

Backeye®360° Camera Monitor Systems



Actual Backeye@360 images

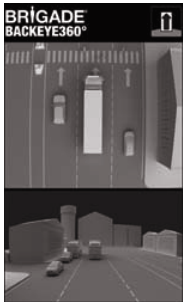
All vehicles have blind spots – areas around the vehicle that are obscured to the driver by bodywork or machinery. When manoeuvring, these blind spots present a significant danger to anything or anyone in the vehicle’s path and inhibit the driver’s ability to operate the vehicle safely.

Mirrors and single-view cameras can help but, even with this extra assistance, the driver may still not see everything in the vehicle’s path.

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

- Eliminates blind spots, improves safety
- Comprehensive view of the surrounding area in a single image
- Reduces collisions with people and objects

Backeye@360 BN360-200 monitor view options



360 & mirrored rear view



Full 360 view



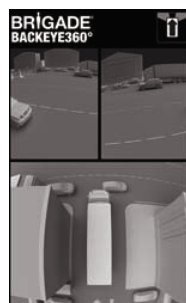
Full left/right view



Full mirrored rear view



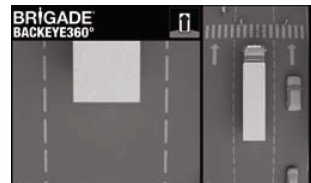
Front view & 360



Front cross-traffic & 360



Mirrored rear view & 360



Rear focus & 360



Left/right view & 360



Full 360 left/right focus



Front view & 360



Front cross-traffic view



Left/right view & 360



Left/right view & left/right focus 360

Backeye® 360

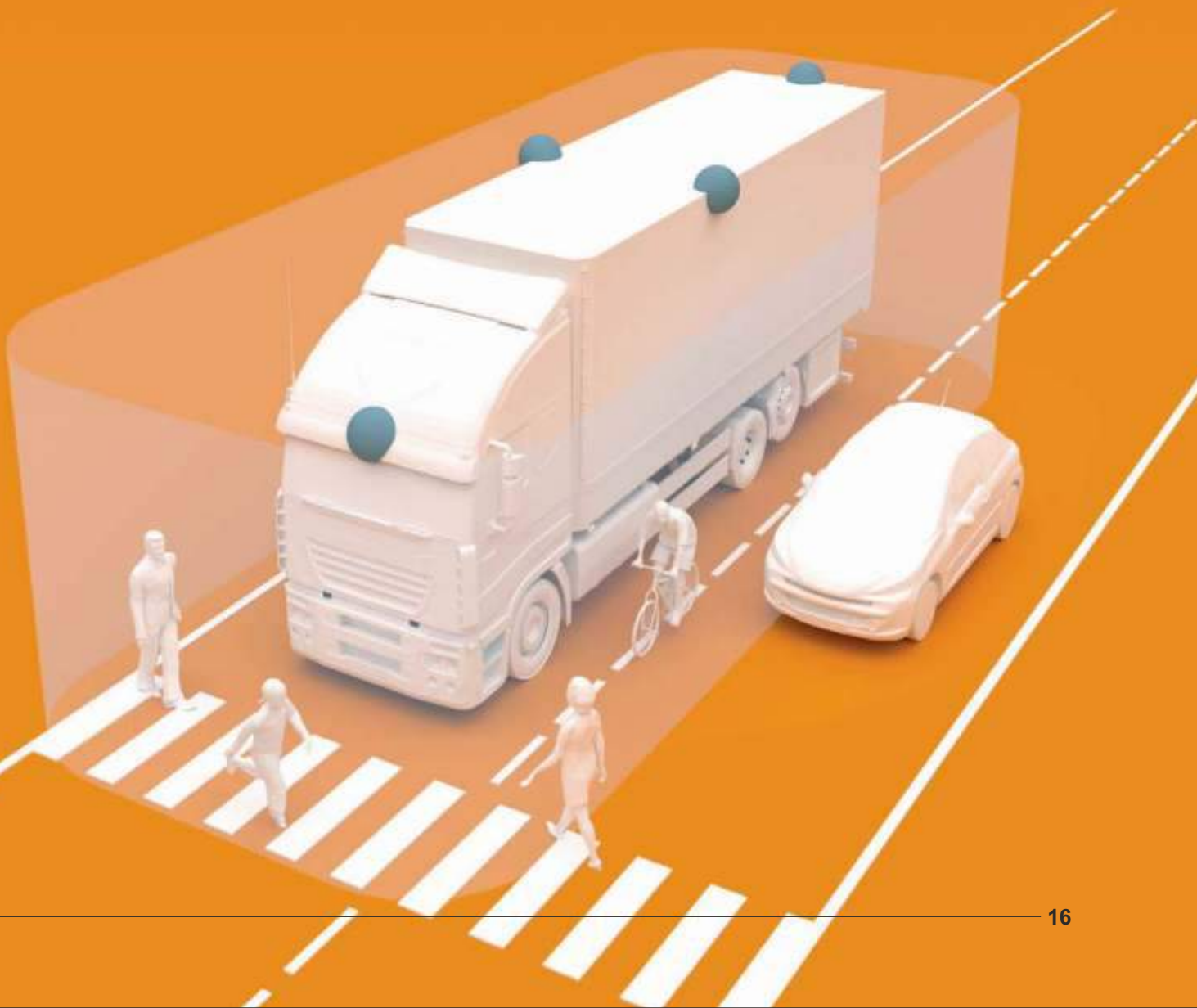
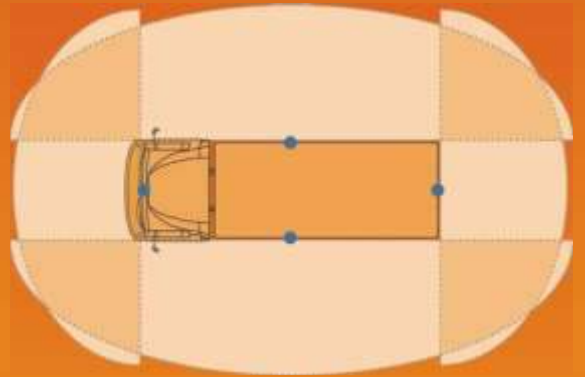
How it works

