

360° Select Camera System



The 360° Select by Brigade is an easily configured system offering the safety of a surround view to regular shaped, box body vehicles. The virtual 'bird's-eye' image is presented alongside the view from one of the individual cameras, determined by the manoeuvre being executed. The positioning of the camera image joins can be set for the front and rear pairs independently, and three triggers automatically present tailored views to the driver.

Providing the driver with a real-time, 360° 'bird's-eye' view of the vehicle within a single image.

How does it work?

Providing a choice of 360° technologies, both of which work with four ultra wide-angle cameras that each covers 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, smooth, real-time image onto the driver's monitor.

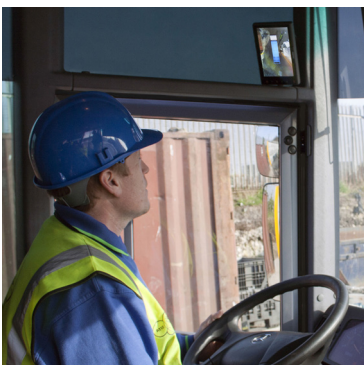
A flexible system

The Backeye®360 systems allow for personalised calibration and each installation is unique. The blending and stitching of the camera views can be configured to meet the requirements of the user and the settings saved to upload to identical vehicles in a fleet. Backeye®360 will work on virtually any rigid vehicle or machine, large or small. The distance of the viewing area can be set to suit the application. For example, a refuse vehicle may only need to see a distance of 3m, whereas a large dumper at a quarry may require a radius of 40m. The flexibility of the Brigade systems means there are solutions suitable for both on- and off-road applications.

Safety and savings

Benefits of the system extend beyond reducing collisions with people and objects. The comprehensive view of the surroundings aids the driver when manoeuvring at low speed and can minimise tyre damage, as drivers of larger vehicles can see and avoid objects lying on the ground. Backeye®360 Systems are compatible with Brigade MDR digital recorders, providing 360° footage that can be used in incidents of 'crash for cash', vandalism or false claims. Video evidence can help companies make major cost savings by refuting bogus claims, whilst importantly supporting their drivers.

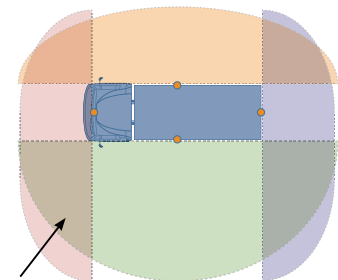
4 cameras, 1 image, 0 blind spots



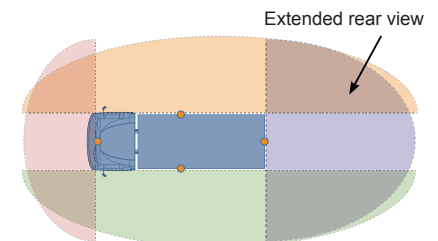
Creating the view

When setting the system up, any overlap of two camera views can be blended. The width of the blend can be set from zero (hard-edged join) to the entire overlap. The blended line can also be placed anywhere within the overlap to minimise the impact on critical viewing areas for the driver. Backeye®360 Select allows the front corner pair to be set up independently of the rear corner blends, while the Elite system offers ultimate flexibility with the facility to configure each corner individually.

Examples of programmable image regions

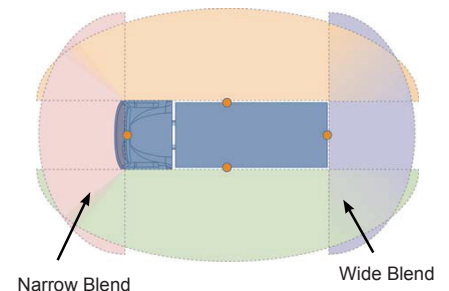


Enlarged off-set view



Extended rear view

Examples of customisable blend widths



Narrow Blend

Wide Blend

