1-G2-CMR - 8 channel 1TB hard drive recorder with WiFi & 4G 6252 MDR-508GW-2-G2-SSD - 8 channel 2TB solid-state drive recorder with WiFi & 4G 6441



- 9-32Vdc
- 8 camera inputs -Supports AHD High definition cameras
- 8 trigger/alarm inputs
- Lockable and interchangeable storage 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

Note:

G2 MDR-500 Series hard drives SSD and SD cards are NOT interchangeable with previous MDR-500 Series models unless a firmware and software update has been carried out, HDD SSD & SD cards also need formatting. See website for further details

Main Contents

- Mobile Digital Recorder with storage 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 for reliable
- recording • Built-in GPS
- Internal G-sensor and built-in buzzer
- Recordings saved to hard disk or SSD (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 GDPR compliant password protected access
- Storage 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
- 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: 80 Watts

Current: 6.6 Amps

Durability & Standards

- Mechanical vibration: 1G
- Mechanical shock: 51G
- SSD vibration: 2.2G Operating temperature:
- CMR -40 to +50°C / -40 to +122°F SSD -40 to +70°C / -40 to +158°F
- E-Marked: UNECE R10 compliant
- CE marked
- FCC approved
- RoHS2 Compliant

Model

- · 4 or 8 IP camera inputs
- · Size (WxHxD)

· 12-24Vdc

- 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 vear warrantv

Features

- · Expands the channel capability of the MDR by enabling the addition of IP cameras
- IP-EM4 adds 4 channels to MDR-508 IP-EM8 - adds 8 channels to MDR-508 IP-EM4 - adds 4 channels to MDR-644

• CE marked

- E-Marked: UNECE R10 compliant
- IC approved

OPTIONAL EXTRA



Expand the channel capability of the MDR with the addition of an **Expansion Module and IP cameras:**

IP-EM4 - Expansion Module adds 4 channels to MDR-508 = 12 channels 5860

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

IP-1XXX-PC - IP Camera - Power & Ethernet Cable

5985

5861

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 onboard storage.

See pages 16-17 for the range of IP cameras

Brigade Expansion Modules use Power Over Network (PON) Switch technology to expand the channel capability of the MDR by transmitting digital video images from up to 8 IP cameras over a single ethernet cable to the MDR. The MDR on-screen display allows easy camera set-up without the need for specific IP camera knowledge

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

MDR-641 - 4 x Analogue channels plus 1 x IP channel MDR-508 - 8 x Analogue channels plus 1 x IP channel MDR-644 - 4 x Analogue channels plus 4 x IP channels MDR-644 and 4 x PON switch

- 4 x Analogue channels plus 8 x IP channels MDR-508 and 4 x PON switch - 8 x Analogue channels plus 4 x IP channels MDR-508 and 8 x PON switch

IP EXPANSION MODULES

IP-EM4 - PON 4-channel switch

IP-EM8 - PON 8-channel switch

- 8 x Analogue channels plus 8 x IP channels

Part No:

5860

5861

= 5 channels

= 9 channels

= 8 channels

= 12 channels

= 12 channels

= 16 channels

• Power consumption: 3 Watts

Durability & Standards

- · Mechanical vibration: 2.3G
- Mechanical shock: 150G
- Operating temperature: -40 to +70°C / -40 to +158°F
- FCC approved

IP EXPANSION MODULE ACCESSORIES



IP-EC-1 - CAT5E Ethernet cable 1m / 3.3' IP-EC-5 - CAT5E Ethernet cable 5m / 16.4'

IP-EM-PC - MDR-PON Power cable

5865

5866

5864

Part No: Model MOBILE DIGITAL RECORDER ACCESSORIES



AC-305	- Splitter cable connects 1 x Backeye®360 BN360-200 camera to MDR & ECU	4903
AC-H305	- Splitter cable connects 1 x BN360-300 camera to MDR & ECU	6648
AC-306	- Connects 1 x Select camera to MDR and monitor	4904
AC-307	- Connects 1 x Elite camera to MDR and monitor	4905
AC-075	- Select Range Adapter cable female to female	7020
MDR-USB-A-01	 USB 3.0 cable Type A to Type A connectors For MDR-641 models only 	7056
MDR-RP02	- Remote status & interface panel with panic button	6016
MDR-04RPC	- 6m/19.7' cable for Remote status & interface panel	6018
MDR-AC-ACC-01	- Adapter cable for remote panel For MDR-641 models only	7051
MDR-MCU-R-01	- MCU reader for PC For MDR-641 models only	7053





	ader for PC 1 models only	7053
	Fi & 4G upgrade Expansion Module DR-508 models only. SD card not included	5506
	Fi upgrade Expansion Module DR-508 models only. SD card not included	5311
MDR-500-1-MCU-G2-CMR	- Caddy unit with 1TB CMR For MDR-504 & MDR-508 models only	6243
MDR-500-0.5-MCU-G2-SSD	- Caddy unit with 500GB SSD For MDR-504 & MDR-508 models only	6201
MDR-500-1-MCU-G2-SSD	- Caddy unit with 1TB SSD For MDR-504 & MDR-508 models only	6202
MDR-500-2-MCU-G2-SSD	- Caddy unit with 2TG SSD For MDR-504 & MDR-508 models only	6203
MDR-644-1-MCU-CMR	- Caddy unit with 1TB CMR For MDR-644 models only	6615
MDR-644-1-MCU-SSD	- Caddy unit with 1TB SSD For MDR-644 models only	6617
MDR-644-2-MCU-SSD	- Caddy unit with 2TB SSD For MDR-644 models only	6618
MDR-641-1-MCU-CMR	- Caddy unit with 1TB CMR For MDR-641 models only	7060
MDR-641-1-MCU-SSD	- Caddy unit with 1TB SSD For MDR-641 models only	7061
MDR-641-2-MCU-SSD	- Caddy unit with 2TB SSD For MDR-641 models only	7062
SD-32GB-IND - 32GB indu	strial grade Class 10 SD card	4875
SD-64GB-IND - 64GB indu	strial grade Class 10 SD card	4876

Model Part No:

DASH CAM RECORDER

DC-102-RVC -Dash Cam and rear-view camera - Canada 7026 DC-102-RVC -7024 Dash Cam and rear-view camera - USA



· 12-24Vdc

- · In-built camera
- · 1 external camera input
- Fast, easily downloadable recordings and data
- Dash Cam Size (WxHxD) 78 x 34.6 x 31.5mm
- · Rear-view Camera size (WxHxD) 61 x 30.5 x 25mm
- 1 year warranty

Contents:

- 1x Dash Cam Recorder
- 1x GPS Antenna
- 1x Mounting Bracket, adhesive pads

Features

- 1080p High definition video capture
- Wide dynamic range for improved detail
- Audio
- External GPS receiver
- formatting of video files

- 1x 3m Hardwire cable

- Up to 4 hours recording on supplied micro
- Continuous recording with automatic
- overwriting of oldest data

- Wide-angle camera lens 140°

- FAT (File Allocation Table) system eliminates the need for manual

- 1x Rear-view camera & 6m camera

- and clips
- 1 x 32Gb Micro SD card
- 1x Micro SD to SD adapter
- 1x Quick start guide

- in shadow and highlights
- SD card (supports up to 64Gb)

- 4 recording modes: • Continuous - Records in 1min
- segments
- Incident Records 10 seconds before and after an incident
- Manual Records 10 seconds before and 50 seconds after manually starting recording
- Parking mode Requires hard wiring
- Infrared LEDs for ultra-low light
- performance (Infrared camera only) • Adjustable camera angle (rear-view

camera only)

- **Picture Quality** • Sensor: 2.1 M Pixel 1/2.7" CMOS
- Dash Cam video resolution:
- FHD 1920 x 1080
- Rear-view camera video resolution: HD 1280x720
- MP4 image compression
- Fast frame rate, 30 frames per second

Durability & Standards

- Operating temperature: -10 to +60°C
- CF marked

DASH CAM RECORDER

DC-102-IRC -DC-102-IRC -Dash Cam and internal Infrared LED camera - USA

Dash Cam and internal Infrared LED camera - Canada

7029 7027



· 12-24Vdc

- · In-built camera

· 1 external camera input

- Fast, easily downloadable
- recordings and data Dash Cam Size (WxHxD) 78 x 34.6 x 31.5mm
- · Infrared Camera size (WxHxD) 61 x 30.5 x 25mm
- · 1 year warranty

Contents:

- 1x Infrared LED Camera & 0.6m camera
- 1x GPS Antenna
- 1x 3m Hardwire cable
- 1x Mounting Bracket, adhesive pads

• 1x Quick start guide

- Wide dynamic range for improved detail
- Up to 4 hours recording on supplied micro
- Continuous recording with automatic overwriting of oldest data
- External GPS receiver
- FAT (File Allocation Table) system eliminates the need for manual

- 1x Dash Cam Recorder

- and clips • 1 x 32Gb Micro SD card
- 1x Micro SD to SD adapter

Features

- 1080p High definition video capture
- Wide-angle camera lens 140°
- in shadow and highlights SD card (supports up to 64Gb)
- Audio
- formatting of video files

- 4 recording modes:
 - Continuous Records in 1min
 - seaments • Incident - Records 10 seconds before
 - and after an incident • Manual - Records 10 seconds before and 50 seconds after manually starting
 - recordina Parking mode - Requires hard wiring
 - Infrared LEDs for ultra-low light performance (Infrared camera only)
 - · Adjustable camera angle (Infrared camera only)
 - **Picture Quality** • Sensor: 2.1 M Pixel 1/2.7" CMOS
 - Dash Cam video resolution: FHD 1920 x 1080 • Infrared camera video resolution:
 - HD 1280x720 • MP4 image compression
 - Fast frame rate, 30 frames per second **Durability & Standards**
 - Operating temperature: -10 to +60°C CF marked



