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# nSpec Version 0.25.0.0

**Release Date:** 09 Apr 2025

**Documentation Updated:** 14 Apr 2025

**Major Features:** Gen V AI, SMIF Handling, Milara Robot, Cassette Presence, Improved Rotation Accuracy, and more

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# Overview

The nSpec Version 0.25.0.0 release introduces several significant enhancements

## Major Features

- **Gen V AI:** A new generation of transformer-based artificial intelligence, for improved accuracy and enhanced inspection throughput.
  - **SMIF Handling:** Introduction of SMIF (Standard Mechanical Interface) Pod handling for 150mm and 200mm wafer samples.
  - **Milara Robot:** Introduction of the Milara Robot, a new best-in-class robot for wafer handling in CPS systems
  - **Cassette Presence:** New features related to cassette presence detection & Cassette ID handling have been added.
  - **Improved Rotation Accuracy:** Enhancements in camera rotation accuracy should yield improved precision during alignment operations.
-

## Upgrading to v0.25.0.0



### Library Update Required

This version does require library updates to enable Gen V nTelligence. All dependencies can now be packaged for offline installation via nTest. For more information, please contact [support@nanotronics.ai](mailto:support@nanotronics.ai).

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# Major Enhancements

## Gen V AI

Gen V AI is nSpec's next generation of AI models, built on the latest transformer AI technology. It represents a paradigm shift in Nanotronics' AI technology, with improved out-of-the-box detection, classification, and speed. Additionally, Gen V features quality of life improvements that will make training models more efficient than in Gen IV. Most notably, Gen V enables per-class confidence and IOU configuration, a long awaited capability that has been one of the most frequently-requested features across all of nSpec.

A guide to getting started with Gen V AI can be found here:

[Gen V AI Model Training Guide](#)

## SMIF Pod Handling

The nSpec CPS can now support automated handling for 150mm and 200mm SMIF Pods! To add this capability, several new hardware modules have been incorporated into the nSpec CPS EFEM. This includes the following:

### **NSPEC-8745: SMIF Versaport 2200 Integration**

This load port handles 200mm SMIF pods. It is an Asyst Technologies system that is procured via Brooks. For more details, please refer to the hardware page:

[Asyst - Brooks | SMIF VersaPort INX 2200](#)

### **NSPEC-8746: SMIF 150mm Indexer Integration**

This load port handles 150mm SMIF pods. It is an Asyst Technologies indexer enhanced with an elevator for compatibility with nSpec CPS EFEM systems. For more details, please refer to the hardware page:

[Asyst - Brooks | SMIF Indexer INX2150R](#)

### **NSPEC-9043: Milara Robot Integration**

This new robot is compatible with nSpec CPS systems equipped with Modular Autoloaders. It can transfer variable sizes of wafers, and is suitable for high volume production environments. For more details, please refer to the hardware page:

Milara | H4

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# New Features

## Highlights

### **NSPEC-8671: Use BWA Information for Wafer Edge Exclusion/Inclusion**

This update enhances the wafer scanning process by utilizing Bare Wafer Alignment (BWA) properties to accurately exclude or include defects at the wafer edge. Previously, this was done using properties generated by the Wafer Prediction analyzer, which could be incorrect if not run. The new approach ensures that the necessary properties for edge exclusion/inclusion are derived from BWA, improving accuracy and reliability in defect analysis. This change is particularly beneficial for scenarios where Wafer Prediction analysis is not performed, as it leverages existing BWA data to avoid redundant processing and potential errors.

### **NSPEC-8974: Install Gen IV Environment to Versioned Folders**

Gen IV and Gen V Analysis have dependencies that require clean distinction between environment versions. This change was necessary to enable side-by-side usage of both Gen IV and Gen V AI analyzers. There should be no difference in user experience, however it is worth noting that you may observe the environment is in a new location following this update.

### **NSPEC-8926 & NSPEC-9047: Add Cassette Presence Detection via GEM for Loaders & Load Ports**

We've enhanced the nSpec system by adding cassette presence detection for SMP loaders and Load Ports using GEM. These changes add loaded/unloaded carrier and cassette detection, for the following load ports:

- Asyst Versaport 2200
- Asyst Indexer 2150
- TDK TASPLP
- Nanotronics Load Station
- Nanotronics Autoloader2
- Nanotronics Autoloader3 Gen2

When a cassette or carrier is placed, the GEM host should receive a `ACEID_LOADPORTSTATECHANGETOLOADED` (5020) event. When a cassette or carrier is removed, the GEM host should receive a `ACEID_LOADPORTSTATECHANGETONOTLOADED` (5021) event. Upon receipt the GEM host can immediately query the data variables `DVVAL_LoadPortCassetteStates` (9121) and `DVVAL_LoadPortStateChangeID` (9122) to get the current load port cassette states and the id of the load port that triggered the event.

The load port cassettes states value is a string of characters of this form, showing the state of all installed load ports:



```
"LoadPortId=[LOADED|NOT_LOADED], LoadPortId=[LOADED|NOT_LOADED],..."
```

The LoadPortId reflects the installed load port type:

