



No-Code Industrial  
Artificial Intelligence  
Solutions

**QUALITY CONTROL  
SOLUTION  
FOR INDUSTRIAL  
APPLICATIONS**

**Inspector**  
Computer Vision Platform

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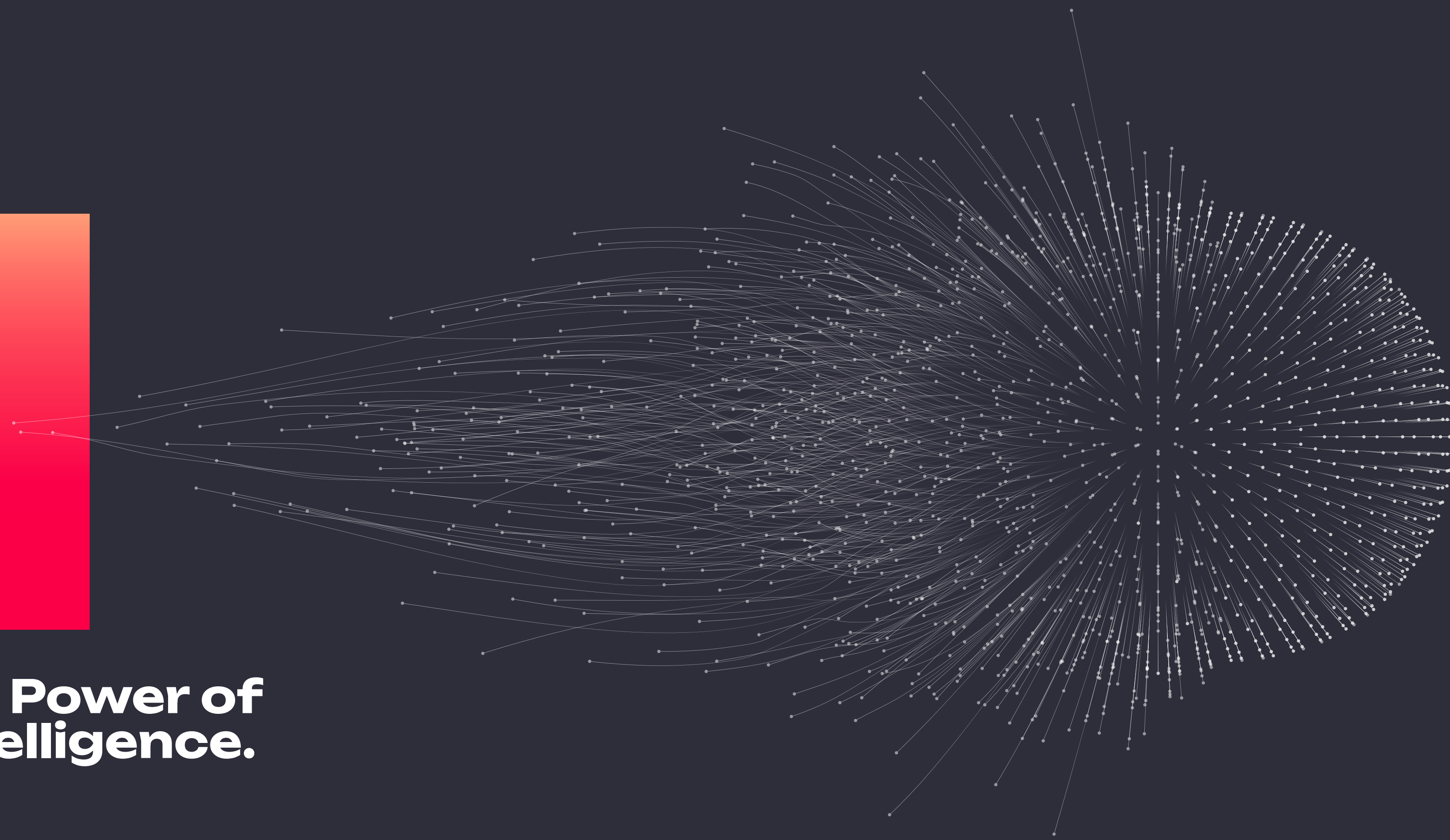
**NO-CODE**

[dataguess.com](https://dataguess.com)  
[info@dataguess.com](mailto:info@dataguess.com)