Part No: Model

DASH CAM RECORDER

DC-101-003 Dash Cam - Canada DC-101-001 - Dash Cam - USA

7030 6560



· 12-24Vdc

- · In-built camera
- 1 video output
- Fast, easily downloadable recordings and data
- Size (WxHxD) 78 x 34.6 x 31.5mm
- 1 vear warranty

Contents:

- 1x Dash Cam Recorder • 1x GPS Antenna
- 1x 3m Hardwire cable
- 1x Mounting Bracket, adhesive pads
- and clips
- 1x 16Gb Micro SD card
- 1x Micro SD to SD adapter • 1x Quick start guide

Features

- 1080p High definition video capture • Wide-angle camera lens 140°
- Wide dynamic range for improved detail
- in shadow and highlights • Up to 4 hours recording on supplied micro
- SD card (supports up to 64Gb) • Continuous recording with automatic overwriting of oldest data
- External GPS receiver
- FAT (File Allocation Table) system eliminates the need for manual formatting of video files
- Front Vehicle departure warning

• 4 recording modes:

- Continuous Records in 1min seaments
- Incident Records 10 seconds before and after an incident
- Manual Records 10 seconds before and 50 seconds after manually starting recording
- Parking mode Requires hard wiring

Picture Quality

- Sensor: 2.1 M Pixel 1/2.7" CMOS
- Video resolution:
- FHD 1920 x 1080
- MP4 image compression
- Fast frame rate, 30 frames per second

Durability & Standards

- Operating temperature: -10 to +60°C

Al Connected dashcam

The AI Connected Dashcam is a compact, windshield-mounted dual camera system that uses AI technology to provide event warnings, high-definition incident recording and monitor driver behavior.

The forward-facing camera will identify and audibly alert a driver to a hazardous situation, such as a risk of colliding with the vehicle ahead or an unsignalled lane departure.

The driver-facing camera will identify issues such as mobile use, smoking and inattention.

- 1920P forward facing and 1080P driver facing cameras for clearer identification of registrations, faces and incident detail
- Supports up to 1TB storage capacity (256GB supplied)

12-24Vdc

- Built-in 4G allows operators to monitor fleets on the move (Subscription required) via a Dashboard or mobile app, and to remotely live stream or download recorded footage
- Simple installation and calibration
- Enhanced G sensor detects harsh braking, cornering and acceleration events
- Event notifications sent to the dashboard or app to alert fleet managers to high risk incidents

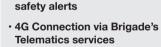
Model **Part No:**

AI CONNECTED DASHCAM

DC-204-AI(NA) - Connected Dashcam with AI

7487





· Fast, easily downloadable recordings and data

In-built dual cameras:

front and driver facing

· Built-in ADAS and driver

 Supports 2 additional cameras - additional cable required

Size (WxHxD) 113 x 88 x 68mm 4.4 x 3.5 x 2.7 inches

1 vear warrantv

Contents:

• 1 x Dash Cam Recorder • 2 x 128Gb Micro SD card

• 1 x Power lead

1 x Mounting Bracket

• 1 x Power box with cable

• 1 x Torx driver

Features

module

• 170° driver facing camera lens

• 140° forward facing camera lens Wide dynamic range for improved detail

in shadow and highlights • Built-in WiFi and 4G communication

• Built in ADAS function:

- Lane Departure Warning (LDW)

- Forward Collision Warning (FCW) - Headway Monitoring Warning (HMW)

- Digital Cockpit Safety (DCS) to detect unsafe driving behavior • Built in 6-axis G-Sensor for harsh acceleration, deceleration, cornering and

Built-in GPS receiver

incident detection • 3 recording modes: - Continuous: Records in 1min

seaments - Timer: Records to schedule accurate to the second

- Pre-alarm from 1-to 60 minutes

- Post-alarm from 1-30 minutes Individual channel configurations for recording resolution, frame rate and

• Supports up to 1TB storage capacity

Audio

• Continuous recording with automatic

overwriting of oldest data • Supports CBVS monitors (additional

cable required)

Picture Quality

• 5 M Pixel 1/2.7" CMOS sensor forward facing camera • 2 M pixel 12.9 CMOS sensor Driver

facing camera

• 1080p driver facing HD video capture • 1920p forward facing HD video capture

Fast frame rate, 30 frames per second

• Power consumption: 12.66 Watts

Durability & Standards • Operating temperature:

-40 to +70°C / -40 to +158°F

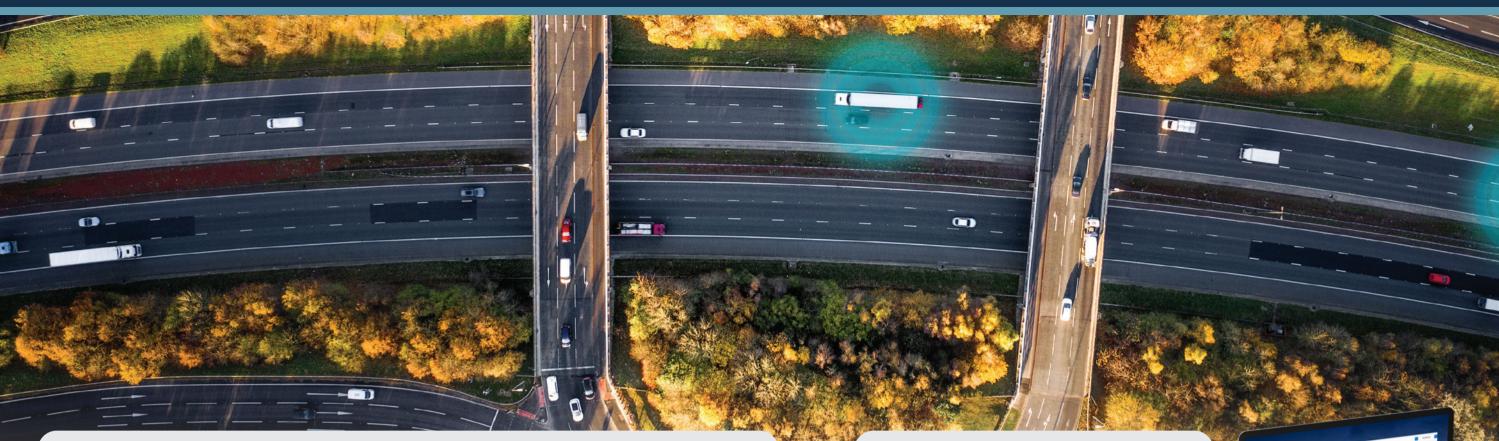
CF marked

 FCC approved IC approved

• E-marked: UNECE R10 compliant

NOTES:

In order to provide full functionality and maximum fleet manager benefit, the Al connected dashcam is only sold with a monthly subscription. Contact us for further details.



Integration with GEOTAB

Enhance your fleet management capabilities with our cutting-edge software integration for Geotab. Designed to provide a seamless user experience, this integration brings powerful features and real-time insights directly to your Geotab platform, empowering you to optimize operations, improve safety, and reduce costs.

Key Features

Driver Analysis: Monitors distracted driving behaviors like phone use and smoking.

Road Events: Identifies critical road events and provides real-time alerts.

Automated Video Download: Integrates with Geotab to auto-download video clips based on specific driving events like harsh braking and rapid acceleration.

Comprehensive Event Logging: Logs detailed driving events with corresponding video footage for thorough review.

User-Friendly Interface: Intuitive dashboard with event list, video player, and filters for easy access and analysis.

Integration with Existing Systems: Seamlessly integrates with Geotab telematics and Brigade Electronics equipment.

Benefits

Enhanced Safety: Improves fleet safety by identifying risky driving behaviors and road conditions, reducing accident likelihood.

Incident Analysis and Resolution: Provides clear video evidence for incident analysis and quick resolution of disputes and claims.

Operational Efficiency: Streamlines access and review of critical video footage, saving time and resources, and integrates data into a single platform.

Driver Behavior Improvement: Encourages safer driving habits through monitoring and feedback, supporting targeted training programs.

Regulatory Compliance: Ensures compliance with safety regulations and facilitates the creation of compliance reports.

Cost Saving: Reduces accident and insurance claim costs and minimizes vehicle downtime through efficient incident resolution.

Multi-Channel Camera Integration

Our telematics platform offers the advanced feature of accessing multi-channel camera feeds from your vehicle, providing comprehensive real-time visual monitoring.

This capability allows you to view and manage footage from multiple cameras installed on your vehicle, ensuring complete coverage of its surroundings. Whether for enhancing security, verifying incidents, or improving driver behavior, this feature delivers critical insights and situational awareness, all accessible from a single, user-friendly interface.

Experience heightened control and visibility over your fleet operations with our multi-channel camera integration.

Seamless Integration: Our software seamlessly integrates with your existing Geotab platform, ensuring a smooth transition and immediate benefits without disruption to your operations. Trust our integration to elevate your fleet management and drive your business forward.

Experience the Future of Fleet Management: Unlock the full potential of your fleet with our advanced software integration for Geotab. Contact us today to learn more and schedule a demonstration.



Find us on the **Geotab Marketplace**

Object Detection Systems

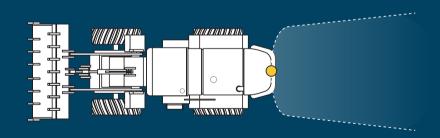
Object detection systems detect stationary and moving objects, providing in-cab visual and audible warnings, alerting the operator or driver whose attention cannot be focused on all danger areas.