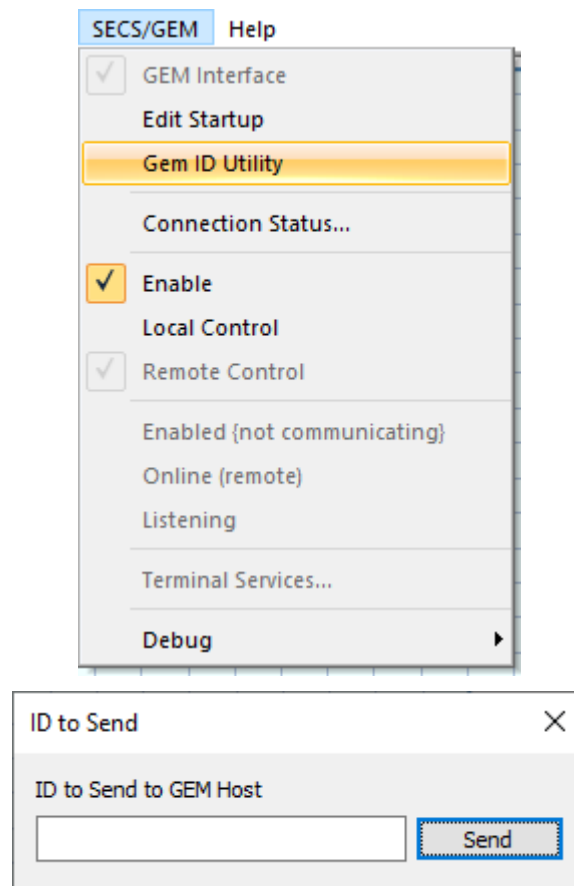
- Asyst VersaPort 2200 = ASYSTVERSAPORT
- Asyst Indexer 2150 = ASYSTINDEXER2150
- TDK\_TASPLP = TDK

For more information, refer to the Application Defined Variables section of the [SECS/GEM API Reference](#)

## NSPEC-9080: Barcode Window for GEM Messages

Operators now have the option to scan in a Barcode value to send to a GEM Host. This is intended to enable workflows where a GEM Host determines the correct nSpec Job to perform on this cassette based on its ID and current status from a centralized record source.

The window is available in the **GEM** dropdown menu in the nScan Window under the name **GEM ID Utility**, and is only available if GEM is enabled. Operators can enter the cursor in the text field, and use a barcode scanner to read the ID Code from a sample or cassette.



Once an operator hits the **Send** button, the following happens:

1. A GEM Event is emitted:

- a. Event Name: ACEID\_NewOperatorInputID
  - b. Event ID: 5025
2. A GEM Variable is set:
  - a. Variable Name: DVVAL\_OperatorInputID
  - b. Variable ID: 9126

Once the GEM host receives the 5025 event, it can use the S1F3 stream function to query the 9126 variable. The response can be used to determine subsequent actions and commands to send to nSpec.























## NSPEC-9113: Improve repeatability of camera rotation

Repeatability should be improved for  $< 0.1$  degree theta rotations. In previous versions a 0.05 degree parametric move will likely not change the image, whereas that *should* now move the edge of a field of view by a couple pixels, and you should observe improved consistency. This feature pairs well with [NSPEC-9179](#) for a marked improvement in device scanning positioning consistency.

## NSPEC-9143: nSpec Status Monitor

The nSpec Status monitor is an electrical board that customers can connect to with AUX connectors for a readout of nSpec EMO state and nSpec Software Status. It is compatible with all nSpec models, and is a new optional add-on available for tools. In production environments, this can be used as a single source of truth for monitoring the tool hardware and software production readiness status. The board also enables remote EMO for the nSpec hardware. For more information, please refer to [Status Monitoring Board](#)

## New Features Changelog

T	Key	Release Notes Summary
	<a href="#">NSPEC-7760</a>	Gen V AI Analysis
	<a href="#">NSPEC-8671</a>	Use BWA information for wafer edge exclusion/inclusion
	<a href="#">NSPEC-8688</a>	Add Field of View to the Cursor in Stage Default View
	<a href="#">NSPEC-8745</a>	SMIF Versaport 2200 Integration
	<a href="#">NSPEC-8746</a>	SMIF 150mm Indexer Integration
	<a href="#">NSPEC-8816</a>	Enable Ability to Adjust Annotation Sizes in Device Viewer
	<a href="#">NSPEC-8818</a>	Pause Job and Display OCR image for OCR Manual Entry
	<a href="#">NSPEC-8926</a>	Carrier Detection on Load Stations via GEM
	<a href="#">NSPEC-8939</a>	Add Simco Ionizers to nSpec
	<a href="#">NSPEC-8974</a>	Install Gen IV Environment to versioned folders
	<a href="#">NSPEC-9020</a>	Update Modular Autoloader Jobs from Wafer to Sized Wafers
	<a href="#">NSPEC-9025</a>	Create OCR Positions Per Wafer Size
	<a href="#">NSPEC-9026</a>	Enable Multiple Wafer Size Alignment Support of Logosol Prealigners
	<a href="#">NSPEC-9027</a>	Add Vacuum End Effector Verification
	<a href="#">NSPEC-9043</a>	Integrate Milara Robot
	<a href="#">NSPEC-9047</a>	Add Cassette Presence Detection via GEM for SMP Loaders
	<a href="#">NSPEC-9049</a>	Add Button to AutoloaderGUI to Set Indexer to Pick Position For Station Calibration
	<a href="#">NSPEC-9066</a>	Support Review Scanning a Z Sweep Per Position
	<a href="#">NSPEC-9080</a>	Barcode Window for GEM Messages
	<a href="#">NSPEC-9113</a>	Improve repeatability of camera rotation
	<a href="#">NSPEC-9143</a>	nSpec Status Monitor
	<a href="#">NSPEC-9181</a>	Add Milara Robot Speed Settings to ProgramOptions

## Bug Fixes

### Highlights

#### **NSPEC-8896: Cancel Sample and Cancel Scan result in same behavior during group job**

For group jobs in v0.24.1.4, toggling either the **Cancel Sample** and **Cancel Scan** buttons would result in the same behavior.

With this fix, **Cancel Scan** has been renamed to **Cancel All** for clarity.

Clicking **Cancel Sample** will end the current and all pending jobs in the group job for the sample, and the sample will be returned to the cassette. Clicking **Cancel All** will cancel all jobs for the entire cassette.

#### **NSPEC-9012: Device Yield Report can Error if no FallThrough bin Specified**

Prior to this fix, if a Device Yield nJson file specified a non-existent id as its `FallThrough` bin, nView would fail to properly render the Device Yield report. This fix adds additional integrity checks, and fails the analysis if the FallThrough bin is improperly specified. nView will also fail with more informative messages to help correct the issue within the nJson file.