**AI**

**Harness the Power of  
Artificial Intelligence.**

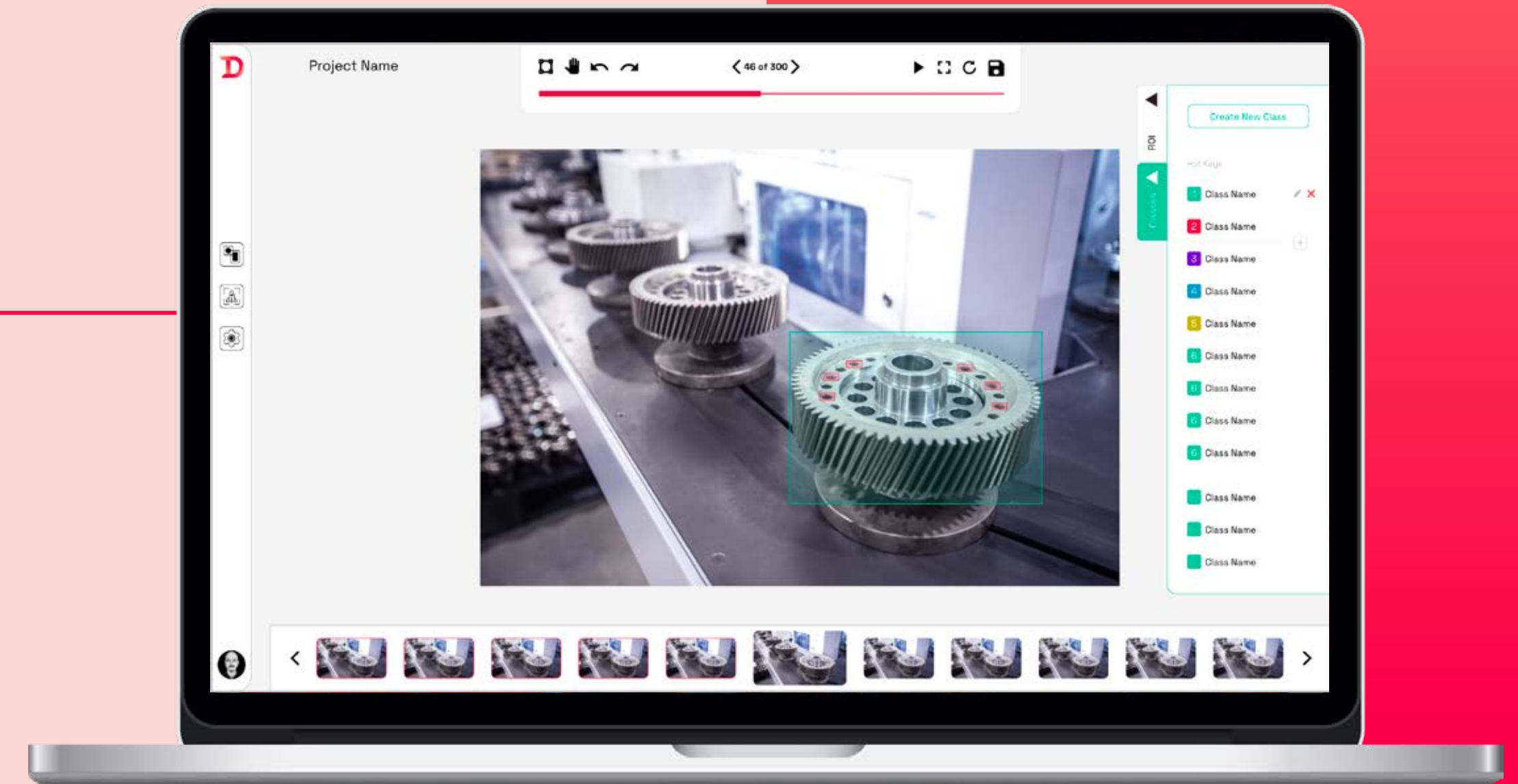




# QUALITY CONTROL WITH COMPUTER VISION

Inspector is a computer vision solution for autonomizing your quality control processes in manufacturing. It easily performs operations such as defect detection, defect classification and absence detection.

Inspector is equipped with advanced deep learning algorithms and algorithms that automatically perform the data flow process.





# FEATURES & DETAILS

## AN ARTIFICIAL INSPECTOR

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Quickly and easily develop Computer Vision projects on this platform without writing code. Create as many datasets as you want and train and test dozens of different AI models.

Take images from cameras with a single click or upload existing images to the system to train AI models.

Quickly label the pictures with labeling tools and create a dataset. Deploy the trained models you have developed on any Edge device or in the cloud.

