

We've Got You Covered
Quality. Validation. Support.



Brigade

Quality and Reliability Engineered from the Start

At Brigade Electronics, quality is built into every stage of development. It is not inspected at the end of production — it is engineered into the product from concept through to release.

Our structured development process uses defined stage gates to ensure technical performance, regulatory compliance and reliability targets are achieved before market introduction.



Each product progresses through:

- Concept validation and feasibility analysis
- Detailed hardware and software engineering
- Prototype verification and risk assessment
- Formal validation and compliance testing
- Controlled production release

This disciplined framework ensures consistency, repeatability and confidence across our entire safety portfolio.

1 Concept

2 Engineering

3 Testing

4 Release

Structured Development. Controlled Manufacturing. Proven Performance.

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Brigade maintains oversight of the entire product lifecycle. From initial specification through to supplier approval and ongoing performance monitoring, quality governance remains constant.

We work exclusively with manufacturing partners who meet strict process and performance standards. Controlled change management, production audits and continuous product improvement ensure reliability long after launch.

This approach enables Brigade to achieve OEM-level standards and supply dependable vehicle safety systems to fleets and manufacturers worldwide.



Customer
Requirements
& Value
Definition



Technical
Planning
& Supplier
Alignment



Product
Development,
Testing &
Certification



Product
Launch &
Lifecycle
Management



Built to Withstand Real-World Conditions

Commercial vehicles operate in demanding environments defined by vibration, shock, extreme temperatures and electrical instability. Brigade products are validated in line with ISO 16750 — the recognised environmental testing standard for automotive electrical and electronic equipment.

Mechanical durability testing includes:

- Vibration simulation across operational frequency ranges
- Mechanical shock resistance
- Product handling and drop validation



Thermal and climatic testing subjects products to:

- High and low temperature soak
- Powered thermal cycling
- Thermal shock conditions
- Humidity and temperature exposure

These procedures compress years of field exposure into controlled laboratory conditions, ensuring long-term durability before release.

Designed for Electrical Stability

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Vehicle electrical systems are inherently unstable.

Brigade systems are validated to withstand:

- Extended DC voltage ranges (high, low and ramp conditions)
- Load dump simulation
- Short and open circuit scenarios
- Reverse polarity events
- Power interruption and reset behaviour
- Electrical transient conduction



Environmental resilience testing further confirms durability through:

- ✓ Water immersion and high-pressure wash testing
- ✓ Salt spray corrosion resistance
- ✓ Chemical exposure testing
- ✓ Gravel impact simulation
- ✓ Dust ingress validation

This level of validation ensures Brigade systems maintain operational stability in construction, waste, logistics and municipal applications where failure is not an option.

Certified for Integration in Modern Vehicles

Modern vehicles require electronic systems to operate without interference. Brigade validates electromagnetic compatibility through:

- Radiated emissions and immunity testing
- Conducted emissions and immunity testing
- Electrostatic discharge resilience
- Transient emission assessment

Products are developed to meet international regulatory requirements including CE, FCC, UNECE / E-Mark and broader EMC standards, allowing global deployment with full compliance confidence.



Backeye® 360 AI Camera System



AI Camera with HFR

Warranty Confidence Built on Testing Rigor

Our warranty structure reflects the strength of our engineering and validation processes. Depending on product category, Brigade provides:

1 1-Year

Warranty on essential systems

2 2-Year

Coverage on AI cameras and alarm solutions

3 3-Year

Protection on advanced detection and recording systems

5 5-Year

Warranty on premium camera systems

Lifetime

Guarantees on selected reversing alarm technologies

Our structured replacement warranty scheme ensures customer investment is protected long-term.

Support That Matches Our Engineering

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Brigade's commitment extends far beyond product supply. We understand that uptime is critical for fleet operators and vehicle manufacturers.

Our support infrastructure includes:

- A dedicated customer service team with clear escalation pathways.
- Rapid response handling and structured resolution processes.
- Technical helpline staffed by experienced vehicle integration specialists.
- Diagnostic, configuration and installation guidance.

Support is reinforced by our nationwide Brigade Service Partner network.

These carefully selected partners deliver:

- ✓ Professional installation services
- ✓ Local product availability
- ✓ Ongoing field service and maintenance support

From specification through to long-term operation, customers benefit from a complete ecosystem of engineering, service and technical expertise.

When fleets choose Brigade, they choose reliability, accountability and partnership.



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