Emmetra

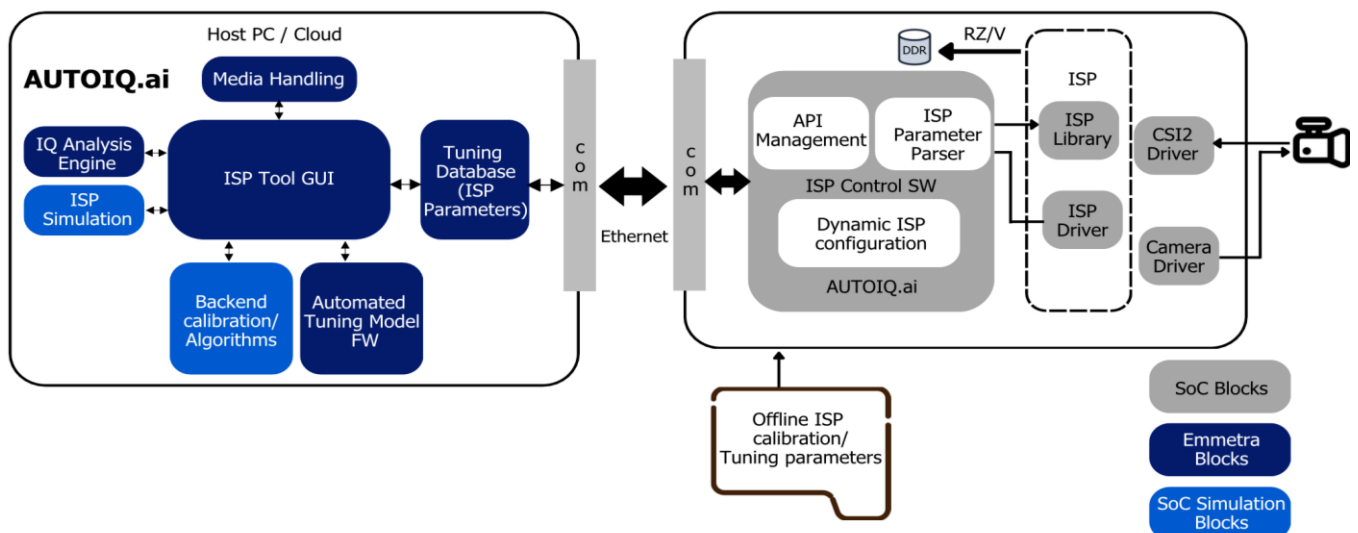## Renesas Ready Ecosystem Partner Solution
Emmetra AUTOIQ.ai

Solution Summary

AUTOIQ.ai is an advanced Agentic AI tool designed to automate camera image quality (IQ) tuning for both Human Vision (HV) and Machine Vision (MV) applications. By reducing tuning time from months to just days, it streamlines development and allows OEMs and ODMs greater flexibility in selecting the optimal combination of image sensors and lenses. Engineered for mass-market adoption, AUTOIQ.ai accelerates the deployment of AI-driven vision solutions while keeping costs low. It currently supports the RZ/V2L MPU evaluation kit, with expansion planned for other RZ/V MPU Series devices.

Features/Benefits

- Automatically defines IQ metrics and achieves target parameters for various use case scenarios
- Eliminates retraining of models and optimizes model size & performance for various Machine Vision use-cases
- Agnostic to imaging sensors and lenses combinations
- Cloud interface for ease of use

Diagrams/Graphics

Target Markets and Applications

- Robotics & industrial
- Wearables
- Medical applications
- Smart cities

- Drone, security and surveillance
- Smart home and retail
- AR glasses and VR headsets
- Various IoT applications

https://emmetra.com/#Partners

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- **Simplification:** Tool is designed for ease of use by engineers to achieve and enhance the performance of camera applications

- **Enhanced Productivity:** Eliminates toggling between tuning ISP parameters and loading onto hardware. AUTOIQ.ai combines both and enhances productivity for engineers.

- **Instantaneous Feedback**: IQ metrics are calculated instantaneously for realtime feedback. Metrics are simplified in a score form (0-100) for easy of interpretation. It saves additional licensing costs of purchasing IQ metric tools.

- **Gamified UI**: Gamified user interface facilitates navigation of tuning steps for non-camera experts.

- **Fine-Tuning for Human Vision:** iPhone inspired fine-tuning for customers who like to tune camera to match with their organization's "color philosophy".

About Emmetra

Emmetra is a deep-tech AI company with a focus on automating the full-stack of Imaging and Vision applications. Founded by an expert team with rich global experience in developing camera products across the breadth of industry markets. Born with a first principles thinking to simplify the product development, Emmetra intends to eliminate the skill barriers and enable camera OEMs & ODMs to unleash creativity and focus on solving their customer problems.

Vision: Empower camera product companies to achieve perfect vision by unlocking the potential of cameras using Emmetra's AI based development tools

Mission: To disrupt the lengthy and costly development process of camera software and hardware combination stacks with an AI-driven solutions.