**If the Human Eye Sees, it sees too.  
Even More and Faster.**

# INSPECTOR'S CAPABILITIES

## QUALITY CONTROL

OBJECT DETECTION & CLASSIFICATION

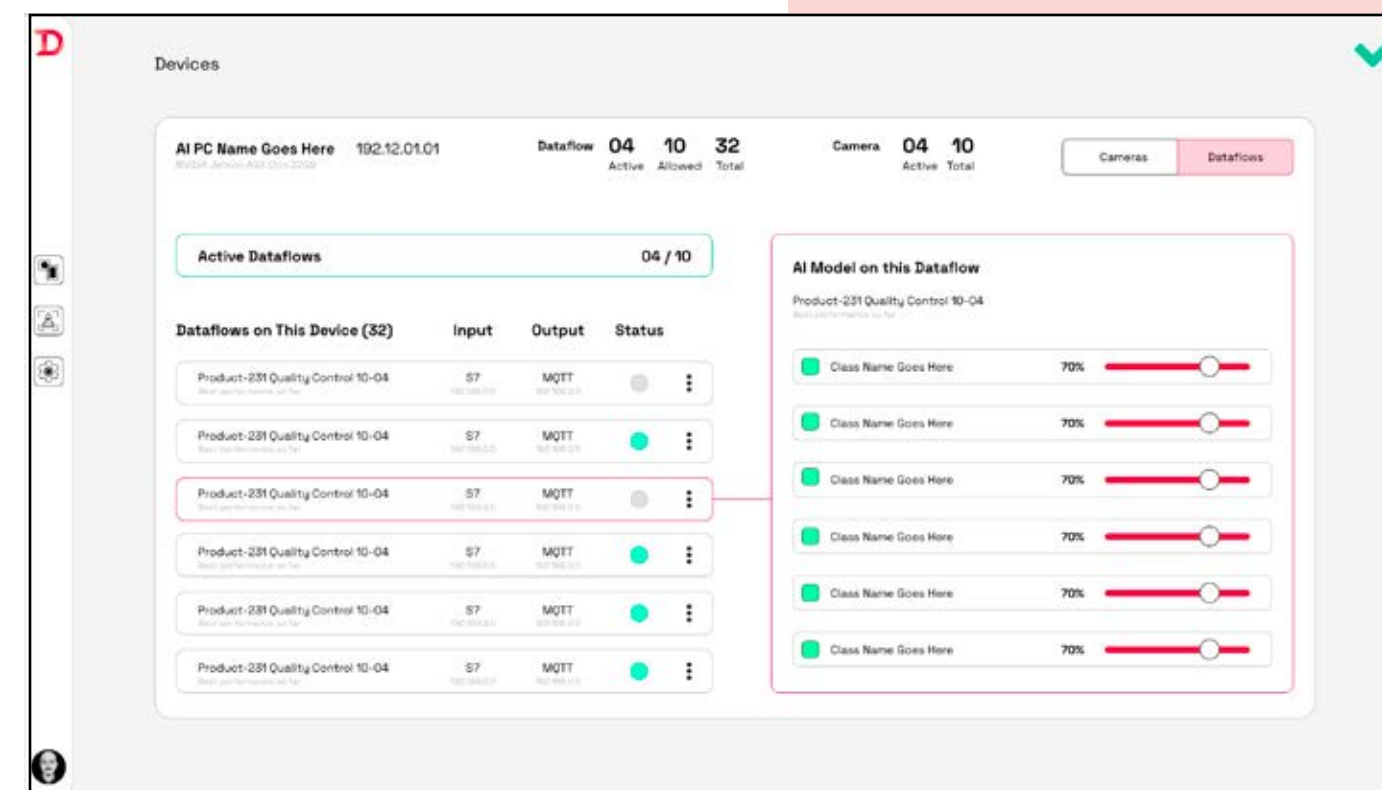