#### **NSPEC-9068: nView cannot open line-type defect reports**

Prior to this fix, nView would crash if you attempted to open a line-type defect report.

#### **NSPEC-9017: Flat Field on transposed non-square images is not persistent**

Following recent enhancements to the handling of binning within flat field correction, an edge case existed where flat fields would not persist across nSpec sessions if the following were true:

1. Camera Crop was non-square
2. Transpose Images = 1
3. Flip Images Vertically = 1

## NSPEC-9139: Cannot Use Rev0 Nanotronics Illuminator Boards

We have two versions of the Nanotronics Illuminator board (common to nSpec PRISM tools). The original revision (referred to as revision 0) has VID/PID = 16D0 / 0F88 . We eventually added the capability to control lights on this board but we wanted to make a distinction between ones that could and could not control lights, so we made a second VID/PID pair ( 3628 / 0002 ) and considered this board revision 1.

Most functionality is the same on these two boards, the only difference being light control is available on revision 1. However, the software is checking that *either* board exists, and then tries to connect to a revision 1 board. That means if you have a revision 0 board, you pass the first check and then fail to connect to *revision 1* board that does not exist on the tool. ***This blocks startup.*** This issue has now been corrected.

## NSPEC-9179: DI Alignment Misalignments

We have learned that there was a bug within our north-south alignment routine that could cause an extremely small misalignment of the south fiducial on the order of 0-5 pixels. The end impact observed was that the scan position may be several pixels shifted from the desired position. In most applications the error is well within Device Inspection Analysis positional tolerances, however there are some low-tolerance applications where this misalignment did cause intermittent false positive defect detections. This alignment error has now been corrected.

## NSPEC-9182: nInstall error when fresh installing nSpec v0.24.2.7

nSpec version v0.24.2.7 does upgrade and perform nominally, however if performing a fresh installation a bug within the installer prevents successful completion. For this reason, v0.24.2.7 is not being distributed and instead we are jumping to version v0.24.2.8 for general release. Version v0.24.2.8 rolls together features and bug fixes from both versions.

## NSPEC-9191: FFC Isn't cleared when Switching Image Settings

This previously only occurred in the event a given flat field configuration was missing. For example, for a given permutation of objective, slider state, illumination type, binning, and color format, nSpec previously claimed to load the default flat field configuration (which is simply gain == 1 and offset == 0), but actually had not since the default configuration was never prepared. The effect of this was that images would be captured with a previous flat field setting, incorrectly mapped - this could lead to instances of slightly bright or dark spots, or poor vignetting. This issue has now been corrected.

# Changelog

T	Key	Release Notes Summary	Affected Releases
	<a href="#">NSPEC-7994</a>	Cannot Delete Device Scans	0.23.1.0, 0.24.0.0, 0.24.1.0, 0.24.2.0
	<a href="#">NSPEC-8885</a>	Default custom reporter settings do not work	0.24.1.0, 0.24.2.0
	<a href="#">NSPEC-8899</a>	Fiducial analyzer performance slowdown	0.23.0.7
	<a href="#">NSPEC-8901</a>	nScan does not send 'ACE_ScanningError' (5005) event after alignment errors	0.24.2.0
	<a href="#">NSPEC-8902</a>	nScan doesn't send 'ACE_AllAnalysesAborted' (5022) event when User Cancels Queued Analyses	0.24.2.0
	<a href="#">NSPEC-8921</a>	Incorrect sample ID when exporting analyses due to error in sample name field	0.24.0.2
	<a href="#">NSPEC-8950</a>	Tile overlap values doubled for device scans	0.24.0.0, 0.23.0.5, 0.24.1.0, 0.24.2.0
	<a href="#">NSPEC-8986</a>	nView tile view shows gray tiles for color images	0.24.2.0
	<a href="#">NSPEC-8992</a>	Default Custom Exporter settings do not work	0.24.1.0, 0.24.2.0
	<a href="#">NSPEC-9012</a>	Device Yield Report can Error if no FallThrough bin Specified	0.24.2.1, 0.24.2.2, 0.24.2.3
	<a href="#">NSPEC-9038</a>	Defects shifted on mosaic if Overlap used	0.24.0.0, 0.24.1.0, 0.24.2.0
	<a href="#">NSPEC-9041</a>	Non-Uniform Grid Fails to Start from Top-Left of Device	0.24.2.0
	<a href="#">NSPEC-9070</a>	MESIntegration does not startup	0.24.2.3, 0.24.2.6, 0.24.2.8
	<a href="#">NSPEC-9086</a>	nView "Adjust Threshold" and "Adjust Brightness/Contrast" cause blank image	0.24.2.3, 0.24.2.6, 0.24.2.8
	<a href="#">NSPEC-9107</a>	Flat Field on transposed non-square images is not persistent	0.24.2.0, 0.24.2.1, 0.24.2.2, 0.24.2.3, 0.24.2.4
	<a href="#">NSPEC-9114</a>	U-MIXR light source does not respond to 'UseNosepieceSlider' job property	0.24.0.0, 0.24.1.0, 0.24.2.0, 0.23.0.8
	<a href="#">NSPEC-9127</a>	Precision Autofocus not working when using Turbo Camera Crop	0.24.2.0, 0.24.2.6
	<a href="#">NSPEC-9139</a>	Cannot Use Rev0 Nanotronics Illuminator Boards	0.24.2.3, 0.24.2.6
	<a href="#">NSPEC-9179</a>	DI Alignment can Intermittently have Milliradian Misalignments	0.22.0.0, 0.23.0.0, 0.24.0.0, 0.24.1.0, 0.24.2.0
	<a href="#">NSPEC-9182</a>	nInstall error when fresh installing nSpec v0.24.2.7	0.24.2.7
	<a href="#">NSPEC-9191</a>	FFC isn't cleared when switching Image Settings	0.21.0.0, 0.22.0.0, 0.22.1.0, 0.23.0.0, 0.23.1.0, 0.24.0.0, 0.24.1.0, 0.24.2.0
	<a href="#">NSPEC-9197</a>	Device Yield Crashes when Opening Tile View	0.24.2.0

# Appendices

## Appendix A - Gen V AI

### Overview

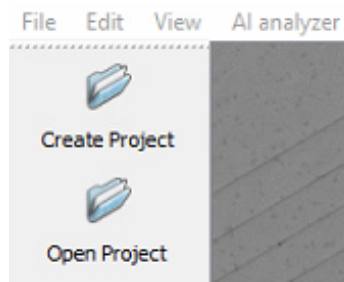
Gen V AI is nSpec's next generation of AI models, built on the latest transformer AI technology. Gen V models have been pre-trained and can detect defects out-of-the-box. Additionally, Gen V features quality of life improvements that will make training models more efficient than in Gen IV.

