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Make better video anytime, anywhere !

GDFLAB

The Most Advanced AI Upscaling Service Provider

GDFLAB

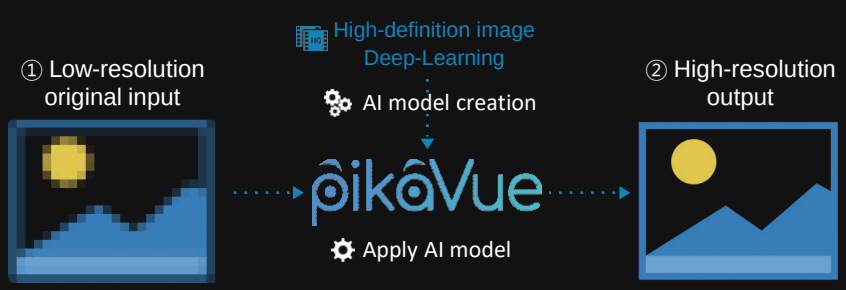
About Us

GDFLab is a company that develops AI 8K UHD video remastering service and upscaling SW module for mobile edge devices using AI Super Resolution technology. In particular, we have been striving to develop AI video upscaling technology that transmits low-quality video over the Internet and converts it into high-definition video in real time on mobile edge devices. Currently, he is working on AI 4K remastering service with TVING, an OTT service provider in Korea, and is discussing the development of a real-time AI upscaler for mobile edge devices with a global video service company in the US.

Technology Introduction

- AI Upscale S/W module, **pikaVue**

PikaVue, an Ai upscaling engine developed by GDF Lab, uses an AI model generated by deep learning to restore the resolution of low-quality images up to 4 times, converting HD video into high-quality UHD video. Currently, the general AI model is released in the form of a website (pikavue.com), and in the case of B2B companies, after re-learning an industrial dataset, a high-efficiency AI model is developed and served.



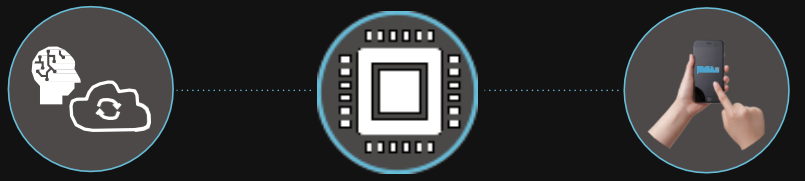
AI video upscaling result

- Low-resolution original sample
- High-resolution output


- Low-resolution original sample
- High-resolution output


Product Family

GDFLab's AI upscaling S/W module, pikaVue can be supplied in various forms as follows.



PC/Server/Cloud | Mobile AI chip | Mobile edge device

PC/Server/Cloud

It can be quickly installed on the PC of the existing equipment and the server being used. If required, it can be installed and delivered to any kind of cloud environment.

Mobile AI chip

By embedding GDFLab's AI upscale S/W module in the mobile AI chip , it can be combined into IoT devices and sensors.

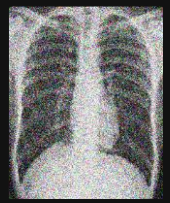
Mobile edge device

Real-time AI video upscaling technology on mobile edge devices enables video streaming even in poor network environments, which can also be used in global media service and aerospace industries.

Performance

As of May 2022, GDFLab has delivered 5K UHD remastering service to global PR productions and completed PoC of AI 4K remastering service to Korea OTT service provider, TVING. In 2020, X-ray quality improvement software, product background removal, and automatic synthesis AI engine were supplied to Korean companies. We have 15 domestic patents, 2 US patents, and 6 PCT patents for AI upscaling technology and related services and systems.

- X-ray image quality improvement software




Original Image | After applying GDFLab technology

- Product background removal and automatic synthesis AI



Original Image | Background Removal | Synthesis

※ Image adjusted for print