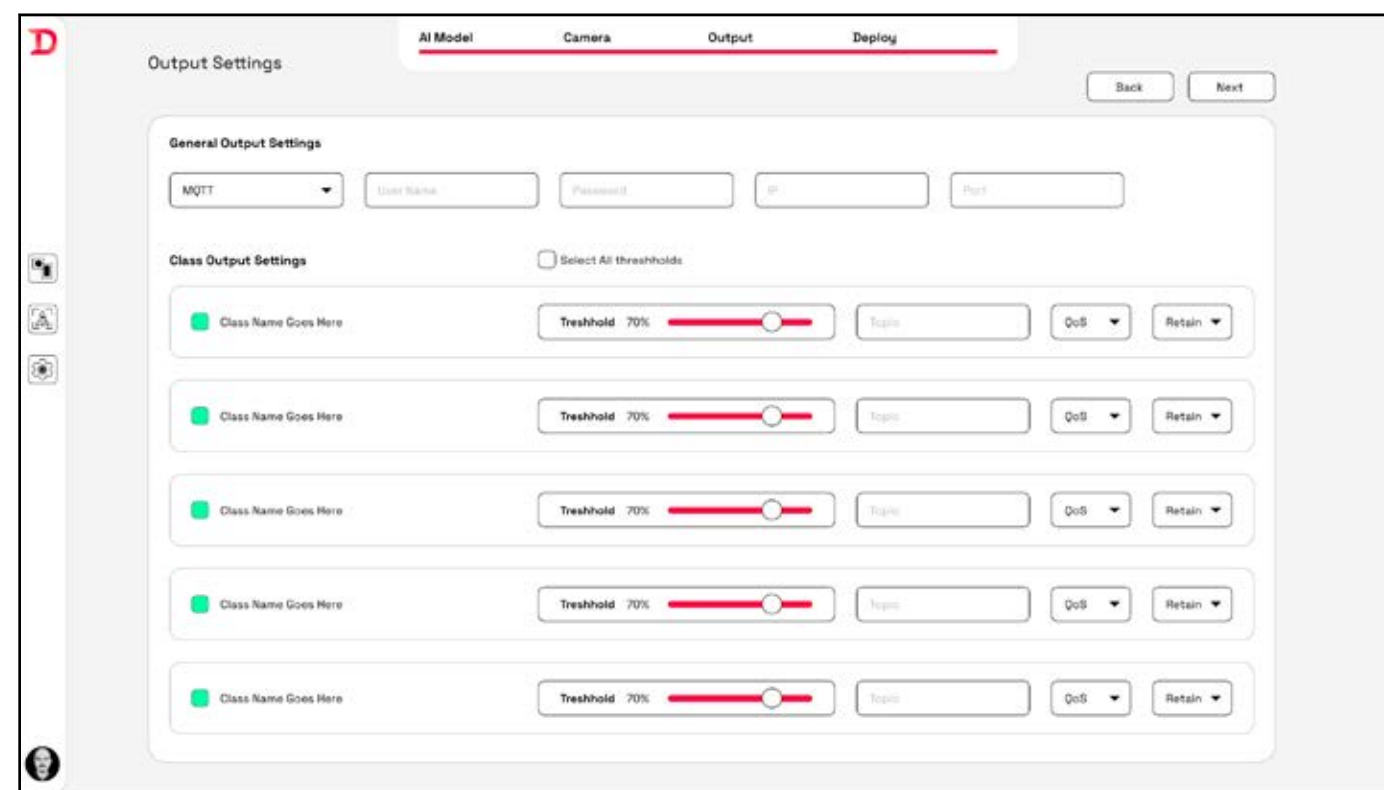
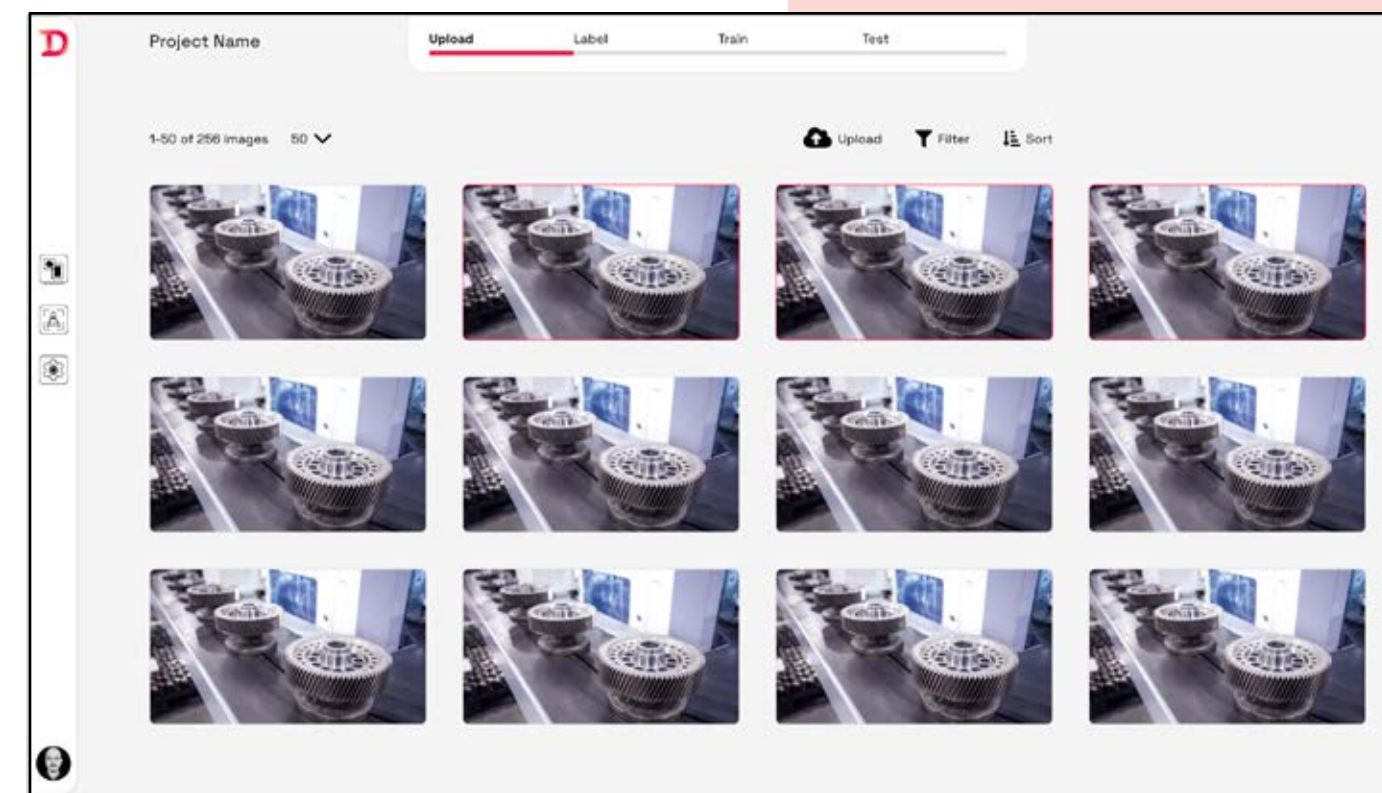
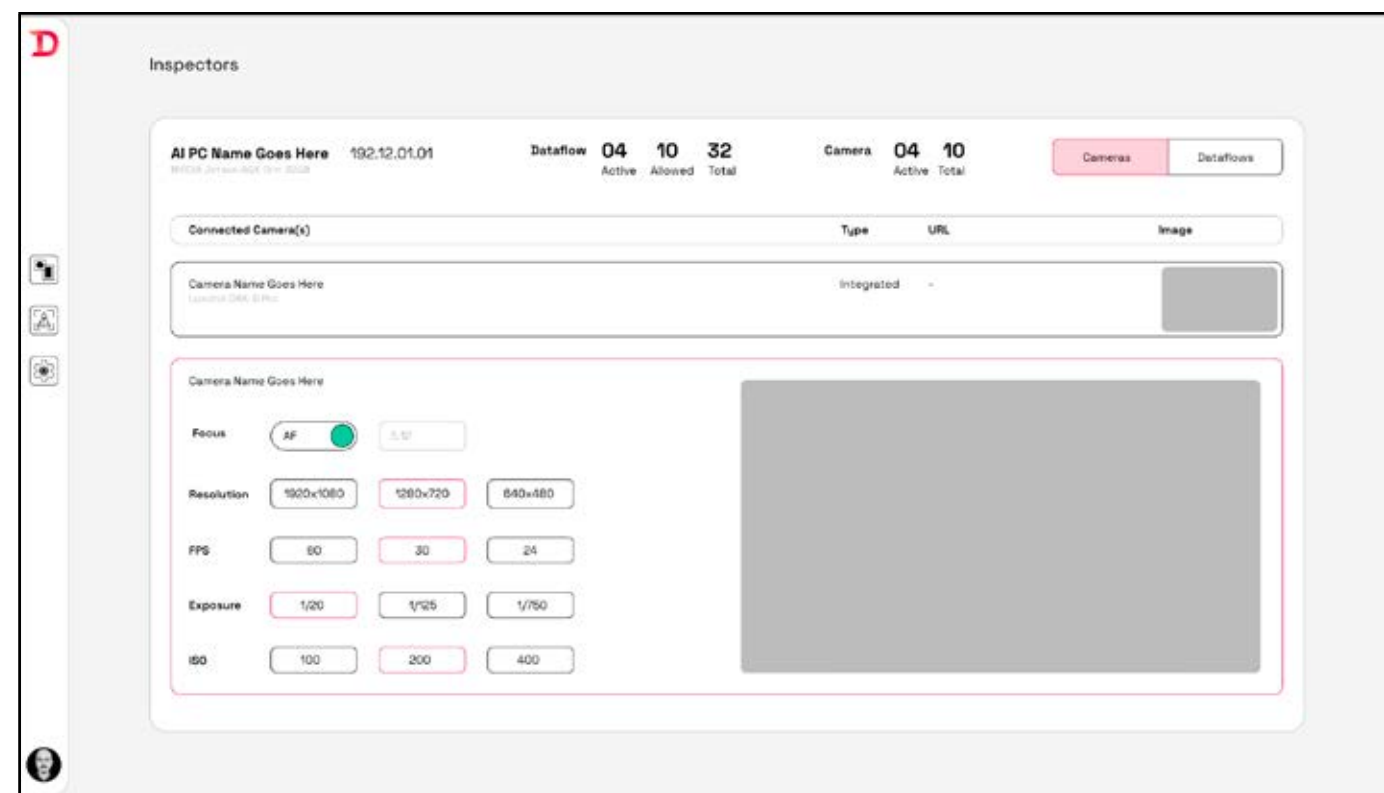
DEFECT DETECTION & CLASSIFICATION