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### Usage

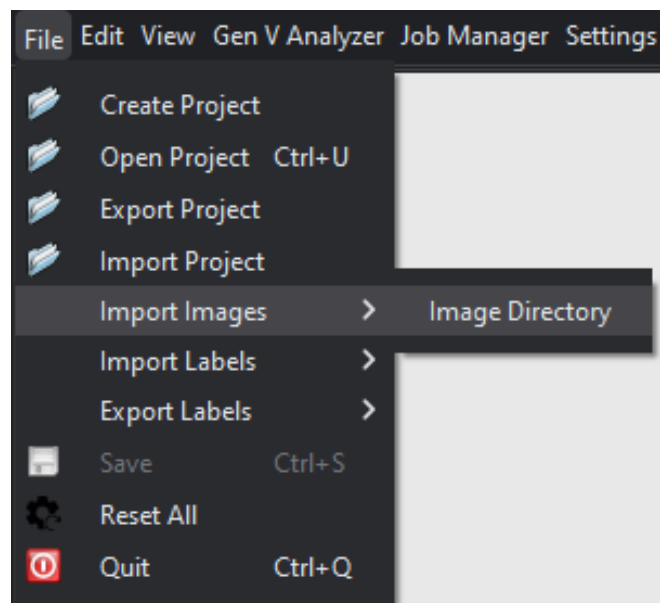
#### Create or Open Project

First, create a new project, or open an existing Gen IV AI project folder. Note that Gen IV AI models are not compatible with Gen V AI Analysis, but Gen IV project files can be opened and retrained as Gen V models.



## Import Images

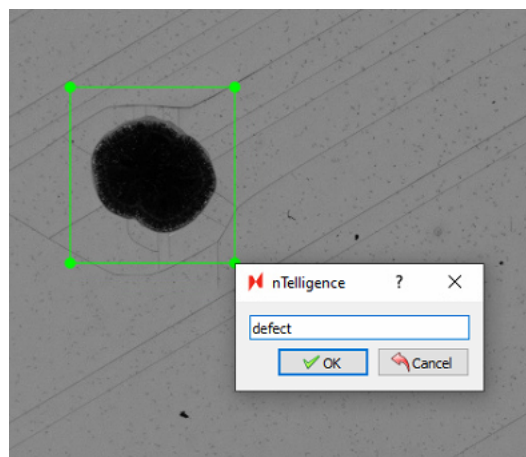
Next, if creating a new project, import images for training at **File > Import Images > Image Directory**.



## Label Images

Next, you will need to label **all** defects of interest in all training images by selecting defects with your cursor. An in-depth guide on labelling best practices can be found at [Gen IV AI Training Guide](#).

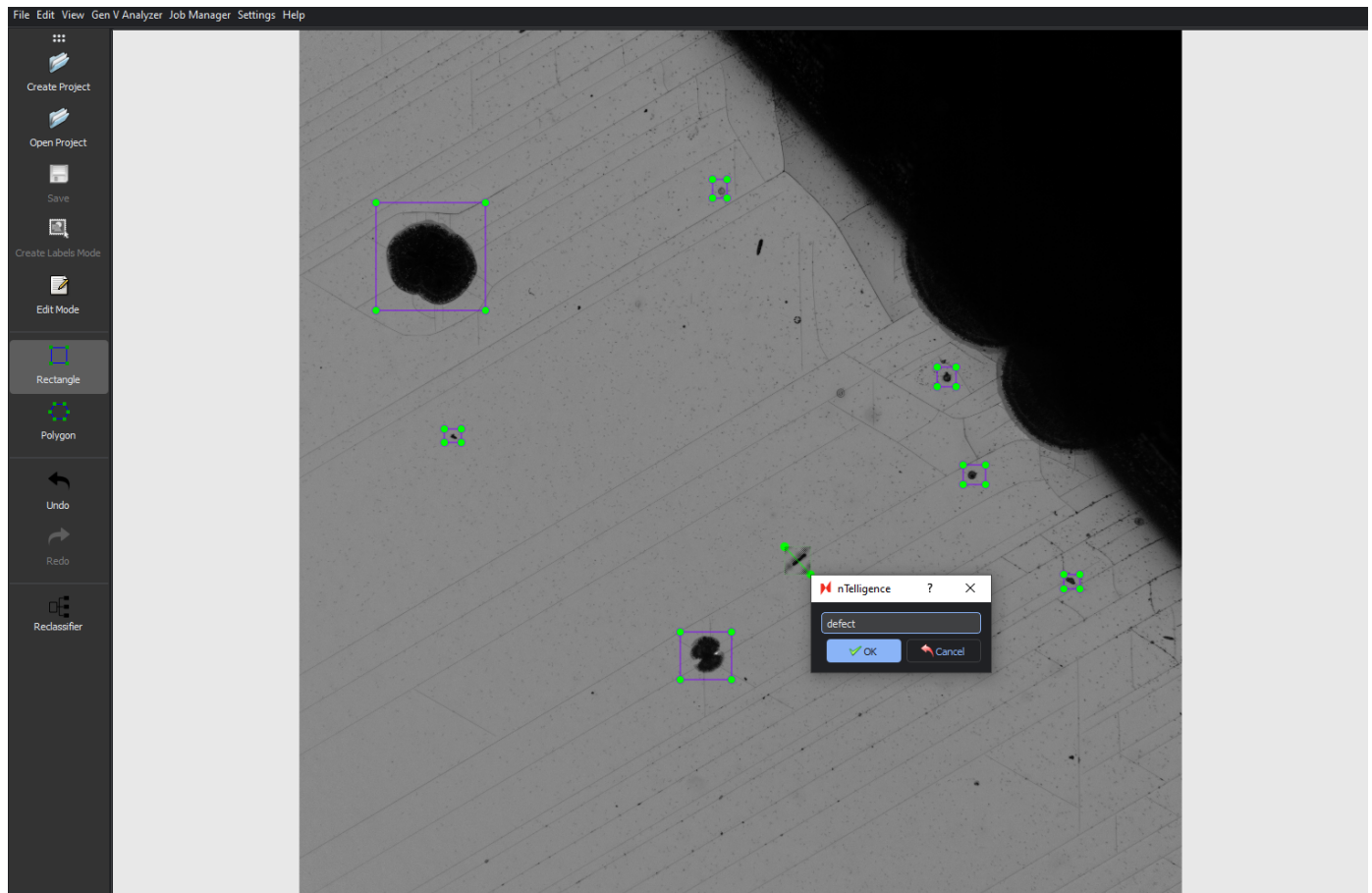
Drag and drop to make your selection, then label with the name of the defect class.