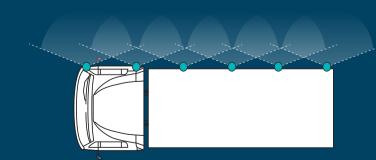
Backsense® heavy-duty radar sensor systems are designed for heavy-duty machines to detect objects in blind spots. Available with fixed and programmable detection ranges.

Ultrasonic detection sensors To 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. An optional external speaking alarm can be added to alert cyclists and pedestrians that the vehicle is turning.

Detection systems with AI are algorithm-based systems that predict if a collision is likely to occur and alert the driver depending on the severity of the calculation.

ZoneSafe® uses Radio Frequency Identification (RFID) technology to create detection zones around vehicles and mobile plants. Vehicle mounted antennas detect RFID tags which can be worn by workers, placed on objects or property, or set up around restricted areas.





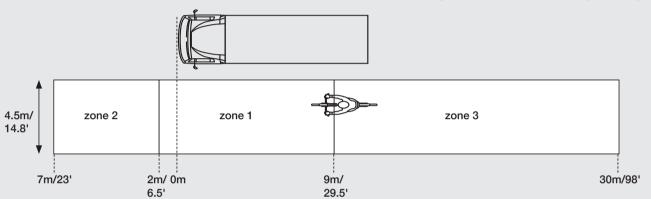


Radar Predict: Artificial Intelligence blind spot detection

Brigade's Radar Predict is the latest innovation in side-detection safety, specifically designed to protect cyclists from collisions with HGVs. The advanced radar system uses Al technology to detect a potential collision by analyzing data such as speed and direction of both the vehicle and cyclist. By differentiating between static and moving objects, the Radar Predict algorithm alerts the driver only when an impact with a cyclist is likely.

The single dual-radar unit is fitted to the nearside of the truck and gives complete coverage to the side of the vehicle, including the trailer unit. The driver is alerted if a cyclist enters a detection zone and receives a second warning if a collision is predicted.

- 180° Cyclist side detection
- Detection area of 4.5m/14.8' x up to 37m/121'
- · Calculates if a collision is likely in the nearside
- Suitable for Rigid AND articulated vehicles
- · Quick and easy installation
- Available for left and right side applications
- · Meets Reg151 requirements
- · Complies with PSS DVS Independently tested



Model Part No:



RADAR PREDICT AI SENSOR SYSTEM

7500 RP-001 - 77GHz Radar Predict sensor system with AI - Left side

RP-010 - 77GHz Radar Predict sensor system with AI - Right side 7625 (for left-hand drive vehicles)



· 9-32Vdc

- Detection length: 46m/151¹
- Detection width: 4.5m/14.8
- · Sensor size (WxHxD) 115 x 95 x 41mm 4.5 x 3.7 x 1.6 inches
- Sensor size with bracket (WxHxD) 200 x 110 x 43.5mm 7.9 x 4.3 x 1.7 inches
- Display size with bracket (WxHxD) 131 x 63 x 42mm 5 x 2.5 x 1.6 inches
- · IP69K sensor
- 3 year warranty

Contents

- 1 x dual radar sensor unit
- 1 x Inertial measurement unit module
- 1 x display
- 1 x radar bracket
- Radar cable

Features

- 180° cyclist side detection
- · Calculates if a collision is likely in the nearside blindspot
- · Covers nearside of a vehicle
- 3 stage Visual alert when a cyclist is detected · Audible and visual alert when collision is
- predicted • Differentiates between cyclists and
- vehicles/other road users • Designed for rigid and articulated
- vehicles
- System active under 30Km/h Quick and easy installation
- Compact and rugged design for harsh
- environments
- Automatic trailer recognition • Operating frequency: 76-77GHz
- Adjustable display volume

- · Operating temperature:
- IC approved
- Meets 2024 Direct Vision Standard BSIS

• Power consumption: 6.5 Watts

Durability & Standards

- -40 to +85°C / -40 to +185°F
- CE marked
- FCC approved
- E-Marked: UNECE R10 compliant
- Complies with UNECE reg151 requirements

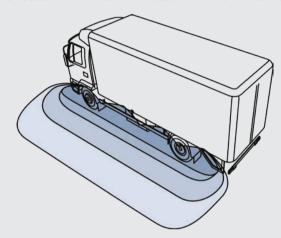
Flexible side detection

Sidescan®Flex

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 meters / 8.2 feet.



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	8	8	8	8
0.6 - 0.9m	Beeps per second	Constant	4	4	4
2 - 3'	Flashes per second	8	8	8	8
0.9 - 1.5m	Beeps per second	4	-	-	1
3 - 4.91	Flashes per second	4	4	4	4
1.5 - 2.5m	Beeps per second	1	-	-	-
4.9 - 8.21	Flashes per second	1	1	-	-

Model **Part No:**

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

OPTIONAL EXTRA

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

prevents false alarms from ancillary equipment that intrudes in the first 100cm

5916

6075

Durability & Standards

(3.3') of the detection zone

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

Power

IP69K

 Power consumption: 2.4 Watts

Current: 200mA



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

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

4216

4215

51

To power a device switched by the output trigger

Part No: Model

SIDESCAN® ULTRASONIC DETECTION SYSTEM

SS-4100W -5257 Sidescan® Side sensor system with mute function SS-4100W-000 - Sidescan® Side sensor system with mute function, 5344 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)

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/14.7' sensor cables • 2 x 2.5m/8.2' extension

Features

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

· Buzzer will silence after

the detection zone Self-diagnostic function

ancillary equipment that intrudes in the first 100cm of

- **Durability & Standards** Mechanical vibration: 5G
- Mechanical shock: 10G
- Operating temperature: -30 to +80°C / -22 to +176°C
- Waterproof control box to
- IP69K
- CF marked
- E-Marked: UNECE R10 compliant
- FCC approved

Power

 Power consumption: 2.4 Watts

4752

Current: 200mA



ESCAN®/SIDESCAN®FLEX ADDITIONS FOR ARTICULATED VEHICLES

SK-15-04	Truck/trailer camera/sensor cable kit	3997
SK-UDS-05	Truck/trailer sensor only cable kit (required)	4219
UDS-10BC	10m display cable (required)	3716
SS-4100W	Additional Sidescan sensor system for cab (optional)	5257

SIDESCAN®/SIDESCAN®FLEX RECOMMENDED EXTRAS

LS-60-A	Low speed trigger module	4851
	Enables sensors below designated speed	

TS-001ECU Turn indicator trigger for system activation 1362

SIDESCAN®/SIDESCAN®FLEX OPTIONAL EXTRA

SS-BC-08	Backchat speaking alarm with side turn	1334
	warning for cyclists/pedestrians	
	Note: TS-001ECLI Turn indicator trigger is required	

Latched auto-reset Backalarm cut-out (dash mount)

Ultrasonic Detection Systems

Brigade

Model Part No:

BACKSCAN® ULTRASONIC DETECTION SYSTEM

BS-4000W - Backscan® Rear reversing sensor system

· 4 sensor system

fixings included

dip switch)

3 year warranty

· 2.5m detection range -

outer sensors 2.5m/0.6m

(selectable via dip switch)

distance warning display

· Graduated visual and audible

Underslung and flush-mount

50cm compensation range

vehicle rear (selectable via

for sensors fitted inboard of

· 12-24Vdc

3744



- Visual and audible display • 4 x 0° flush mount fixings
- 4 x 11° flush mount fixings
- 4 x underslung fixings
- Waterproof control box • 15m display cable
- 4 x 2.5m sensor cables

Features

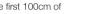
- Obstacles detected in under 200 milliseconds
- Environment Learning Mode prevents false alarms from tow-hooks and other ancillary equipment that intrudes in the first 100cm of the detection zone
- Self-diagnostic function
- 1 x Trigger output

Durability & Standards

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

Power

- Power consumption:
- 2.4 Watts Current: 200mA





•	SK-15-04	Truck/trailer camera/sensor cable kit	3997
	SK-UDS-05	Truck/trailer sensor only cable kit	4219
	UDS-10BC	10m Buzzer/display cable	3716

OPTIONAL EXTR*i*

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 output trigger	4216

Part No: Model

FRONTSCAN® ULTRASONIC DETECTION SYSTEM

FS-4000W - Frontscan® Front sensor system

3747



- · 4 sensor system
- 12-24Vdc
- 2.0m/1.0m (6.8¹/3.2¹) detection range - outer sensors can be reduced to 0.6m (2') (selectable via dip switches)
- Audible distance warning
- Flush-mount
- 3 vear warrantv

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

Power

- Power consumption: 2.4 Watts
- Current: 200mA

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



RECOMMENDED EXTRA

LS-60-A Low speed trigger module 4851

4215

4216



OPTIONAL EXTRA

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

Enables sensors below designated speed

Trigger-out diode protected relay 12Vdc

To power a device switched by the output trigger

CORNERSCAN® ULTRASONIC DETECTION SYSTEM

CS-3100 - Cornerscan® Corner sensor system with mute function

5261



· 3 sensor system

- · 12-24Vdc
- · 0.6/1.0m (2/4') detection range - (selectable via dip switch)
- Audible distance warning
- Flush-mount
- · 2 levels of sensitivity -(selectable via dip switch)
- 3 year warranty

Contents

- 3 x sensors
- Buzzer
- 3 x 11° flush mount fixings • 3 x 18° flush mount fixings
- 3 x 26° flush mount fixings
- Waterproof control box
- 2.5m/8' buzzer cable
- 3 x 2.5m/8' 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 within 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 consumption: 2.4 Watts
- Current: 2 Amps

RECOMMENDED EXTRA

LS-60-A

Low speed trigger module Enables sensors below designated speed

4851

Model Part No:

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



· 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 of the detection zone

5262 5345

- 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
- **IPAGK**
- 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 4851



EXTENSION CABLES

UDS-2.5BC - Buzzer/display extension cable 2.5m/8.2	3717
UDS-10BC - Buzzer/display extension cable 10m/33 ^t	3716
UDS-15BC - Buzzer/display extension cable 15m/49 ^t	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/231	5623



Ultrasonic Detection On-Screen Display Module

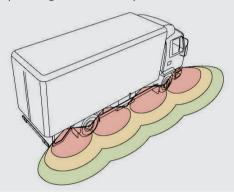


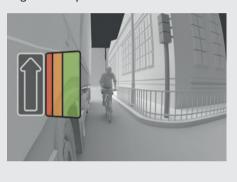
- Integration of Brigade's ultrasonic obstacle detection systems and Backeye® camera monitor systems
- Ultrasonic detection warnings overlaid onto
- Reduced driver stress and distractions as all information is in one view

Sensor data and camera image combined

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.