OBJECT TRACKING & COUNTING

# USER INTERFACE

EVERYTHING YOU NEED

It Contains All the Tools  
You Need to Complete  
A Computer Vision Project.



## TOOLS

Dashboard

Device Management

Image & Video Retrieval

Image Labeling

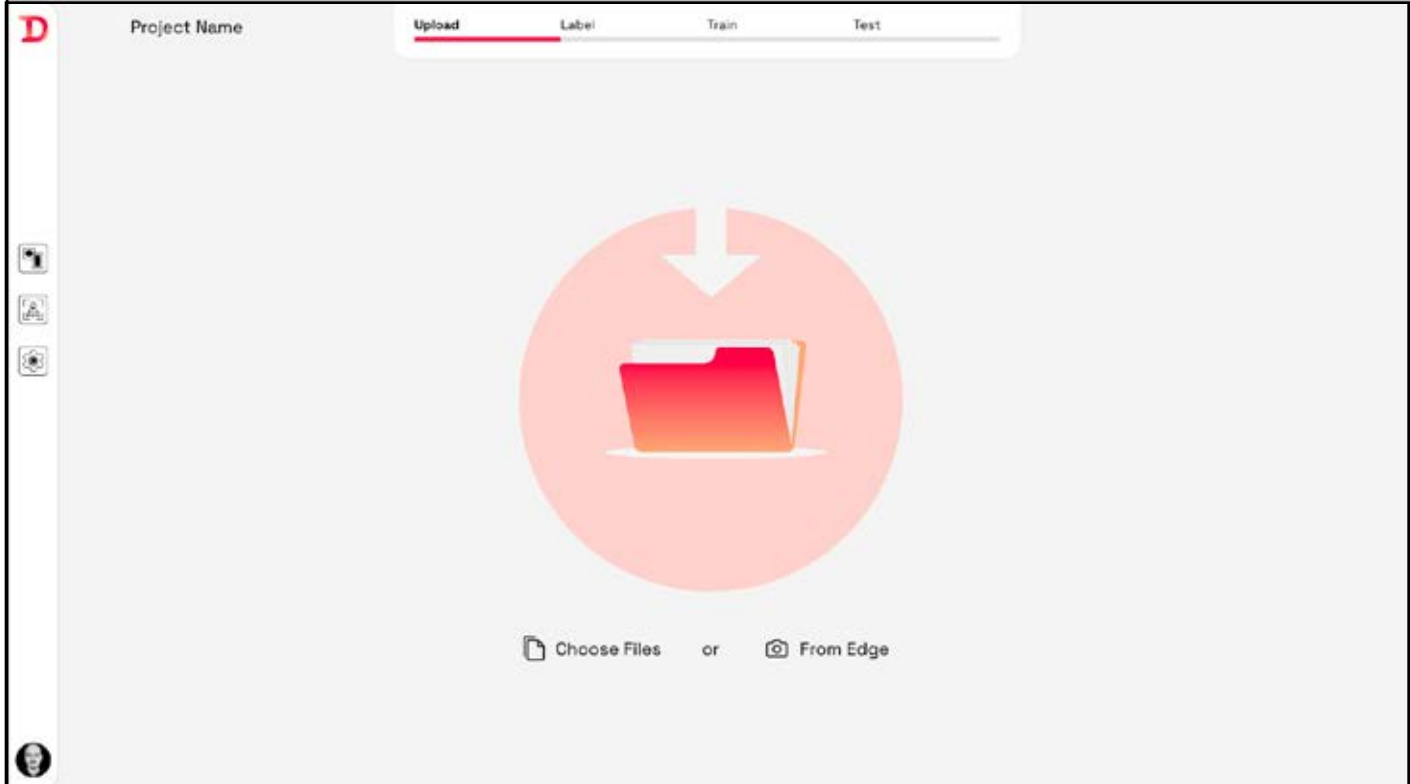
AI Model Training & Testing

AI Model Deployment

Input - Output Settings

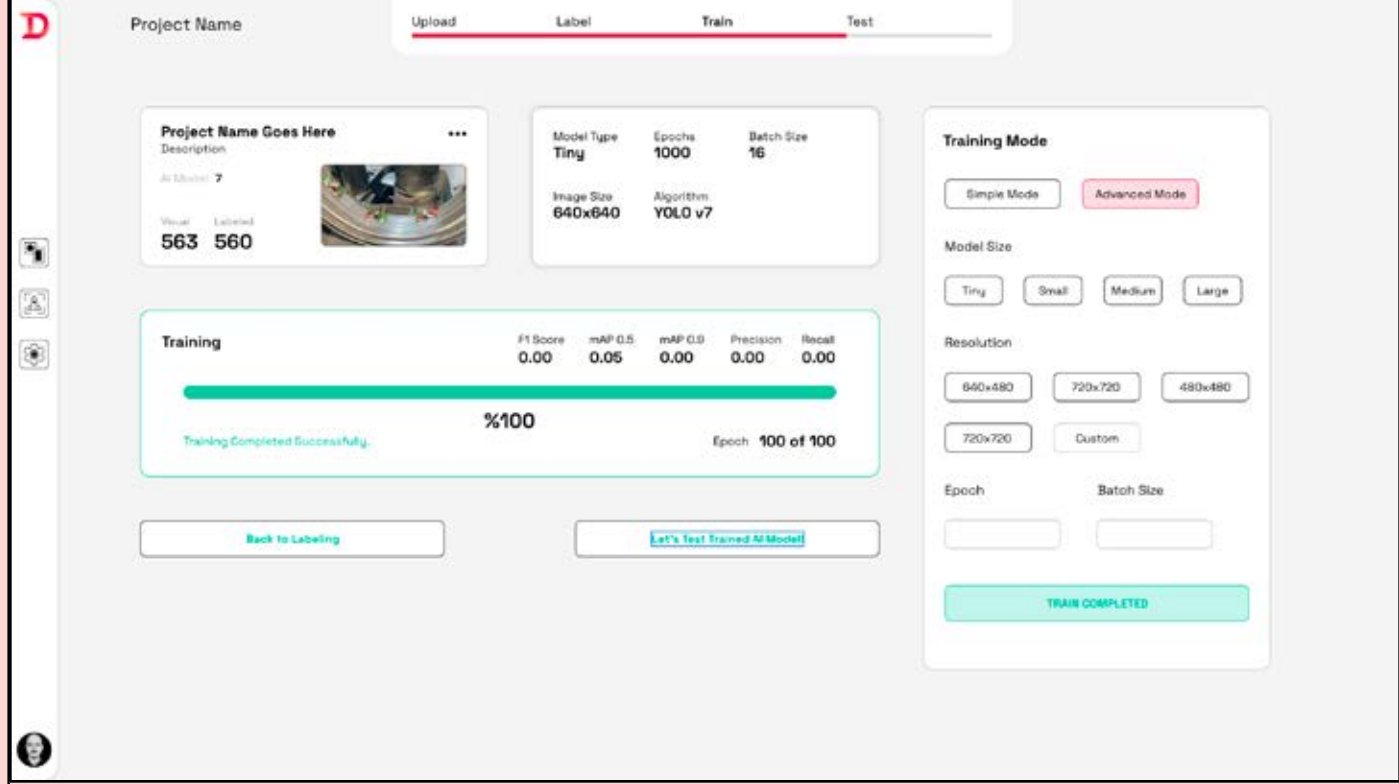
# 4 EASY STEPS TO COMPLETE YOUR AI PROJECTS

