

Cameras for Quarry Vehicles — Checklist

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Implementation Checklist

- ☐ Dust and water ingress: Quarry operations generate continuous airborne dust that penetrates any housing rated below IP69K. IP66 and IP67 cameras used on road vehicles fail within weeks in a working quarry environment.
- ☐ Vibration: Rock surfaces, haul road ripple, and crusher proximity generate vibration profiles that shear camera connectors and fracture sensor housings not designed for this environment.
- ☐ Impact debris: Stone fragments from loading and tipping operations impact any surface within the operating zone. Camera lenses and housings must be specified to withstand this. Some installations require polycarbonate lens guards as standard.
- ☐ Temperature range: Open-site ambient temperatures from below freezing to above 50°C in direct sun on dark metal surfaces. Camera housings must accommodate this range without lens fogging or sensor drift.