INDUSTRIAL AI APPLIANCE FOR EDGE MACHINE VISION



MSX-AI-5000

Ready-to-use hardware with built-in MSX-AIRIS license

Non-intrusive quality control

Customizable "Skills"

Deep learning and vision processing embedded

Up to 6 cameras

Web app and Android app

MQTT and OPC UA interfaces



and too specific competing solutions, the MSX-AI-5000 by ADDI-DATA is a versatile product that allows to increase speed and accuracy of error prone tasks such as visual inspection, thus preventing non-detection of defects while ensuring process transparency. This system allows to perform different applications on the same hardware base by installing various "Skills" (see catalog). These "Skills" are developed to best fit specific use cases

(intel) REALSENSE

constraints, and are easily reconfigurable if further requirements arise. The userfriendly interface enables an uncomplex administration and setting of the system, thus ensuring maximum efficiency and minimum efforts.

Feel free to reach us!

MSX-AIRIS on the edge

system:

vision

- Multi-camera and camera agnostic
- Data acquisition and management features

The MSX-AI-5000 is an industrial AI

appliance for edge machine vision.

Through this product, we offer a

solution for industrial quality control

and maintenance engineers seeking

to automate quality control tasks for

manufactured parts, by providing them

with our user-friendly complete machine

industrial cameras, and Al-assisted

embedded processing. Unlike complex

• ONNX Deep Learning models deployment (segmentation,

hardware module,

- classification, object detection ...)
- Classic computer vision post-processing: OCR, tracking, object recognition, color filtering, thresholding ... • 3D machine vision with points clouds processing
- Integrable in MLOps pipelines
- Embedded user interfaces (Web app and Android app)
- OPC UA and MQTT ready
- Customizable "Skills"
- Authenticated and encrypted data communication: TLS protocol

Embedded operator-friendly user interface

- No-code "Skills" management and system administration
- Easy-to-use camera setup interface

Hardware

- Based on Nvidia Jetson Xavier NX (other on request)
- 1x Gb Ethernet port for LAN connectivity
- 4x USB 3.2 ports for UVC cameras
- 2x PoE ports for GigE cameras
- 1x HDMI output for dashboard
- Wi-Fi connectivity
- Cascade mounting with other ADDI-DATA products for complete integration
- Other interfaces on request*: 4G, Ethercat...

Application fields

- Quality control
- Predictive and corrective maintenance
- Smart city and many others...



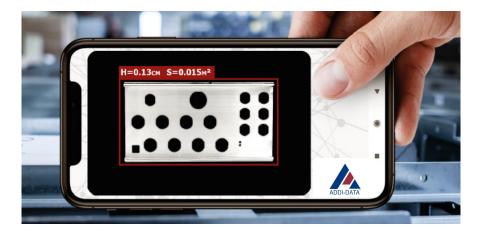
Use cases

- Defects detection
- Assembly check
 Surface inspection
- 3D volumetric measurement and many others...

Service on request

Deep learning embedded neural network training and dataset creation for customer-specific industrial needs. Contact us to request an offer!

3D VOLUMETRIC MEASUREMENT



No calibration **Millimetric precision Multi-object** Low light compatible Non-intrusive measurement High rate measurement

ADVANCED QUALITY CONTROL



Feature detection Feature classification Surface inspection Component placement check Real-time edge computing Multi-object Multi-camera