## UPLOAD



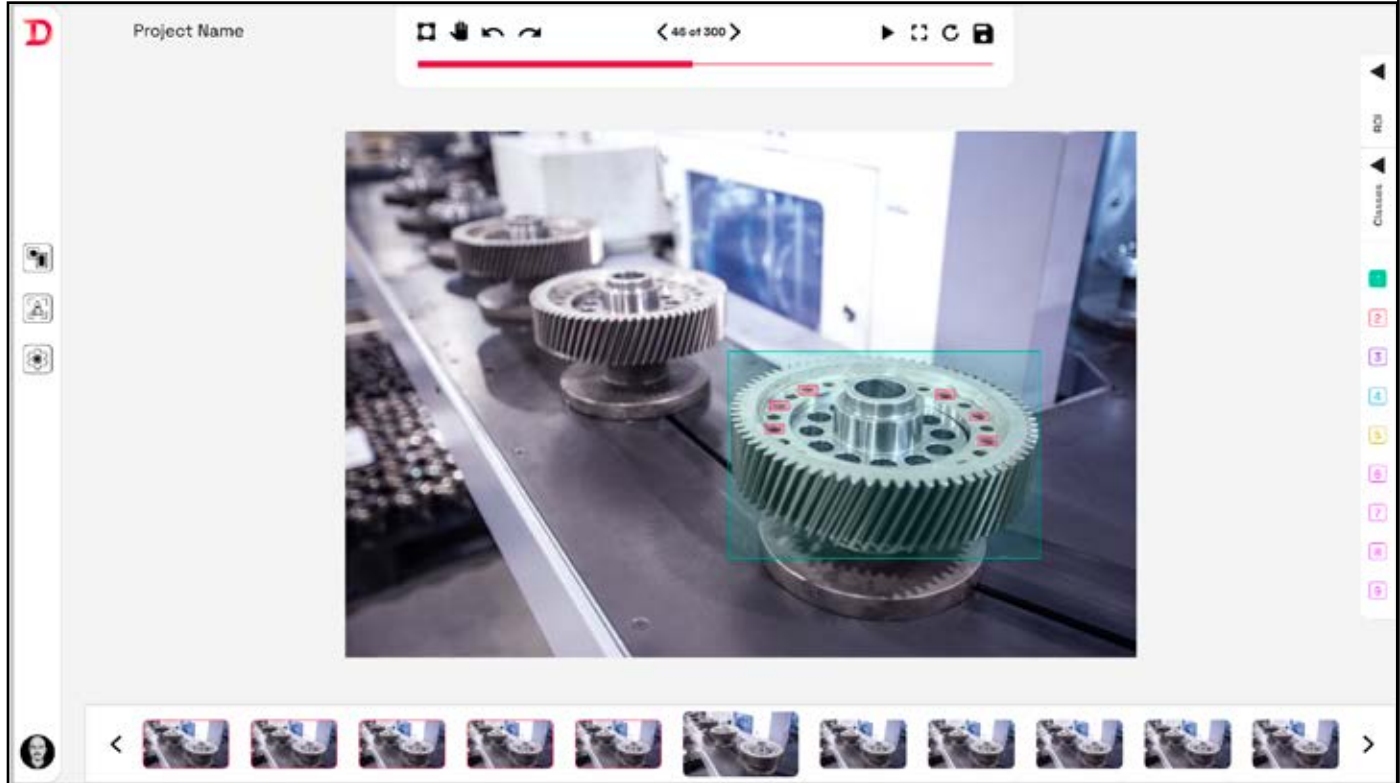
1

## TRAIN



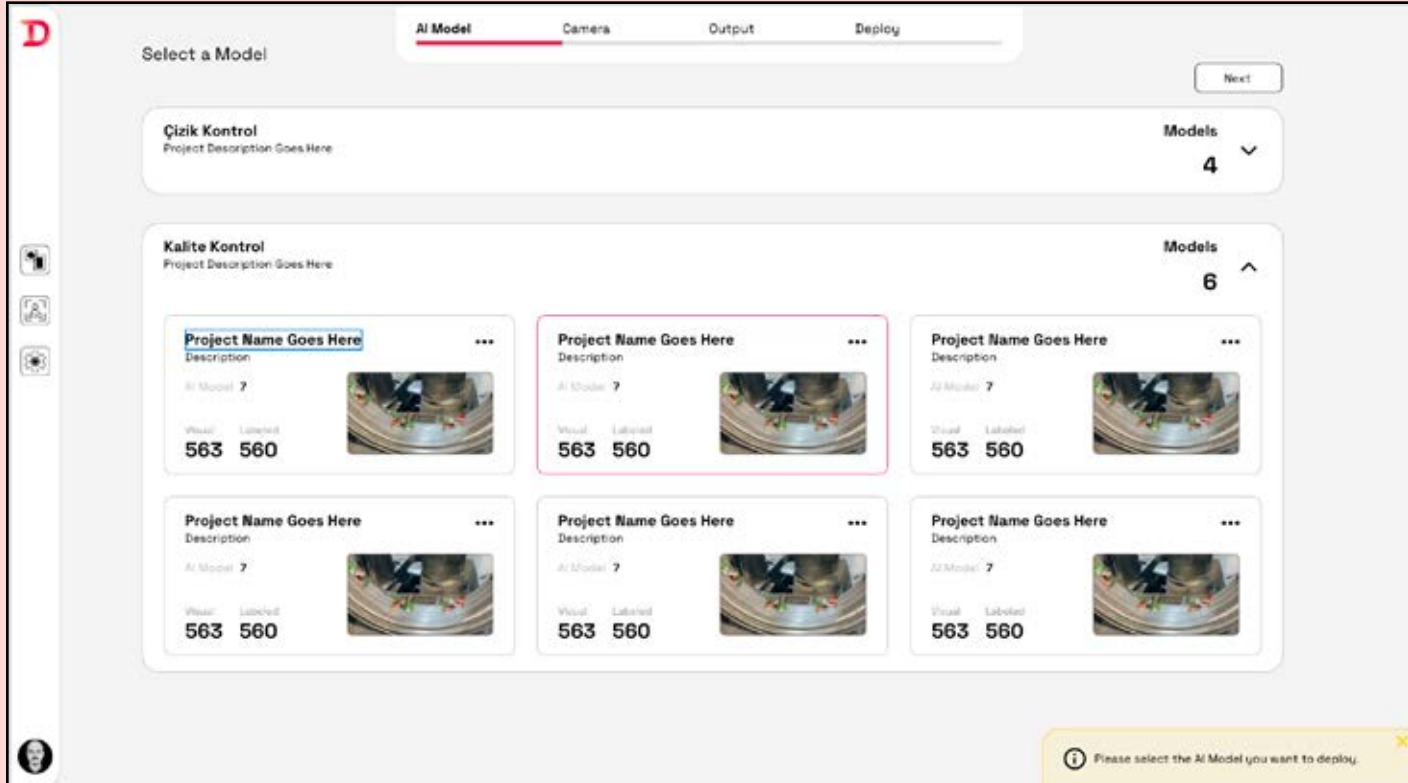
3

## LABEL



2

## DEPLOY



4



# ALL-IN-ONE SOLUTION PACKAGES

## INSPECTOR STANDARD

AI Model

Up to 1 Model

### INDUSTRIAL EDGE AI COMPUTER

NVIDIA JETSON ORIN NANO 8GB

AI Performance **40 TOPS**

<b>GPU</b>	1024-core NVIDIA Ampere architecture GPU with 32 tensor cores
<b>Max GPU Freq.</b>	625Mhz
<b>CPU</b>	6-core Arm Cortex-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
<b>CPU Max Freq.</b>	1.5 GHz
<b>DL Accelerator</b>	2x NVDLA v1
<b>Vision Acc.</b>	2x PVA v1
<b>Memory</b>	8GB 128-bit LPDDR5 68GB/s
<b>Storage</b>	2x M.2 Key-M 250GB SSD
<b>Video Encode</b>	1080p30 supported by 1-2 CPU cores
<b>Video Decode</b>	1 x 4K60 (H.265)   2 x 4K30 (H.265)   5 x 1080p60 (H.265)   11 x 1080p30 (H.265)
<b>PCIe</b>	1 x 4 + 3 x 1 (PCIe Gen3, Root Port, and Endpoint)
<b>USB</b>	3 x USB 3.2 Gen2(10Gbps)   3 x USB 2.0
<b>Networking</b>	1 x GbE
<b>Display</b>	1 x 4K30 multi-mode DP 1.2 (+MST)/eDP 1.4/HDMI 1.4
<b>Other I/O</b>	3 x UART, 2 x SPI, 2 x I2S, 4 x I2C, 1 x CAN, DMIC & DSPK, PWM, GPIOs
<b>Power</b>	7W - 15W
<b>Operating Temp.</b>	-10C / 60C
<b>Dimensions</b>	110 x 130 x 60mm
<b>Weight</b>	760 gr



### INDUSTRIAL AI CAMERA

**4 TOPS** of processing power (1.4 TOPS for AI - RVC2 NN Performance)

**Run any AI model**, even custom architected/built ones (models need to be converted)

**Active stereo** IR dot projector improves depth perception, especially for low-visual-interest surfaces by projecting thousands of IR dots to the scene.