You **must** label all defects in all images for optimal training results. Make sure to **Save** any labels created on a given image before labelling other images.



Enabling **Edit Mode** will allow you to resize, reposition, or delete any labels.

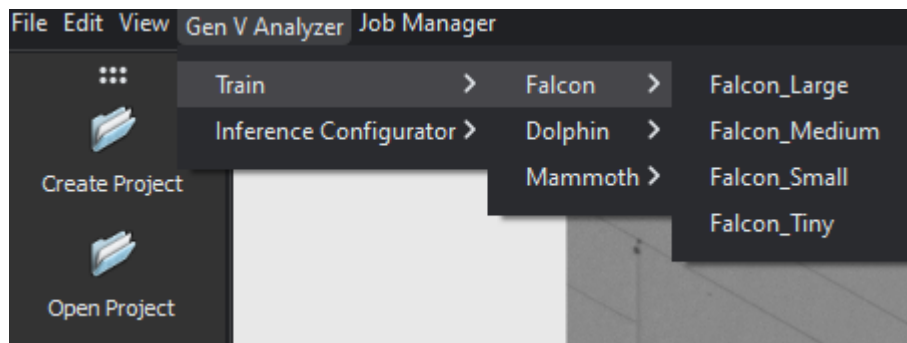


## Model Selection

After labeling images, select an AI model framework to train on from the menu located at **Gen V Analyzer > Train**.

There are three categories of models – **Falcon**, **Dolphin**, and **Mammoth**. **Falcon** models are the smallest in size, which means that training and classification times are shortest. **Dolphin** models are mid-size models. **Mammoth** models are the largest – they run the slowest but are the most accurate models.

We recommend that you start training with the **Falcon\_Tiny** model, and increase to the **Falcon\_Small**, then **Falcon\_Medium**, and ultimately the **Falcon\_Large** model size if necessary. If the **Falcon** models are not adequate, we recommend the **Dolphin** models, then the **Mammoth** models, starting with the smallest model in each category.



## Selecting Training Parameters

This dialog allows you select parameters for training your AI model. After selecting parameters, click **Train** to start training.

Project directory:  Change directory

Batch Size:  8

☒ Use pretrained models?

**Pretrained model selection**

☒ General base model

☐ Semiconductor base model

☐ Custom selection

Select...

☒ Resume training?

**Resume training selection**

☒ Auto resume training

☐ Select checkpoint file to resume training

Select...

GPU ID:

☒ Early Stop

☐ Defects have fixed geometric features?

☐ Defects have fixed color properties?

Cancel Train

## Batch Size

Batch size refers to the number of images processed during a single training iteration. It can be adjusted using the sliding input. The maximum batch size is automatically set based on your computer's GPU size.

## Pretrained Model Selection

We highly recommend enabling the **Use pretrained models?** option. Otherwise, you will be training a model from scratch. You can choose from the following pretrained models to begin training on:

- **General base model**, a basic model ideal for general use cases.
- **Semiconductor base model**, a specialized model for semiconductor defects.
- **Custom selection**, only for use with custom trained models generated by Nanotronics applications engineers.

## Resume Training Selection

Choose how nTelligence will proceed in case of any errors during training:

- **Auto resume training**, which will allow you to resume training from the most recently completed training iteration.
- **Select checkpoint file to resume training**, which will begin training at the selected training checkpoint.

## GPU ID

This selection allows you to choose which GPU to use for training.

### Early Stop

If **Early Stop** is enabled, will end training if the model converges before training is completed. Convergence is achieved when the loss function is at a stable minimum. This means that the model training is sufficient and further training will not significantly improve the model predictions.

## Defects have fixed geometric properties?

This option should be enabled when your samples have consistent geometric properties, for example, if you have crystalline slipline defects that occur at fixed angles, or certain defects that occur at fixed sizes, check this box.