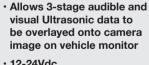


Model Part No:

ULTRASONIC ON-SCREEN DISPLAY MODULE

UDS-OSD20-ECU - On-screen display module PAL 5099 UDS-OSD21-ECU - On-screen display module NTSC 5347





- 12-24Vdc
- · 2 camera inputs
- · 2 trigger inputs
- 2 UDS inputs
- · 2 UDS outputs
- 2 vear warrantv

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

- Compatible with 1x Sidescan® Frontscan® and Backscan®
- UDS overlay will appear on a black background if no cameras installed
- Graphics can be overlaved. left or right on the monitor
- · Audible warning via monitor
- displayed on monitor

Durability & Standards

- Mechanical vibration: 5G
- Mechanical shock: 10G
- Operating temperature:
- -30 to +70°C / +22 to +158°F
- Dimensions (WxDxH):
- 74 x 118 x 28 mm 2.9 x 4.6 x 1.1 inches
- CF marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- IC Approved

Power

- Power consumption: 1.7 Watts
- Current: 140mA

Note: Not compatible

Model Part No:

BS-8100 - 77GHz Programmable detection range

7135

7248



• 9-32Vdc · Detection length: up to 60m (minimum programmable

- distance 0-3m / 0-9.8') · Detection width: 2 to 16m / 6.6 to 52.5'
- · Rugged design for harsh environmental conditions
- Sensor size (WxHxD) 160 x 100 x 40mm
- · Display size with bracket (WxHxD) 101 x 71 x 70mm
- · IP69K sensor
- · 3 year warranty

- 1 x Configurable radar sensor
- 1 x Audible and visual display with USB socket and mounting bracket
- 1 x 9m/29 5' extension cable
- 1 x Mini USB cable

PROGRAMMABLE BACKSENSE® OBJECT DETECTION SYSTEM

Features

- · Frequency modulated continuous wave (FMCW) radar technology
- Quick reaction time
- Effectively detects stationary moving and multiple objects such as vehicles or
- 1 activation input
- 1 trigger output
- Programmable: Detection area Blind zones - system ignores fixed objects Buzzer (70 to 90 dB(A) at 1m)
- Horizontal detection angle: 140°
- 5 stage adjustable audible and visual distance warning display
- Sensor resistant to water, moisture, dust. vibration, heat, cold, mud and glare

- Current: 0.8 Amns
- Power consumption: 8 Watts

Durability & Standards

- · Operating temperature -40 to +85°C /-40 to +185°F
- CE marked • UKCA marked
- FCC approved
- IC approved • E-Marked: UNECE R10 compliant

Note: Configuration software

brigade-electronics.com

SELECTABLE BACKSENSE® OBJECT DETECTION SYSTEMS

• 9-32Vdc

- detection ranges: (LxW) 3m x 2.5m / 9.8 x 8.21 6m x 4.5m / 19.7 x 14.8'
- · Rugged design for harsh environmental conditions
- 160 x 100 x 40mm 6.3 x 4 x 1.6 inches
- (WxHxD) 101 x 71 x 70mm 4 x 2.8 x 2.7 inches
- · IP69K sensor
- · 3 year warranty

Contents

- 1 x Non-configurable radar sensor • 1 x Audible and visual display with
- mounting bracket
- 1 x 9m/29.5' extension cable

Features

- Frequency modulated continuous wave (FMCW) radar technology
- Quick reaction time
- Effectively detects stationary, moving and multiple objects such as vehicles or
- property 1 activation input
- 1 trigger output
- 5 stage adjustable audible and visual distance warning display
- Adjustable buzzer volume: (70-90dBA)
- Sensor resistant to water, moisture, dust. vibration, heat, cold, mud and glare

Power

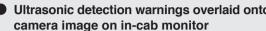
- Current: 0.8 Amps • Power consumption: 8 Watts
- **Durability & Standards** Mechanical shock: 100G
- Mechanical vibration: 8.3G
- · Operating temperature:
- FCC approved
- E-Marked: UNECE R10 compliant

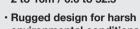












- 6.3 x 4 x 1.6 inches
- 4 x 2.8 x 2.7 inches

BS-7100 - 77GHz Selectable detection range

- · 3 x selectable preset 4.5m x 3.5m / 14.8 x 11.51
- Sensor size (WxHxD)
- · Display size with bracket

- -40 to +85°C /-40 to +185°F
- CE marked
- UKCA marked
- IC approved

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 60m/197' length and 16m/52' 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
- · Separate CAN message & ID for each object detected (up to 8 per sensor)

Model Part No:

NETWORK BACKSENSE® OBJECT DETECTION

BS-9100 - Backsense® 77GHz CAN object detection radar

6351

5272



· 12-24 Vdc

- Detection length:
- Detection width: 2m to 16m
- Sensor size (WxHxD)
- · IP69K sensor
- · 3 year warranty

BS-02DCX - 2m/6.6' extension cable

Contents

• 1 x BS-9100 Radar sensor

Features

- Frequency modulated continuous wave (FMCW) radar technology
- Quick reaction time
- Network up to 8 sensors
- Extremely rugged design for severe weather conditions and all terrains
- Communication 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

Power

- Current: 0.8 Amps
- Power consumption; 8 Watts

Durability & Standards

- Mechanical shock: 100G
- Operating temperature: -40 to +85°C
- CE marked
- UKCA marked
- E-Marked: UNECE R10 compliant

Note: For CAN message format, refer to user manual at brigade-electronics.com



BACKSENSE® RADAR OBJECT DETECTION ACCESSORIES

BS-05DCX	- 5m/16' extension cable	4550
BS-09DCX	- 9m/30' extension cable	4551
BS-25DCSX	- 25m/82' extension cable (Female end connector supplied loose)	4975
BS-00NYC	- Network Y Cable for 9000 series radar	5270
BS-02PIC	- Network power input cable for 9000 series radar	5271
BS-00NT	- 120 Ohms Network Terminator for 9000 series radar	5291
CT-470	- Constant tone external alarm - 102dB	1346
BS-WD-USB	- USB -programming software, port driver and operating guide	5637
BKT-023	- Adjustable Bracket for BS-9100, BS-8100 & BS-7100	7190

ZoneSafe Control Unit

The ZoneSafe Control Unit is installed in the cab so it is clearly visible to the driver. ZoneSafe is activated when a VibraTag Driver Tag is inserted into the Control Unit prior to operating the vehicle. Audible and visual alerts indicate various alarm states including a two-stage alert for the detection of one or more tags, system errors, and the non-insertion of a driver tag. A mute button can override a detection alert once a tag has been acknowledged.

ZoneSafe Antenna

A ZoneSafe Antenna creates a detection zone around a vehicle. Up to six antennas can be installed and linked in sequence to a control unit. The detection zone for each antenna can be programmed from the smallest 3m/10' up to the largest 10m/33'.

Zonesafe® RFID Tags

Zonesafe® RFID Detection

Not available 、in Canada

ZoneSafe RFID tags can be used to detect people, protect assets, and create exclusion zones. Each tag can be uniquely identified and linked to individual people. Driver tags have the same functionality as pedestrian tags and are also compatible with the control unit.