**Night vision** IR illumination LED enables running your AI and CV algorithms in low-light or no-light environments

**Encoding** H.264, H.265, MJPEG - 4K/30FPS, 1080P/60FPS

**Computer vision** warp (undistortion), resize, crop via ImageManip node, edge detection, feature tracking. You can also run custom CV functions

**Stereo depth** perception with filtering, post-processing, RGB-depth alignment, and high configurability

BNO086 **IMU** single chip 9 axis sensor with embedded sensor fusion

**Object tracking** 2D and 3D tracking with ObjectTracker node

**Dimensions** 111 x 40 x 31.3mm

**Weight** 184g

# ALL-IN-ONE SOLUTION PACKAGES

## INSPECTOR PRO

AI Model

Up to 4 Models

### INDUSTRIAL EDGE AI COMPUTER

NVIDIA JETSON ORIN NX 16 GB

AI Performance **100 TOPS**

<b>GPU</b>	1024-core NVIDIA Ampere architecture GPU with 32 tensor cores
<b>Max GPU Freq.</b>	918MHz
<b>CPU</b>	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU2MB L2 + 4MB L3
<b>CPU Max Freq</b>	2 GHz
<b>DL Accelerator</b>	2x NVDLA v1
<b>Vision Acc.</b>	2x PVA v1
<b>Memory</b>	16GB 128-bit LPDDR5 102.4GB/
<b>Storage</b>	2x M.2 Key-M 250GB SSD
<b>Video Encode</b>	1x 4K60   3x 4K30   6x 1080p60   12x 1080p30 (H.265) H.264, AV1
<b>Video Decode</b>	1x 8K30   2x 4K60   4x 4K30   9x 1080p60   18x 1080p30 (H.265) H.264, VP9, AV1
<b>PCIe</b>	3 x1 + 1 x4 PCIe Gen 4
<b>USB</b>	3x USB 3.2 Gen2
<b>Networking</b>	1 × GbE
<b>Display</b>	1x 8K30 multi-mode DP 1.4a (+MST)/eDP 1.4a/HDMI 2.1
<b>Other I/O</b>	3 × UART, 2 × SPI, 2 × I2S, 4 × I2C, 1 × CAN, DMIC & DSPK, PWM, GPIOs
<b>Power</b>	10W - 25W
<b>Operating Temp.</b>	-10C / 60C
<b>Dimensions</b>	110 x 130 x 60mm
<b>Weight</b>	760 gr



### INDUSTRIAL AI CAMERA

**4 TOPS** of processing power (1.4 TOPS for AI - RVC2 NN Performance)

**Run any AI model**, even custom architected/built ones (models need to be converted)

**Active stereo** IR dot projector improves depth perception, especially for low-visual-interest surfaces by projecting thousands of IR dots to the scene.

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**Encoding** H.264, H.265, MJPEG - 4K/30FPS, 1080P/60FPS

**Computer vision** warp (undistortion), resize, crop via ImageManip node, edge detection, feature tracking. You can also run custom CV functions

**Stereo depth** perception with filtering, post-processing, RGB-depth alignment, and high configurability

BNO086 **IMU** single chip 9 axis sensor with embedded sensor fusion

**Object tracking** 2D and 3D tracking with ObjectTracker node

**Dimensions** 111 x 40 x 31.3mm

**Weight** 184g



# ALL-IN-ONE SOLUTION PACKAGES

## INSPECTOR ADVANCED

AI Model

Up to 10 Models

### INDUSTRIAL EDGE AI COMPUTER

NVIDIA JETSON ORIN AGX 32GB

AI Performance **200 TOPS**

<b>GPU</b>	512-core NVIDIA Volta™ GPU with 64 Tensor Cores
<b>Max GPU Freq.</b>	918MHz
<b>CPU</b>	8-core NVIDIA Carmel Arm®v8.2 64-bit CPU 8MB L2 + 4MB L3
<b>CPU Max Freq</b>	2 GHz
<b>DL Accelerator</b>	2x NVDLA v1
<b>Vision Acc.</b>	2x PVA v1
<b>Memory</b>	32 GB 256-bit LPDDR4x 136.5GB/s
<b>Storage</b>	2x M.2 Key-M 250GB SSD
<b>Video Encode</b>	4x 4K60 8x 4K30 16x 1080p60 32x 1080p30 (H.265) 4x 4K60 8x 4K30 14x 1080p60 30x 1080p30 (H.264)
<b>Video Decode</b>	2x 8K30 6x 4K60 12x 4K30 26x 1080p60 52x 1080p30 (H.265) 4x 4K60 8x 4K30 16x 1080p60 32x 1080p30 (H.264)
<b>PCIe</b>	1x8 + 1x4 + 1x2 + 2x1 (PCIe Gen4, Root Port & Endpoint)
<b>USB</b>	3x USB 3.1 + 4x USB 2.0
<b>Networking</b>	1x GbE
<b>Display</b>	1x 8K30 multi-mode DP 1.4a (+MST)/eDP 1.4a/HDMI 2.1
<b>Other I/O</b>	3x UART, 2x SPI, 2x I2S, 4x I2C, 1x CAN, DMIC & DSPK, PWM, GPIOs
<b>Power</b>	15W - 30W
<b>Operating Temp.</b>	-10C / 60C
<b>Dimensions</b>	160 x 110 x 95mm
<b>Weight</b>	1340 gr



### INDUSTRIAL AI CAMERA

**4 TOPS** of processing power (1.4 TOPS for AI - RVC2 NN Performance)

**Run any AI model**, even custom architected/built ones (models need to be converted)

**Active stereo** IR dot projector improves depth perception, especially for low-visual-interest surfaces by projecting thousands of IR dots to the scene.