## Defects have fixed color properties?

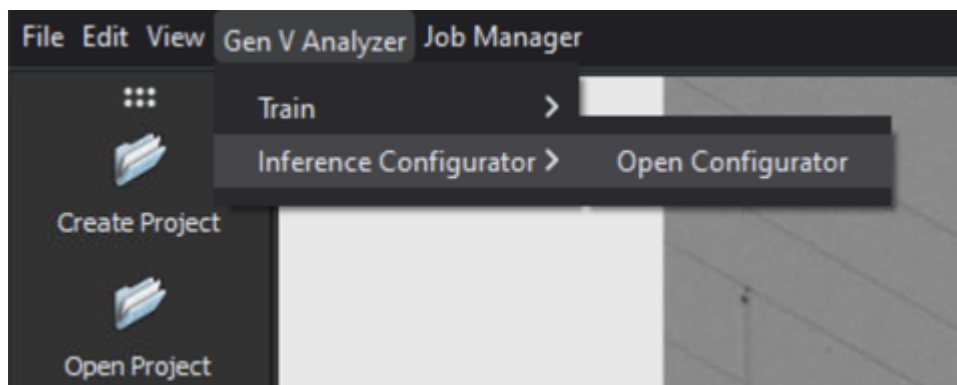
This option should be enabled when your defects of interest are always the same color. For example, if you have particle defects that are always black, you should check enable this option.

## Training Model

After configuring training parameters,

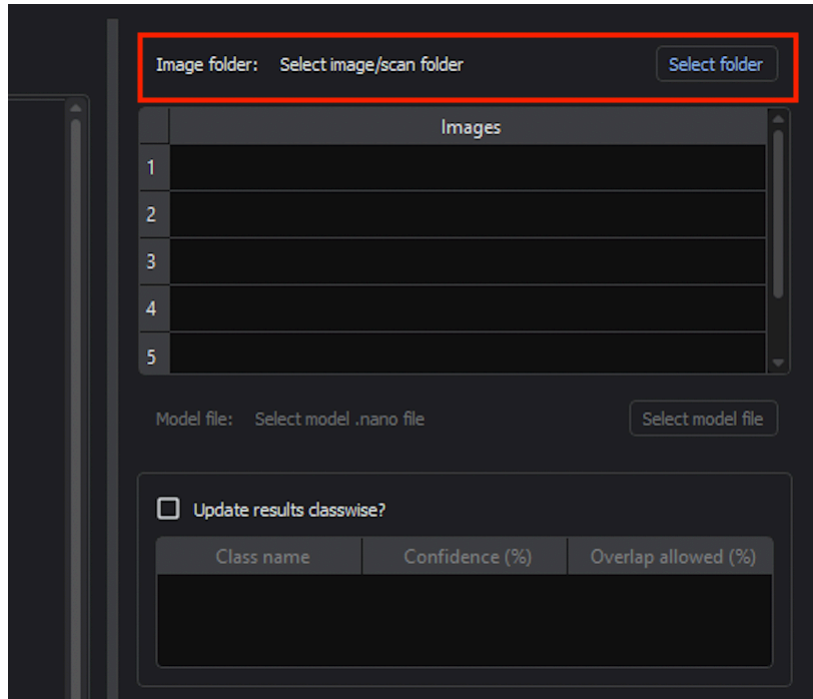
## Refining Model

After training a model, you can quickly tweak a few of the model's parameters without re-training in the **Inference Configurator**. To open the dialog, navigate to **Gen V Analyzer > Inference Configurator > Open Configurator**.



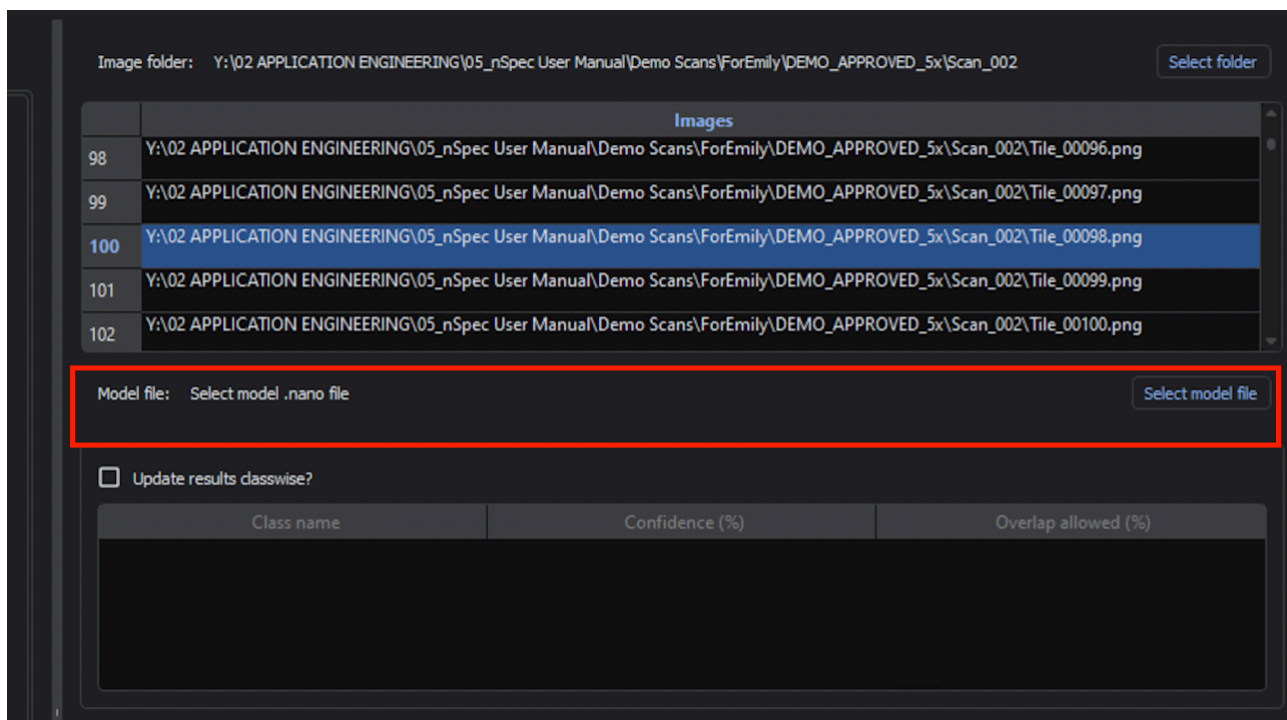
## Setting up the Inference Configurator

Use **Select Folder** to select an image scan folder with the training or testing data.