Model Part No:



ZS-1001-ECU - ZoneSafe® Control Unit 902.4MHz

- 12-24Vdc
- Size (WxHxD) 102 x 180 x 58mm 4 x 7 x 2.3 inches
- IP65
- WIFI configuration interface for remote monitoring and downloads
- · 2 Year Warranty

- Features
 Installed in the cab of vehicle
- Two stage audible and visual warnings to the machine operator when a tag or tags are detected by connected antennas
- Connect up to 6 antennas

(available separately)

- Internal memory to store up to 4,000 events
- System activation by inserting driver tag
- Alarm if driver tag is left in vehicle
- Central mute button to acknowledge the detection of one or more tags (configurable)
- Multi-color status panel3 selectable detection levels
- AMPS hole pattern mounting
- 1 x Trigger input
- 1 x Trigger output
- TX Frequency: 125kHzRX Frequency: 868.3MHz
- Tix i requeriey. 666.6Wii iz

Power

• Current: 0.5 Amps

Durability & StandardsOperating temperature:

-40 to +85°C / -40 to +185°F

• CE marked

OPTIONAL EXTRA

ZS-ECU-MP Mounting Plate for Control Unit

5900

59

Zonesafe® RFID Detection

Model

Brigade

Part No:

5996

Model Part No:

ZONESAFE® RFID TAG DETECTION SYSTEM

5991 ZS-1001-AP - ZoneSafe® Vehicle to Pedestrian Antenna, 902.4MHz



- · Detection radius range: 0 10m /0-33' (Configurable between 3 & 10m/10 & 33')
- · Size (WxHxD) 122 x 250 x 90mm 4.8 x 9.8 x 3.5 inches
- · 2 Year Warranty

Features

- · Creates a detection zone around a
- Detects tags through walls and obstructions and around blind corners Detection zone radius programmable
- manually or via WIFI • Connects to Control Unit on vehicle (antenna cable available separately)
- Daisy-chain wiring to connect multiple antennas to the same vehicle
- TX Frequency: 125kHz • RX Frequency: 868.3MHz

Power

• Current: 1 Amp

Durability & Standards

- Operating temperature: -40 to +85°C / -40 to +185°F

Note: Antenna cable required for



ZoneSaf

OPTIONAL EXTRA

ZS-C130 5899 Antenna Cable, 30m/98th

ZS-AP-MP **Mounting Plate for Pedestrian Antenna** 5898

ZS-1000-BKT Adjustable Bracket 6079



Zonesafe®

RFID Detection

Not available

in Canada

ZONESAFE® RFID TAG DETECTION SYSTEM

ZS-1001-SG - ZoneSafe® Smart Gateway, 902.4MHz

5994

• 24 Vdc

- (external 24V DC supplied)
- Size (WxHxD) 110 x 90x 55mm 4.3 x 3.5 x 2.2 inches
- 1 Year Warrantv

Features

- Fitted to walls or other permanent · 2 x relays which can be used to trigger
- alarms or open shutters, barriers etc. Detects approaching vehicles equipped
- with ZoneSafe systems • Adjustable detection range from 3 to 9m
- RX Frequency: 125kHz • TX Frequency: 868.3MHz

Power

 Current: 0.5 Amp **Durability & Standards**

• Operating temperature:

- -10 to +55C / 14 to +131°F
- CF marked

ZONESAFE® RFID TAG DETECTION SYSTEM

ZS-1001-TT - ZoneSafe® Tag Tester, 902.4MHz

5993

Size (WxHxD) 110 x 90 x 55mm 4.3 x 3.5 x 2.2 inches

(external 24V DC supplied)

• 24 Vdc

1 Year Warranty

Features

- Checks pedestrian and driver tag battery status (green for good and red for low) Includes 2 relays which can be used to
- trigger alarms, locks or shutters Adjustable Tag detection range from
- 0.1 to 4m / 0.3 to 13'
- TX Frequency: 125kHz
- RX Frequency: 868.3MHz

Power

• Current: 0.5 Amp

Durability & Standards

- · Operating temperature:
- -10 to +55C / 14 to +131°F
- CE marked

ZONESAFE® RFID TAG DETECTION SYSTEM

ZS-1001-PVT - ZoneSafe® Pedestrian VibraTag, rechargeable, 902.4MH ZS-1001-DVT - ZoneSafe® Driver VibraTag, rechargeable, 902.4MH

5995

· Size (WxHxD) 84 x 53 x12mm

· IP67

· IP67

1 Year Warranty

Pedestrian VibraTag

· 1 Year Warranty









Features

- Carried by workers and machine operators 3.3 x 2 x 0.5 inches Each tag can be uniquely identified and
 - linked to individual people • Driver tags have the same detection functionality as pedestrian tags and are
 - also compatible with the control unit • Driver tag is masked from detection when inserted into the control unit

· High-capacity rechargeable battery

- Tag Immediately vibrates upon entering a vehicle detection perimeter
- term protection · Can be worn on a lanyard, into pockets
- or armbands • RX Frequency: 125kHz • TX Frequency: 868.3MHz

2 hour inductive charging time using

wireless charger (available separately)

· Hermetically sealed to provide best long

Durability & Standards

- · Operating temperature: -10 to +55C / 14 to +131°F
- CE marked

OPTIONAL EXTRA

ZS-1000-TWC ZoneSafe® Tag Wireless Charger 5893

5999

5887

ZONESAFE® RFID TAG DETECTION SYSTEM

ZS-1001-AT - ZoneSafe® Asset Tag, 902.4MHz

Features · Size (HxDia) High-capacity (non-rechargeable) 63 x 48mm/2.5 x 1.9 inches replaceable power cell providing long operational life (included)

ZS-1000-DR - ZoneSafe® Desktop Reader

- · Protects vehicle from collisions with
 - property or hazards • Immediately warns the driver when tag is detetected within the vehicle's detection zone
 - · Robust and waterproof enclosure
- · Can be attached onto assets or mounted on top of a safety cone with neck opening diameter of 39 44mm/l1.5-1.7"
- RX Frequency: 125kHz
- TX Frequency: 868.3MHz

Durability & Standards • Operating temperature:

- -10 to +55C / 14 to +131°F
- CE marked

ZONESAFE® RFID TAG DETECTION SYSTEM

· Size (HxDia) 160 x 80 x 45mm 6.3 x 3.1 x 1.8 inches

- 5V USB connection
- 1 Year Warranty

 Checks VibraTag battery status (green for good and red for low)

- Can be powered from any computer via USB
- TX Frequency: 125kHz
- RX Frequency: 868.3MHz



Durability & Standards

• Operating temperature: -10 to +55C / 14 to +131°F



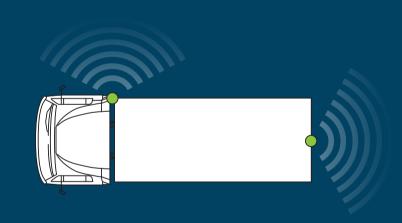
Warning Alarms

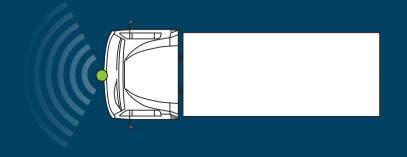
Vital safety devices are needed to warn workers and pedestrians that a vehicle is maneuvering.

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® white sound® Smart alarms auto-adjust to 5dB above ambient.

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

Single Tone Alarms meet the basic needs of reversing safety by warning pedestrians and workers that a vehicle is reversing.







0935

0934

0897

0896

Part No: Model

WHITE SOUND® SMART REVERSING ALARM

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

WHITE SOUND® SMART REVERSING ALARM

1400

1399

1398

0899 0898





Size (WxHxD) 172 x 79 x 95mm 6.7 x 3.1 x 3.7 inches

· Lifetime warranty

12-24Vdc

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

• 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

• UKCA marked

• SAE J994

noise abatement society

bbs tek

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

· 12-24Vdc · 36-80Vdc (HV)

Size (WxHxD) 127 x 76 x 65mm 5 x 3 x 2.5 inches

I ifetime warranty

Features

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

• 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

Power

Current: Max 1 Amp

Durability & standards

• Mechanical vibration: 10G

• Operating temperature: -40 to +85°C / -40 to +185°F

CF marked

• E-Marked: UNECE R10 compliant

UKCA marked

• SAE J994

• NAS/PIEK approved for night-time delivery



6.8 x 3.1 x 3.7 inches

· Lifetime warranty

• Multi-frequency broadband sound

Instantly locatable

• Eliminates noise nuisance

Hole centers: 153mm / 6"

Features

Instantly locatable

Durability & standards

• Mechanical vibration: 10G

 Operating temperature: -40 to +85°C / -40 to +185°F

CE marked

• E-Marked: UNECE R10 compliant UKCA marked

• SAE J994



ADR version

64

BBS-82HV - Electric forklift - 82 Decibels

BBS-92ADR - Petrol tanker - 92 Decibels

Power

Current: Max 0.3 Amps

Durability & standards

Mechanical vibration: 10G

-40 to +85°C / -40 to +185°F

CE marked

• E-Marked: UNECE R10 compliant

Part No: Model

WHITE SOUND® REVERSING 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

· IP68

· 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)

Lifetime warranty

12-24Vdc

Size (WxHxD)

· 2 year warranty

122 x 84 x 50mm

4.8 x 3.3 x 2 inches

IP68

Features

• Multi-frequency broadband sound

Instantly locatable

• Hole centers: 76mm / 3"

• Sound confined to danger area

· Mechanical vibration: 10G Eliminates noise nuisance • Operating temperature: • Sounder unit: Speaker

-40 to +85°C / -40 to +185°F CF marked

Power

• E-Marked: UNECE R10 compliant

• Current: Max 0.5 Amps

Durability & standards

• UKCA marked

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

SIDE TURN WARNING ALARM

QVS-001-75 - Quiet Vehicle Sounder

BBS-TI - Turn Indicator Warning Alarm - 90 Decibels

Power • Current: 0.5 Amps

Durability & standards

 CE marked • E-Marked: UNECE R10 compliant

 UKCA marked • Built-in timed and latched alarm cut out

functions • Sounder unit: Speaker

indicator flash

Features

Hole centers: 102mm / 4"

• Built-in turn indicator trigger

Multi-frequency broadband sound

Activates on side turn indication

Sound synchronises with vehicle





· 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

SALES@MSFOSTER.COM • 888.452.4053 • 219.879.9225 • WWW.MSFOSTER.COM

• Warns pedestrians and other VRU's that

a quiet vehicle is approaching · Combined multi-frequency bbs-tek® technology and tonal sounds

- Directional and locatable - The sound is only heard in the hazard zone.