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

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

The four live images are simultaneously sent to an electronic control unit (ECU) where they are instantly processed, combined, blended and stitched. The distortion from the wide-angle camera lens is also corrected before delivering a clear, single, smooth, real-time image onto the driver's monitor.

Backeye®360 is compatible with Brigade's monitors and MDR recording systems.





360° CAMERA SYSTEM

BN360-200 - Backeye®360 system

5200



- IP69K cameras
- 12-24Vdc
- Size (WxHxD) ECU
174 x 101 x 30mm
- Size (WxHxD) Camera
36 x 61 x 46mm
- 5 year warranty

MDR COMPATIBLE **R46** APPROVED*

Contents

- 1 x ECU
- 4 x BN360-100C cameras
- 1 x Video output cable to connect to SELECT range monitor.
- 1 x set-up/view-select button
- IR receiver & remote control
- 1 x ECU power harness
- 1 x ECU interface harness

Features

- 360° image
- 19 different view modes (max 10 views per chosen configuration group) including:
 - Landscape or portrait configurations
 - Front & rear crossing-traffic
 - Left & right lane changing assist
 - Customisable vehicle position
- 4 pre-defined configuration groups
- Configure & customise set up via monitor and IR remote control
- Left, right, reverse & speed signal triggers
- Configurable on-screen parking markers
- 3 x video outputs
- Ultra-wide viewing angle cameras (HxV) 185° x142°
- 1/3.6" CMOS sensor
- TV system: NTSC or PAL via switch on ECU (cameras NTSC only)

Power

- Power consumption: 8 Watts
- Current: 0.65 Amps

Durability & Standards

- Mechanical vibration: 8.5G
- Mechanical shock: 50G
- Operating temperature: -30 to +75°C
- IP30 ECU
- CE marked
- E-Marked: UNECE R10 compliant
- FCC Approved
- IC Approved
- ISO 20653:2006
- ISO 13766:2006
- EN 13309:2010
- *Camera monitor system R46 approved

NOTES:

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

BN360 CABLES AND ADAPTERS



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

MOUNTING BRACKETS

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

REQUIRED FOR ARTICULATED VEHICLES

BN360-Enclosure	IP66 Enclosure kit to enable ECU to be installed on outside of vehicle	4723
SK-15-05	3-camera Backeye®360 cable kit for articulated vehicles	5066

BN360 360° CAMERA MONITOR SYSTEMS

Complete kits including monitor, Backeye@360 camera system, cables and adapters



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

5378



- 1 x VBV-7104FM - 10.4" monitor
- 1 x BN360-200 360 system
- 1 x BN360-L110 - 10m camera cable
- 2 x BN360-L115 - 15m camera cables
- 1 x BN360-L120 - 20m camera cable

See individual products for detailed specifications and warranties



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

5379



- 1 x VBV-770M 7" monitor
- 1 x BN360-200 360 system
- 1 x BN360-L110 - 10m camera cable
- 2 x BN360-L115 - 15m camera cables
- 1 x BN360-L120 - 20m camera cable

See individual products for detailed specifications and warranties