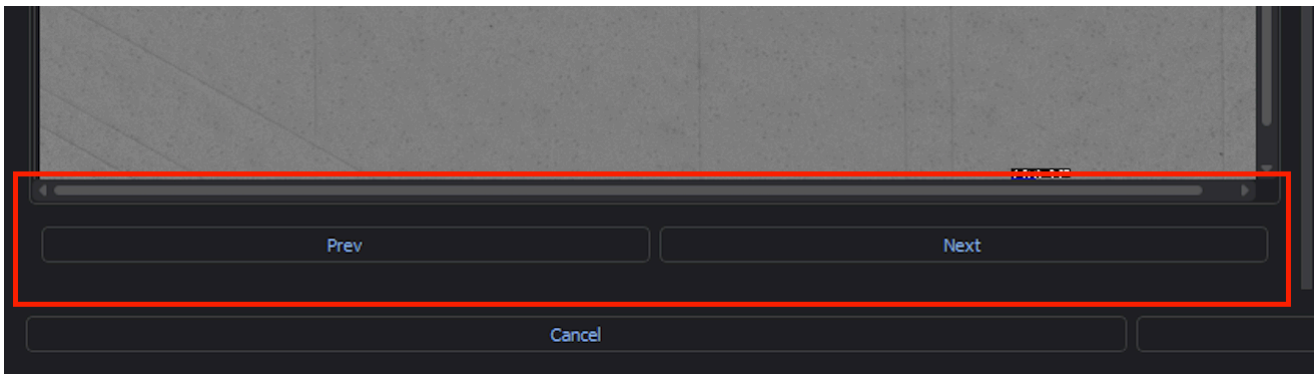
Use **Select model file** to select the model you just trained. The model should be located within the project directory. For example, a model might be located at `project_directory/gen_v_training/falcon_tiny/2025_01_23_20_12_22/epoch_100.nano`.

There is checkpoint model file saved every 10 epochs during training. We recommend using the last model file.

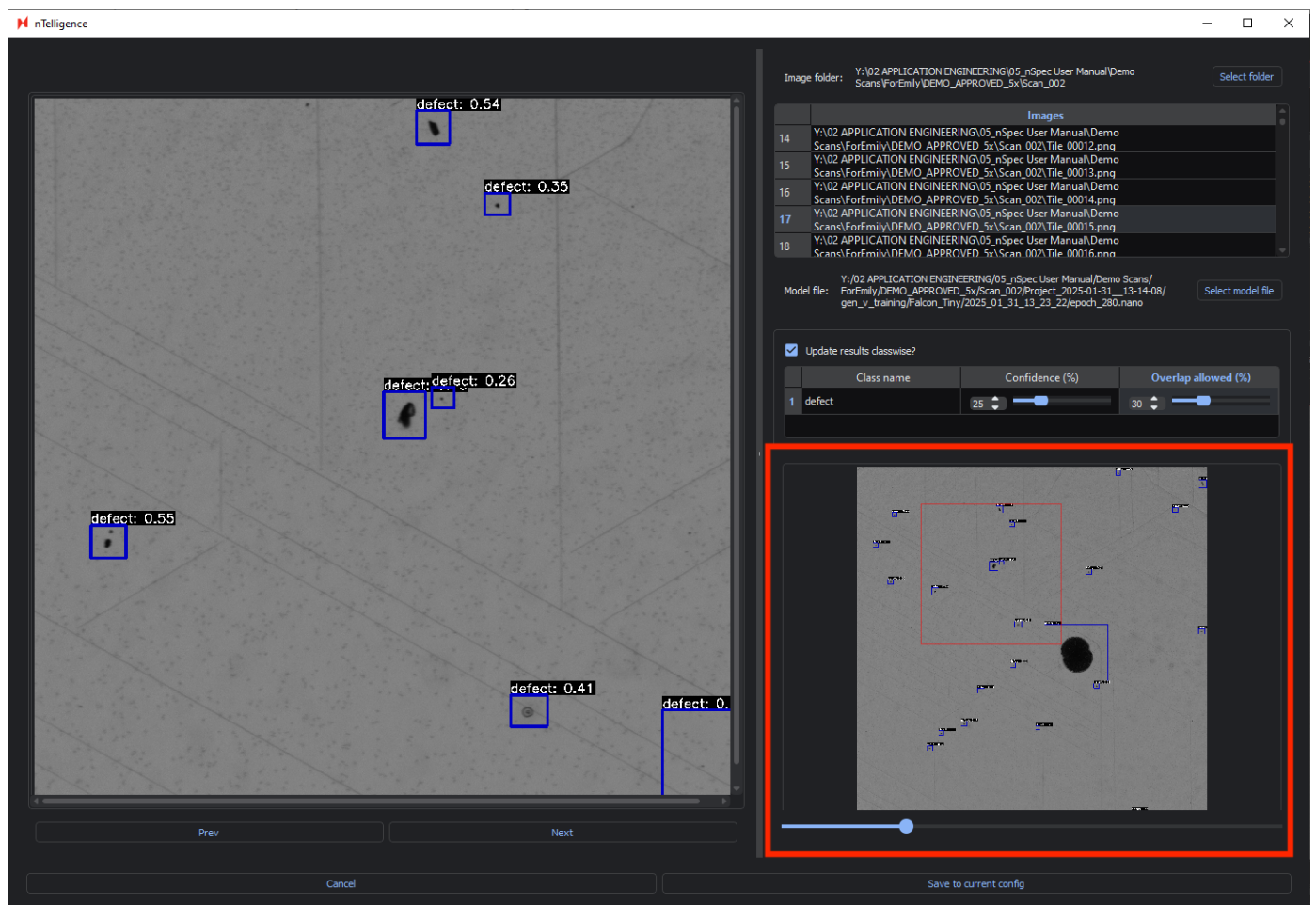


## Navigating the Inference Configurator

You can navigate between different images using **Prev** and **Next** or directly select an image in the **Images** navigator.