• Pitch and volume increase with vehicle speed to mimic an internal combustion engine

20mph / 32 km/h

 Front sounder operational when ignition activated (silenced when parking brake

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 • UKCA marked

FCC approved

• 49 CFR Part 571 and 585 Federal Motor Vehicle Safety Standards compliant*

* QVS helps achieve compliance for the

a Tachograph, please contact us for alternative installation methods





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

12-24Vdc

IP68

· 12-24Vdc

· 36-80Vdc (HV)

Size (WxHxD)

127 x 76 x 65mm

5 x 3 x 2.5 inches

Lifetime warranty

· Size (WxHxD) 172 x 79 x 95mm

· Sound confined to danger area

• Sounder unit: Driver

Power

• Current: Max 1 Amps

• Multi-frequency broadband sound

• Hole centers: 98-108mm / 3.8-4.2"

· Sound confined to danger area

• Eliminates noise nuisance

Sounder unit: Speaker

WHITE SOUND® REVERSING ALARM

1322 2165

• Operating temperature:

UKCA marked

SAE J994

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noise abatement society















Features

- Multi-frequency sound

Front speaker system

· Operational below speeds of

applied) Uses Tachograph speed signal*

Sounder unit: Speake

 IC Marked • UNECE R138 compliant*



5385

Single Tone Alarms

Brigade

Part No: 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 0378 1198



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(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

CF marked

• E-Marked: UNECE R10 compliant UKCA marked

SPEAKING ALARM

BC-01 - Single reversing message - 90 Decibels BC-01(B) - Bespoke single message - 90 Decibels

0079 0083

0077

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

12-24Vdc

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

CF marked

• E-Marked: UNECE R10 compliant

UKCA marked

2 wire version

SPEAKING HANDBRAKE WARNING ALARM

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

0849 1715

· 12-24Vdc

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

· 2 year warranty

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

 F-Marked: UNECE B10 compliant UKCA marked





SPEAKING SIDE TURN WARNING ALARM

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

1334

12-24Vdc

IP68

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

· 2 year warranty

Real speech alarm

* Message "Ssh! Caution. Truck turning

· Sounder unit: Speaker

• Hole centers: 102mm / 4"

Current: 0.5 Amps

Durability & standards

CE marked

• E-Marked: UNECE R10 compliant

UKCA marked

Note: TS-001ECU Turn indicator triager is required

1362

Model

SMART TONAL REVERSING ALARM

SA-800 - Self adjusting heavy duty - 87-112 Decibels

1315

Part No:



12-24 Volts

· IP68

· Size (WxHxD) 156 x 85 x 108mm 6.1 x 3.3 x 4.3 inches

· 2 year warranty

 Alarm continually adjusts to 5-10dB above ambient

• Frequency (KHz): 1.9

• Sounder unit: Dome speaker • Hole centers: 111-114mm / 4.4-4.5"

Power

Current: Max 0.3 Amps

Durability & standards

Mechanical vibration: 10G

Operating temperature:

-40 to +85°C / -40 to +185°F

 CE marked • EMC approved: e

• SAE J994

SMART TONAL REVERSING ALARM

SA-400 - Self adjusting medium duty - 82-102 Decibels

1310

67



IP68

Size (WxHxD) 100 x 72 x 32mm 3.9 x 2.8 x 1.3 inches

· 2 year warranty

Features

 Alarm continually adjusts to 5-10dB above ambient

• Frequency (KHz): 1.4

 Sounder unit: Speaker • Hole centers: 76-82mm / 3-3.2"

Power

• Current: Max 0.2 Amps

Durability & standards Mechanical vibration: 10G

Operating temperature

-40 to +85°C / -40 to +185°F

 CE marked • EMC approved: e

• SAE J994

TONAL REVERSING ALARM

BA-890 - Heavy duty - 112 Decibels

1246







12-24 Volts · IP68

Size (WxHxD) 156 x 85 x 108mm 6.1 x 3.3 x 4.3 inches

· 2 year warranty

• Frequency (KHz): 1.9 • Sounder unit: Dome speaker

Hole centers: 111-114mm / 4.4-4.5"

• Current: Max 0.5 Amps

Durability & standards

• Mechanical vibration: 10G • Operating temperature:

-40 to +85°C / -40 to +185°F

Power

CE marked

• FMC approved: e • SAE J994

Part No: Model

TONAL REVERSING ALARM

BA-570 - Medium duty - 102 Decibels BA-560 - Medium duty - 97 Decibels

2885 2742

0027

12-24Vdc

IP68

Size (WxHxD) 105 x 62 x 32mm 4.1 x 2.6 x 1.3 inches

· 2 year warranty

· 12-24Vdc

Size (WxHxD)

48 x 60 x 48mm

· 2 year warranty

2 x 2.3 x 1.9 inches

Features

• 2 metre cable (BA-530TCA-2)

• Frequency (KHz): 1.6

• Sounder unit: Speaker Hole centers: 75-85mm / 3-3.3" **Durability & standards**

Power

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

• Current: Max 0.3 Amps

• CE marked

• EMC approved: e

• SAE J994

NIGHT SILENT TONAL REVERSING ALARM



BA-57 - Light duty - 90 Decibels

Features

· Blue wire connection mutes alarm when

vehicle lights are on • Frequency (KHz): 2.4

• Sounder unit: Piezo

Single bolt fitting

Power

• Current: Max 0.03 Amps

Durability & standards

Mechanical vibration: 10G

• Operating temperature: -20 to +60°C / -4 to +140°F

CE marked

TONAL REVERSING ALARM

BA-13 - Medium duty - 90 Decibels

0015





· 12-24Vdc

IP68

Size (WxHxD) 66 x 74 x 96mm 2.6 x 2.9 x 3.8 inches

· 2 year warranty

Features

• Frequency (KHz): 1.3

· Sounder unit: Speaker

• Single bolt fitting

Durability & standards

Mechanical vibration: 10G

• Current: Max 0.3 Amps

• Operating temperature:

-40 to +85°C / -40 to +185°F

• CE marked

Power

Model Part No:

