SF-VA-NP-01 Automatic Number Plate Recognition Software

Core Capabilities

• **Real-Time Plate Detection**: Identifies license plates on moving or stationary vehicles, including those at high speeds.

• **High Accuracy**: Achieves recognition rates between 95%–98% under diverse conditions.

- **Fast Processing**: Delivers recognition results in as little as 50 milliseconds on compatible hardware.
- **Vehicle Attribute Detection**: Identifies vehicle make, model, colour, and type.
- **Flexible Deployment**: Operates on-premises or via cloud, compatible with Windows, Linux, Jetson, Raspberry Pi, and more.

AI & Software Features

- **Deep Learning Integration**: Utilizes AI models to enhance recognition accuracy, even with blurry or angled images.
- **Advanced OCR Engine**: Employs sophisticated Optical Character Recognition for precise character identification.
- **Region-Specific Adaptability**: Tailors recognition algorithms to accommodate local license plate formats and regulations.
- **Data Management**: Stores and manages captured data efficiently, supporting event archiving and export in standard formats.

Integration & Compatibility

- **Hardware Agnostic**: Compatible with existing IP cameras and supports integration with various camera models.
- **API Access**: Provides RESTful APIs for seamless integration with third-party systems and applications.
- **User-Friendly Interface**: Offers intuitive dashboards for monitoring, configuration, and reporting.

Performance Metrics

- **Recognition Speed**: Processes images in approximately 50–200 milliseconds, depending on deployment.
- **Simultaneous Camera Support**: Handles multiple camera feeds concurrently, scaling with system capabilities.
- **Data Storage**: Capable of storing extensive event logs and image data for analysis and auditing.

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