**Night vision** IR illumination LED enables running your AI and CV algorithms in low-light or no-light environments

**Encoding** H.264, H.265, MJPEG - 4K/30FPS, 1080P/60FPS

**Computer vision** warp (undistortion), resize, crop via ImageManip node, edge detection, feature tracking. You can also run custom CV functions

**Stereo depth** perception with filtering, post-processing, RGB-depth alignment, and high configurability

BNO086 **IMU** single chip 9 axis sensor with embedded sensor fusion

**Object tracking** 2D and 3D tracking with ObjectTracker node

**Dimensions** 111 x 40 x 31.3mm

**Weight** 184g

**STANDARD**

**PRO**

**ADVANCED**

**AI Model**

**1 Model**

**Up to 4 Models**

**Up to 10 Models**

**Integrated Hardware Module**

NVIDIA JETSON ORIN NANO 8GB

NVIDIA JETSON ORIN NX 16 GB

NVIDIA JETSON ORIN AGX 32GB

**AI Performance**

**40 TOPS**

**100 TOPS**

**200 TOPS**

**GPU**

1024-core NVIDIA Ampere Architecture GPU  
with 32 Tensor Cores

1024-core NVIDIA Ampere Architecture GPU  
with 32 Tensor Cores

512-core NVIDIA Volta™ GPU  
with 64 Tensor Cores

**Max GPU Freq.**

625 MHz

918 MHz

918 MHz

**CPU**

6-core Arm Cortex-A78AE v8.2 64-bit CPU  
1.5MB L2 + 4MB L3

8-core Arm® Cortex®-A78AE v8.2 64-bit CPU  
2MB L2 + 4MB L3

8-core NVIDIA Carmel Arm®v8.2 64-bit CPU  
8MB L2 + 4MB L3

**CPU Max Freq**

1.5 GHz

2 GHz

2 GHz

**DL Accelerator**

2x NVDLA v1

4x NVDLA v1

8x NVDLA v1

**Vision Accelerator**

2x PVA v1

4x PVA v1

8x PVA v1

**Memory**

8GB 128-bit LPDDR5 68GB/s

16GB 128-bit LPDDR5 102.4GB/

32 GB 256-bit LPDDR4x 136.5GB/s

**Storage**

M.2 Key-M 250GB SSD

2x M.2 Key-M 250GB SSD

2x M.2 Key-M 250GB SSD

**Video Encode**

1080p30 supported by 1-2 CPU cores

1x 4K60 | 3x 4K30 | 6x 1080p60  
12x 1080p30 (H.265) H.264, AV1

4x 4K60 8x 4K30 16x 1080p60  
32x 1080p30 (H.265) 4x 4K60 8x 4K30  
14x 1080p60 30x 1080p30 (H.264)

**Video Decode**

1 x 4K60 (H.265) | 2 x 4K30 (H.265)  
5 x 1080p60 (H.265) | 11 x 1080p30 (H.265)

1x 8K30 | 2x 4K60 | 4x 4K30  
9x 1080p60 | 18x 1080p30 (H.265)  
H.264, VP9, AV1

2x 8K30 | 6x 4K60 | 12x 4K30 | 26x 1080p60  
52x 1080p30 (H.265) | 4x 4K60 | 8x 4K30  
16x 1080p60 | 32x 1080p30 (H.264)

**PCIe**

1 x 4 + 3x1 (PCIe Gen3, Root Port, and Endpoint)

3 x1 + 1x4 PCIe Gen 4

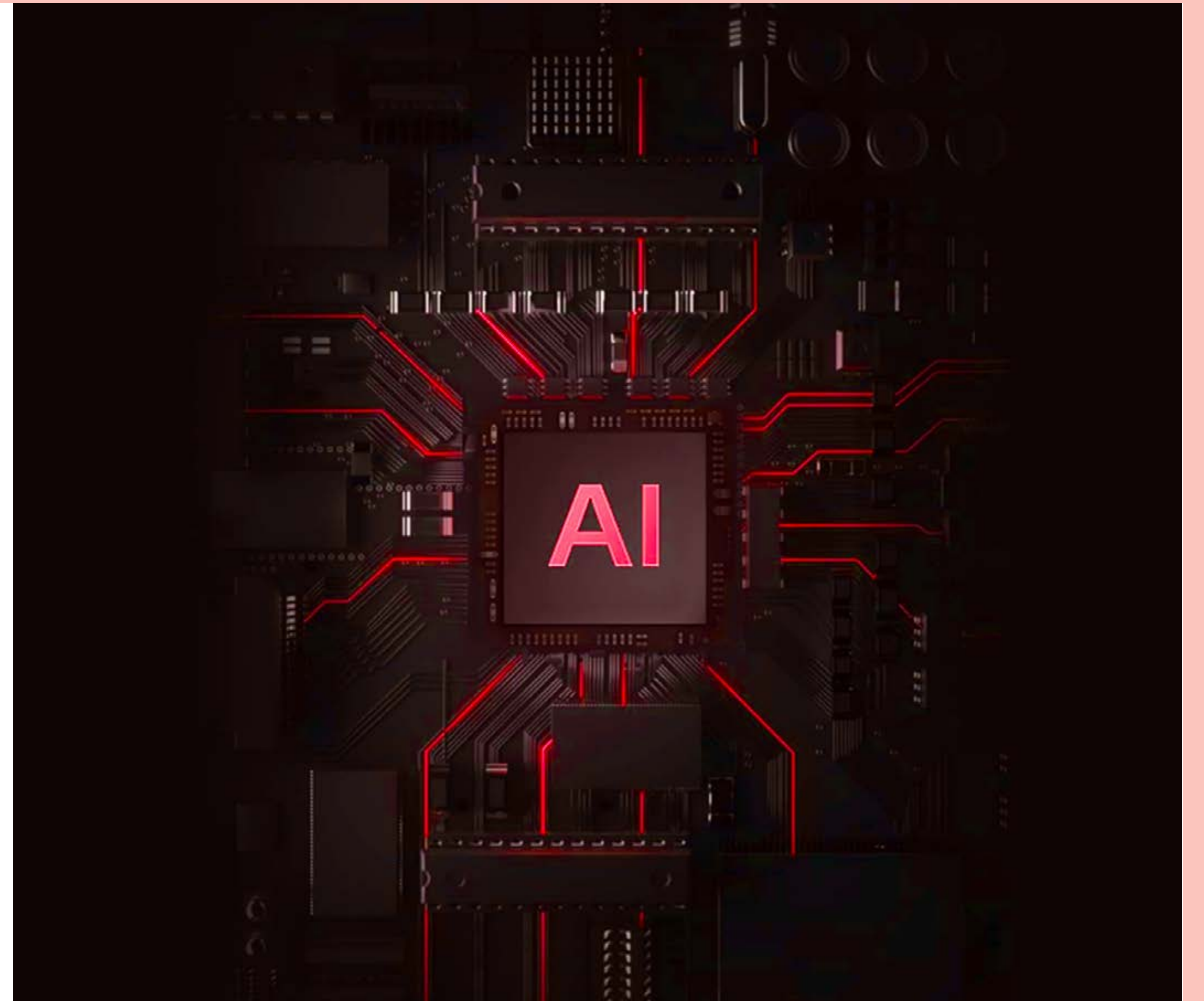
1x8 + 1x4 + 1x2 + 2 x1 (PCIe Gen4, Root Port & Endpoint)



## INSPECTOR ENTERPRISE

Our Dataguess Inspector Enterprise solution runs multiple projects on a central server. Server requirements and license models are determined according to project needs. Don't hesitate to contact our sales department for more detailed information about the Dataguess Inspector Enterprise solution.

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**Less Effort,  
More Benefit.**

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