

ROAD VISION PRO

Road and Roadside Defect Detection

Analyses road-corridor imagery captured by vehicle-mounted cameras to identify and classify visible road, roadside and signage defects, including potholes, cracking, edge damage, faded linemarking, damaged barriers and signs, vegetation, debris and other configured maintenance issues.

FEATURE INFORMATION

Feature functionality	Automate and analyse
Model source	Retina Visions proprietary
Primary technique	Computer vision - object detection, classification and segmentation
Primary outputs	Defect type, image evidence, location, confidence and supported measurements

TRUST AND DATA PRACTICES

User-directed feature	Yes - the customer controls deployment, coverage and enabled defect classes
Personal data	Faces and number plates are blurred automatically
Data sources	Customer-captured imagery, camera metadata and GNSS/location data
Encryption at rest	Yes
Encryption in transit	Yes
Retention	Managed in accordance with the customer agreement and configured retention settings
Other safeguards	Access controls, data minimisation, quality assurance review and contractual controls

These outputs support customer decision-making. Customers remain responsible for inspection, maintenance, safety and compliance decisions.

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PATH VISION

Footpath Defect Detection

Analyses customer-captured footpath imagery to identify and classify visible footpath and shared-path defects, including cracking, displacement, edge damage, damaged tactiles, potholes, temporary repairs, vegetation, ponding water, debris and other configured maintenance issues.

FEATURE INFORMATION

Feature functionality	Automate and analyse
Model source	Retina Visions proprietary
Primary technique	Computer vision - object detection, classification and segmentation
Primary outputs	Defect type, image evidence, location, confidence and supported measurements

TRUST AND DATA PRACTICES

User-directed feature	Yes - the customer controls capture coverage and enabled defect classes
Personal data	Faces and number plates are blurred automatically
Data sources	Customer-captured imagery, camera metadata and GNSS/location data
Encryption at rest	Yes
Encryption in transit	Yes
Retention	Managed in accordance with the customer agreement and configured retention settings
Other safeguards	Access controls, data minimisation, quality assurance review and contractual controls

ROAD VISION PRO

Stereo Defect Measurement

Uses calibrated stereo imagery and computer-vision processing to calculate the dimensions of supported visible defects. Depending on the defect type and image quality, outputs may include length, width, depth, area and location information linked to the defect image.

FEATURE INFORMATION

Feature functionality	Analyse and augment
Model source	Retina Visions proprietary and algorithmic
Primary technique	Stereo vision, depth estimation and geometric measurement
Primary outputs	Estimated length, width, depth and/or area for supported defect types

TRUST AND DATA PRACTICES

User-directed feature	Yes - measurements are produced for supported classes in customer capture programs
Personal data	No
Data sources	Stereo imagery, and captured metadata
Encryption at rest	Yes
Encryption in transit	Yes
Retention	Managed in accordance with the customer agreement and configured retention settings
Other safeguards	Calibration controls, validation testing, access controls and quality assurance review

RETINA VISIONS ANALYTICS

Defect Severity Scoring and Prioritisation

Assigns a configurable severity score to supported defect records using available visual evidence, defect class, measurements and defined scoring criteria. Scores help customers sort, filter and prioritise large inspection datasets for review and maintenance planning.

FEATURE INFORMATION

Feature functionality	Analyse and augment
Model source	Retina Visions proprietary and configurable rules
Primary technique	Computer vision outputs combined with defect-specific scoring logic
Primary outputs	Severity score, priority ordering and filterable defect records

TRUST AND DATA PRACTICES

User-directed feature	Yes - scoring criteria and use of outputs are determined with the customer
Personal data	No
Data sources	Detected defect attributes, image evidence, measurements and configured criteria
Encryption at rest	Yes
Encryption in transit	Yes
Retention	Severity records follow the retention settings for the associated defect data
Other safeguards	Defect-specific criteria, versioned configuration, QA review and customer review controls