VEHICLE INTERCOM



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

0875

0815

0663

4752

0334

0974

· 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

• UKCA marked

FCC Approved

• IC Approved

ALARM ANCILLARIES

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

· 2 year warranty

• 12-24Vdc

· 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

EMC approved



ALARM ANCILLARIES

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

Durability and Standards

· 12-24Vdc

· 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

 CE marked • EMC approved

ALARM ANCILLARIES



NS-2 - Nightshift reversing alarm cut-out switch

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

Durability and Standards

· 12-24Vdc

· IP68

· 2 year warranty

Features

• Double engage reverse to cut-out alarm No wiring necessary to cab

• CE marked • Resets when reverse gear disengaged

• EMC approved

Part	Model	Page	Part	Model	Page	Part	Model	Page	Part	Model	Page	Part	Model I	Page	Part	Model	Page
0015	BA-13	68	2156	BE-870FM	19	4763	AC-24-12(008)	27	5637	BS-WD-USB	58	6202	MDR-500-1-MCU-		7374	BE-H020	28
0027	BA-57	68	2165	BBS-92ADR	64	4766	VBV-650-000N	25	5690	MD-61(SW)	14		G2-SSD	42	7375	BE-H025	28
0077	BC-01	66	2538	VSK-30E	33	4851	LS-60-A	35	5698	MD-61(W)	14	6203	MDR-500-2-MCU-		7376	BE-H030	28
0079	BC-01(B)	66	2539	VSK-31E	33	4875	SD-32GB-IND	42	5719	DMC-1031	15		G2-SSD	42	7396	VBV-2230C AI-D04	10
0083	BC-02(B)	66	2540	VSK-50E	32	4876	SD-64GB-IND	42	5738	MD-61	14	6243	MDR-500-1-MCU-		7487	DC-204-AI(NA)	45
0334	NS-2	69	2541	VSK-50E-A	32	4903	AC-305	42	5760	AC-24-12(011)	28		G2-CMR	42	7489	VBV-Al801	28
0378	BC-01(NS)	66	2542	VSK-30E-T	32	4904	AC-306	26	5800	BN360-300	7	6252	MDR-508GW-1-G2-	40	7490	VBV-AI805	28
0663	TCO-47	69	2543	VSK-30E-T	33	4904	AC-306	42	5809	BN360-H320	8	0047	CMR	40	7491	VBV-Al820	28
0800	BE-L130	28	2543	VSK-31E-T	33	4905	AC-307	26	5810	BN360-H315	8	6317	BBS-TI	65	7500	RP-001	50
0801	BE-L120	28	2589	AC-019	27	4905	AC-307	42	5811	BN360-H310	8	6351	BS-9100	58	7508	VBV-AI810	28
0802	BE-L115	28	2590	AC-020	26	4925	AC-063	26	5812	BN360-H305	8	6380	BE-870HM	19	7509	VBV-Al815	28
0803	BE-L110	28	2705	BE-870LM	19	4926	AC-24-12(009)	26	5813	BN360-H3025	8	6410	BE-8101C	11	7524	VBV-360-1000	6
0804	BE-L105	28	2742	BA-560	68	4948	AC-064	27	5860	IP-EM4	17	6437	MDR-508-2-G2-SSD	40	7595	VBV-6172-000	25
0805	BE-X003	28	2797	BE-L1003	28	4949	AC-308	26	5860	IP-EM4	41	6441 6445	MDR-508GW-2-G2-SS VBV-XHFM003		7625	RP-010	50
0815	BC-VI	69	2841	VBV-711C	13	4975	BS-25DCSX	58	5861	IP-EM8	17	6560	DC-101-001	29 44	7627	VBV-360-CALMAT-S	
0849	BC-01(H/Brake)	66	2843	VBV-481C	15	5003	MD-50SM-30	14	5861	IP-EM8	41	6570	MDR-644-1-CMR		BEA32K		24
0875	BC-VI-2	69	2885	BA-570	68	5004	MD-50AM-15	14	5864	IP-EM-PC	17	6574	MDR-644GW-1-CMR	38 38	BEA32K		24
0896	BBS-82	65	3007	BE-L108	28	5005	MD-50AM-25	14	5864	IP-EM-PC	41	6589	MDR-644GW-2-SSD	38	BEA32K		00
0897	BBS-87	65	3008	BE-L112	28	5027	AC-066	26	5865	IP-EC-1	17	6615	MDR-644-1-MCU-CMI		DEAGOL	VBV-H770-000N	23
0898	BBS-102	64	3131	BE-870L-000N	22	5028	AC-067	26	5865	IP-EC-1	41	6617	MDR-644-1-MCU-SSE		BEA32K	004 VBV-H770-010N	23
0899	BBS-107	64	3183	AC-024	27	5042	BE-L101	28	5866	IP-EC-5	17	6618	MDR-644-2-MCU-SSE		BEA32K		23
0934	BBS-92	65	3335	AC-028	27	5049	AC-014(5M)	26	5866	IP-EC-5	41	6648	AC-H305	26	BLASZN	VBV-H770-910	23
0935	BBS-97	65	3348	BMM-019_ARM	21	5066	SK-15-05	32	5867	IP-L601	17	6648	AC-H305	26	BEA32K		20
0974	NS-3	69	3351	BE-970WM	18	5099	UDS-OSD20-ECU	54	5887	ZS-1000-DR	61	7020	AC-075	42	DE/ (OZIV	VBV-H770-301	23
1143	BE-X020	28	3427	SK-15-01	30	5234	AC-068	27	5893	ZS-1000-DR ZS-1000-TWC	61	7020	DC-102-RVC	43	BEA32K		
1144	SK-30E	30	3560	BE-970WFM	18	5257	SS-4100W	52	5898	ZS-AP-MP	60	7024	DC-102-RVC	43		BE-H870L-000N	22
1198	BC-01(NS-B)	66	3666	SC-1000-ECU	34	5261	CS-3100	54 55	5899	ZS-C130		7027	DC-102-IRC	43			
1242 1246	BE-810C BA-890	12	3716 3716	UDS-10BC UDS-10BC	52 55	5262 5270	ST-2100 BS-00NYC	55 58	5900	ZS-ECU-MP	60 59	7029	DC-102-IRC	43			
1310	SA-400	67 67	3717	UDS-10BC UDS-2.5BC	55 55	5270	BS-02PIC	58	5900	IP-L603	17	7030	DC-101-003	44			
1315	SA-400 SA-800	67	3717	UDS-2.5SC	55 55	5271	BS-02DCX	58	5902	IP-L605	17	7051	MDR-AC-ACC-01	42			
1313	BBS-82HV	64	3720	UDS-4.5SC	55	5272	BS-02DCX BS-00NT	58		IP-L615		7053	MDR-MCU-R-01	39			
1334	SS-BC-08	52	3744	BS-4000W	53	5311	MDR-508W-EXP-0	42	5904		17 27	7053	MDR-MCU-R-01	42			
1334	SS-BC-08	66	3746	UDS-15BC	55	5318	AC-069	27	5907 5916	AC-24-12(010) SS-4200W	27 51	7056	MDR-USB-A-01	42			
1346	CT-470	58	3747	FS-4000W	54	5323	VBV-243M	21		IP-1000C		7060	MDR-641-1-MCU-CMI	R 42			
1362	TS-001ECU	52	3871	VSK-305E	33	5344	SS-4100W-000	52	5935		16	7061	MDR-641-1-MCU-SSD				
1398	SA-BBS-97HV	64	3997	SK-15-04	31	5345	ST-2100-60-A	55	5936 5937	IP-1100C IP-1200C	17 16	7062	MDR-641-2-MCU-SSD				
1399	SA-BBS-97	64	4005	VSK-505E	32	5347	UDS-OSD21-ECU	54			16	7068	MDR-641-1-CMR	39			
1400	SA-BBS-107	64	4215	UDS-RELAY-24	51	5385	QVS-001-75	65	5982	IP-L610	17	7072	MDR-641GW-1-CMR	39			
1570	SK-50E	31	4216	UDS-RELAY-12	51	5405	BN360-CK-02	6	5983	IP-L620	17	7088	DW-2000-TX	34			
1571	CS-020	35	4219	SK-UDS-05	52	5426	BE-891C	11	5984	IP-L630	17	7089	DW-2000-RX	34			
1715	BC-01(4W)(H/Brake)	66	4245	AC-041	27	5467	VBV-7101C	13	5985	IP-1XXX-PC	17 50	7135	BS-8100	57			
1830	SK-31E	30	4246	AC-042	27	5471	VBV-7191C	13	5990	ZS-1001-ECU	59	7144	VBV-3101C	14			
1844	VCS-020	35	4266	AC-24-12(002)	27	5506	MDR-508GW-EXP-0	42	5991	ZS-1001-AP	60	7146	VBV-3121C	14			
1879	SK-50E-A	31	4267	AC-055(5M)	26	5511	VBV-H430	29	5993	ZS-1001-TT	60	7160	BKT-023	58			
1885	SK-30E-T	30	4279	AC-044	27	5512	VBV-H425	29	5994	ZS-1001-SG	60	7178	SS-H002	35			
1886	SK-31E-T	30	4280	AC-045	27	5513	VBV-H420	29	5995	ZS-1001-DVT	61	7204	VBV-770HFM	20			
1905	BE-801C	11	4401	AC-056	26	5514	VBV-H415	29	5996	ZS-1001-PVT	61	7248	BS-7100	57			
1907	BE-X025	28	4550	BS-05DCX	58	5515	VBV-H412	29	5999	ZS-1001-AT	61	7296	SE-770HR-300	7			
1983	AC-006	26	4551	BS-09DCX	58	5516	VBV-H410	29	6016	MDR-RP02	42	7297	SE-7014HRF-300	7			
1984	AC-007	26	4649	BN360-100C-BKT01		5517	VBV-H407	29	6018	MDR-04RPC	42	7321	VBV-2220C AI-D04	10			
2084	BE-801C(78)	11	4691	AC-062	26	5518	VBV-H406	29	6057	VBV-7104HFM	20	7366	BE-H0003	28			
2085	BE-801C(40)	11	4701	BE360-CD	8	5519	VBV-H405	29	6075	SS-4200W-000	51	7367	BE-H001	28			
2094	AC-014	26	4714	BN360-100C-BKT02		5520	VBV-H404	29	6079	ZS-1000-BKT	60	7368	BE-H003	28			
2099	BE-X005	28	4719	AC-24-12(006)	27	5521	VBV-H403	29	6123	VBV-770H-7001	22	7369	BE-H005	28			
2100	BE-X010	28	4743	BN360-100C-BKT03		5522	VBV-H4025	29	6124	VBV-770H-3001	22	7370	BE-H008	28			
2101	BE-X015	28	4752	TCO-47-01	52	5523	VBV-H4005	29	6125	VBV-770H-3101	22	7371	BE-H010	28			
2150	AC-016	27	4752	TCO-47-01	69	5611	VBV-770HM	21	6201	MDR-500-0.5-MCU-		7372	BE-H012	28			
2152	EDM-50	34	4762	AC-24-12(007)	27	5623	UDS-7.0SC	55		G2-SSD	42	7373	BE-H015	28			
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Model	Part	Page	Model	Part	Page	Model	Part	Page	Model	Part	Page	Model	Part	Page	Model	Part	Page
