AI Software For Imaging

ALLIS is a machine-learning algorithm that instantaneously removes noise from image sensors.

NexOptic leverages advances in edge-computing and deep-learning to offer a truly state-of-the-art imaging software solution with its Advanced Low Light Imaging Solution (ALLIS).

ALLIS recovers image and video content captured in extreme low light conditions. This enables imaging systems with faster shutter speeds, smaller apertures, or improved night modes.

Any system that depends on clear imaging in the toughest conditions will benefit from ALLIS.

www.nexoptic.com
ALLIS Information

Target Markets
- Mobile
- Automotive
- Security
- IoT
- Medical Imaging

Features
- Algorithm learns unique sensor profile
- Train once offline
- Online edge inference
- Remove image noise
- Improve downstream processing

Compute Overview
- Suite of architectures 10K - 2.5M param
- Widely supported operations
- ~1.2 GFLOPs / MP
- Run on any hardware (CPU, GPU, NPU, FPGA, etc)

Key Metrics
- 10dB or greater improved PSNR
- Improve downstream AI by 430%
- Reduce filesize to 55% of original

Further Information
www.nexoptic.com