AC-006	1983	26	BC-VI	0815	69	BS-05DCX	4550	58	MDR-500-2-MCU-G2-S	SSD		TCO-47-01	4752	69	VCS-020	1844	35
AC-007	1984	26	BC-VI-2	0875	69	BS-09DCX	4551	58	6203	42		TS-001ECU	1362	52	VSK-305E	3871	33
AC-014	2094	26	BE-801C	1905	11	BS-25DCSX	4975	58	MDR-508-2-G2-SSD	6437	40	UDS-10BC	3716	52	VSK-30E	2538	33
AC-014(5M)	5049	26	BE-801C(40)	2085	11	BS-4000W	3744	53	MDR-508GW-1-G2-CM			UDS-10BC	3716	55	VSK-30E-T	2542	32
AC-016	2150	27	BE-801C(78)	2084	11	BS-7100	7248	57	MDR-508GW-2-G2-SSI	D 6441	40	UDS-15BC	3746	55	VSK-30E-T	2543	33
AC-019	2589	27	BE-8101C	6410	11	BS-8100	7135	57	MDR-508GW-EXP-0	5506	42	UDS-2.5BC	3717	55	VSK-31E	2539	33
AC-020	2590	26	BE-810C	1242	12	BS-9100	6351	58	MDR-508W-EXP-0	5311	42	UDS-2.5SC	3719	55	VSK-31E-T	2543	33
AC-024	3183	27	BE-870FM	2156	19	BS-WD-USB	5637	58	MDR-641-1-CMR	7068	39	UDS-4.5SC	3720	55	VSK-505E	4005	32
AC-028	3335	27	BE-870HM	6380	19	CS-020	1571	35	MDR-641-1-MCU-CMR		42	UDS-7.0SC	5623	55	VSK-50E	2540	32
AC-041	4245	27	BE-870L-000N	3131	22	CS-3100	5261	54	MDR-641-1-MCU-SSD		42	UDS-OSD20-ECU	5099	54	VSK-50E-A	2541	32
AC-042	4246	27	BE-870LM	2705	19	CT-470	1346	58	MDR-641-2-MCU-SSD		42	UDS-OSD21-ECU	5347	54	ZS-1000-BKT	6079	60
AC-044	4279	27	BE-891C	5426	11	DC-101-001	6560	44		7072	39	UDS-RELAY-12	4216	51	ZS-1000-DR	5887	61
AC-045	4280	27	BE-970WFM	3560	18	DC-101-003	7030	44	MDR-644-1-CMR	6570	38	UDS-RELAY-24	4215	51	ZS-1000-TWC	5893	61
AC-055(5M)	4267	26	BE-970WM	3351	18	DC-102-IRC	7029	43	MDR-644-1-MCU-CMR		42	VBV-2220C AI-D04	7321	10	ZS-1001-AP	5991	60
AC-056	4401	26	BE-H0003	7366	28	DC-102-IRC	7027	43	MDR-644-1-MCU-SSD		42	VBV-2230C AI-D04	7396	10	ZS-1001-AT	5999	61
AC-062	4691	26	BE-H001	7367	28	DC-102-RVC	7026	43	MDR-644-2-MCU-SSD		42	VBV-243M	5323	21	ZS-1001-DVT	5995	61
AC-063	4925	26	BE-H003	7368	28	DC-102-RVC	7024	43		6574	38	VBV-3101C	7144	14	ZS-1001-ECU	5990	59
AC-064	4948	27	BE-H005	7369	28	DC-204-AI(NA)	7487	45	MDR-644GW-2-SSD	6589	38	VBV-3121C	7146	14	ZS-1001-PVT	5996	61
AC-066	5027	26	BE-H008	7370	28	DMC-1031	5719	15	MDR-AC-ACC-01	7051	42	VBV-360-1000	7524	6	ZS-1001-SG	5994	60
AC-067	5028	26	BE-H010	7371	28	DW-2000-RX	7089	34	MDR-MCU-R-01	7053	39	VBV-360-CALMAT-STD	7627	6	ZS-1001-TT	5993	60
AC-068	5234	27	BE-H012	7372	28	DW-2000-TX	7088	34	MDR-MCU-R-01	7053	42	VBV-481C	2843	15	ZS-AP-MP	5898	60
AC-069	5318	27	BE-H015	7373	28	EDM-50	2152	34	MDR-RP02	6016	42	VBV-6172-000	7595	25	ZS-C130	5899	60
AC-075	7020	42	BE-H020	7374	28	FS-4000W	3747	54	MDR-USB-A-01	7056	42	VBV-650-000N	4766	25	ZS-ECU-MP	5900	59
AC-24-12(002)	4266	27	BE-H025	7375	28	IP-1000C	5935	16	NS-2	0334	69	VBV-7101C	5467	13	-	BEA32	2K001
AC-24-12(006)	4719	27	BE-H030	7376	28	IP-1100C	5936	17	NS-3	0974	69	VBV-7104HFM	6057	20			24
AC-24-12(007)	4762	27	BE-H870L-000N	BEA32	K007	IP-1100C		16	QVS-001-75	5385	65	VBV-711C	2841	13	-	BEA32	
AC-24-12(008)	4763	27	22				5937		RP-001	7500	50	VBV-7191C	5471	13			24
AC-24-12(009)	4926	26	BE-L1003	2797	28	IP-1XXX-PC	5985	17	RP-010	7625	50	VBV-770H-3001	6124	22			
AC-24-12(010)	5907	27	BE-L101	5042	28	IP-EC-1	5865	17	SA-400	1310	67	VBV-770H-3101	6125	22			
AC-24-12(011)	5760	28	BE-L105	0804	28	IP-EC-1	5865	41	SA-800	1315	67	VBV-770H-7001	6123	22			
AC-305	4903	42	BE-L108	3007	28	IP-EC-5	5866	17	SA-BBS-107	1400	64	VBV-770HFM	7204	20			
AC-306	4904	26	BE-L110	0803	28	IP-EC-5	5866	41	SA-BBS-97	1399	64	VBV-770HM	5611	21			
AC-306	4904	42	BE-L112	3008	28	IP-EM-PC	5864	17	SA-BBS-97HV	1398	64	VBV-AI801	7489	28			
AC-307	4905	26	BE-L115	0802	28	IP-EM-PC	5864	41	SC-1000-ECU	3666	34	VBV-AI805	7490	28			
AC-307	4905	42	BE-L120	0801	28	IP-EM4	5860	17	SD-32GB-IND	4875	42	VBV-AI810	7508	28			
AC-308	4949	26	BE-L130	0800	28	IP-EM4	5860	41	SD-64GB-IND	4876	42	VBV-AI815	7509	28			
AC-H305	6648	26	BE-X003	0805	28	IP-EM8	5861	17	SE-7014HRF-300	7297	7	VBV-AI820	7491	28			
AC-H305	6648	26	BE-X005	2099	28	IP-EM8	5861	41	SE-770HR-300	7296	7	VBV-H4005	5523	29			
BA-13	0015	68	BE-X010	2100	28	IP-L601	5867	17	SK-15-01	3427	30	VBV-H4025	5522	29			
BA-560	2742	68	BE-X015	2101	28	IP-L603	5902	17	SK-15-04	3997	31	VBV-H403	5521	29			
BA-57	0027	68	BE-X020	1143	28	IP-L605	5903	17	SK-15-05	5066	32	VBV-H404	5520	29			
BA-570	2885	68	BE-X025	1907	28	IP-L610	5982	17	SK-30E	1144	30	VBV-H405	5519	29			
BA-890	1246	67	BE360-CD	4701	8	IP-L615	5904	17	SK-30E-T	1885	30	VBV-H406	5518	29			
BBS-102	0898	64	BKT-023	7160	58	IP-L620	5983	17	SK-31E	1830	30	VBV-H407	5517	29			
BBS-107	0899	64	BMM-019_ARM	3348	21	IP-L630	5984	17	SK-31E-T	1886	30	VBV-H410	5516	29			
BBS-82	0896	65	BN360-100C-BKT01	4649	8	LS-60-A	4851	35	SK-50E	1570	31	VBV-H412	5515	29			
BBS-82HV	1322	64	BN360-100C-BKT02	4714	8	MD-50AM-15	5004	14	SK-50E-A	1879	31	VBV-H415	5514	29			
BBS-87	0897	65	BN360-100C-BKT03	4743	8	MD-50AM-25	5005	14	SK-UDS-05	4219	52	VBV-H420	5513	29			
BBS-92	0934	65	BN360-300	5800	7	MD-50SM-30	5003	14	SS-4100W	5257	52	VBV-H425	5512	29			
BBS-92ADR	2165	64	BN360-CK-02	5405	6	MD-61	5738	14	SS-4100W-000	5344	52	VBV-H430	5511	29			
BBS-97	0935	65	BN360-H3025	5813	8	MD-61(SW)	5690	14	SS-4200W	5916	51	VBV-H770-000N	BEA32				
BBS-TI	6317	65	BN360-H305	5812	8	MD-61(W)	5698	14	SS-4200W-000	6075	51			23			
BC-01	0077	66	BN360-H310	5811	8	MDR-04RPC	6018	42	SS-BC-08	1334	52	VBV-H770-010N	BEA32	K004			
BC-01(4W)(H/Brake)	1715	66	BN360-H315	5810	8	MDR-500-0.5-MCU-			SS-BC-08	1334	66			23			
BC-01(B)	0079	66	BN360-H320	5809	8	G2-SSD	6201	42	SS-H002	7178	35	VBV-H770-301	BEA32	K006			
BC-01(H/Brake)	0849	66	BS-00NT	5291	58	MDR-500-1-MCU-G2-			ST-2100	5262	55			23			
BC-01(NS-B)	1198	66	BS-00NYC	5270	58	CMR	6243	42	ST-2100-60-A	5345	55	VBV-H770-910	BEA32	K005			
BC-01(NS)	0378	66	BS-02DCX	5272	58	MDR-500-1-MCU-G2-			TCO-47	0663	69			23			
BC-02(B)	0083	66	BS-02PIC	5271	58	SSD	6202	42	TCO-47-01	4752	52	VBV-XHFM003	6445	29			
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Warranties



Lifetime New-For-Old Warranty (covers product for the life of vehicle)

bbs-tek® White sound® reversing alarms Self-adjusting backalarms



5 Year New-For-Old Warranty

Backeye®360 camera system ELITE range camera monitor systems



3 Year New-For-Old Warranty

SELECT range camera monitor systems

MDR 644 & 508 series mobile digital recorders, IP cameras and accessories

Ultrasonic object detection systems

Backsense® radar object detection systems & on-screen display

2 Year New-For-Old Warranty Al Cameras

2 YEARS Camera monitor system ancillaries

MDR 641 series mobile digital recorders

Ultrasonic object detection on-screen display

Ultrasonic object detection ancillaries and extras

Alarm ancillaries

Backchat® Speaking alarms

Tonal Alarms

Vehicle intercom

QVS Quiet vehicle sounder

Zonesafe® Antenna & Control unit



1 Year New-For-Old Warranty*

ESSENTIAL camera monitor systems ZoneSafe® RFID Tags and ancillaries

Dashcams

All products aside those specifically listed

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.

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1040 Highway 212 Michigan City, IN 46360

OFFICE 219.879.9225 TOLL FREE 888.452.4053 FAX 219.879.9313

> sales@msfoster.com www.msfoster.com

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