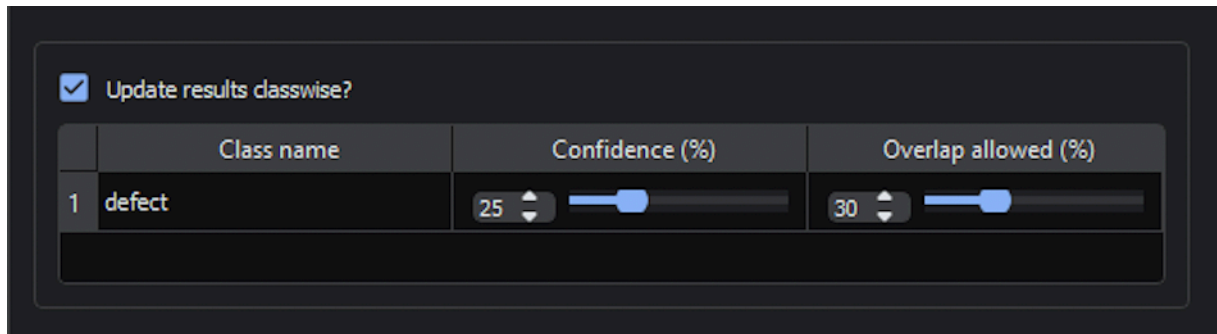
Additionally, you can zoom in on the current image using the slider input. You may also click within the bottom right view of the image to zoom in to different parts of the image.



## Adjusting Confidence Interval and Allowed Overlap Percentage

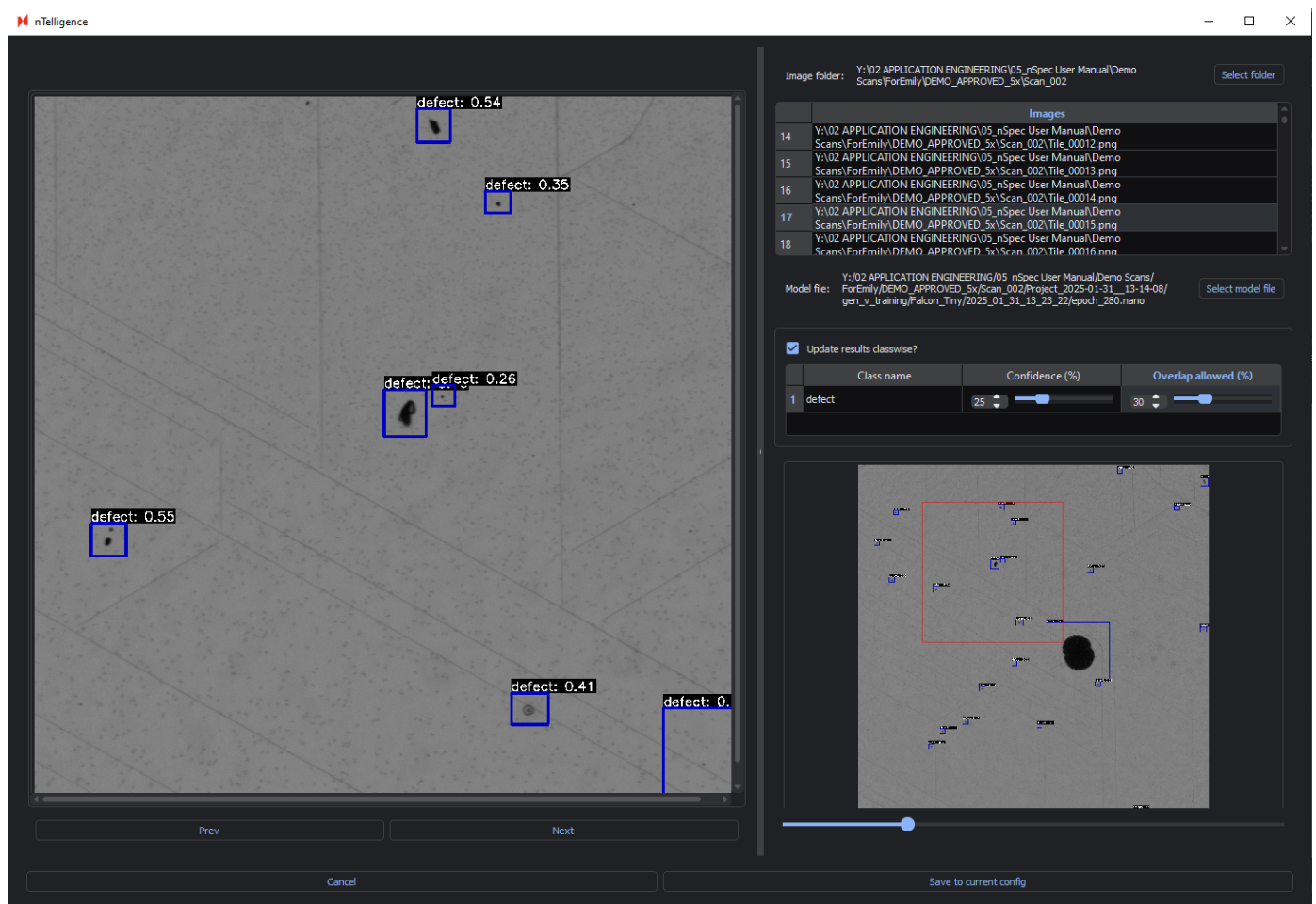
For each class, you can adjust the **Confidence** interval and **Overlap allowed** percentage. You must enable **Update results classwise?** to change these values.

After the initial model training, by default the **Confidence** percentage is 25% and **Overlap allowed** percentage is 30%.



Adjusting the **Confidence** will adjust the model's minimum confidence threshold for classifying a given defect. Each defect is labelled with its classification and confidence interval.

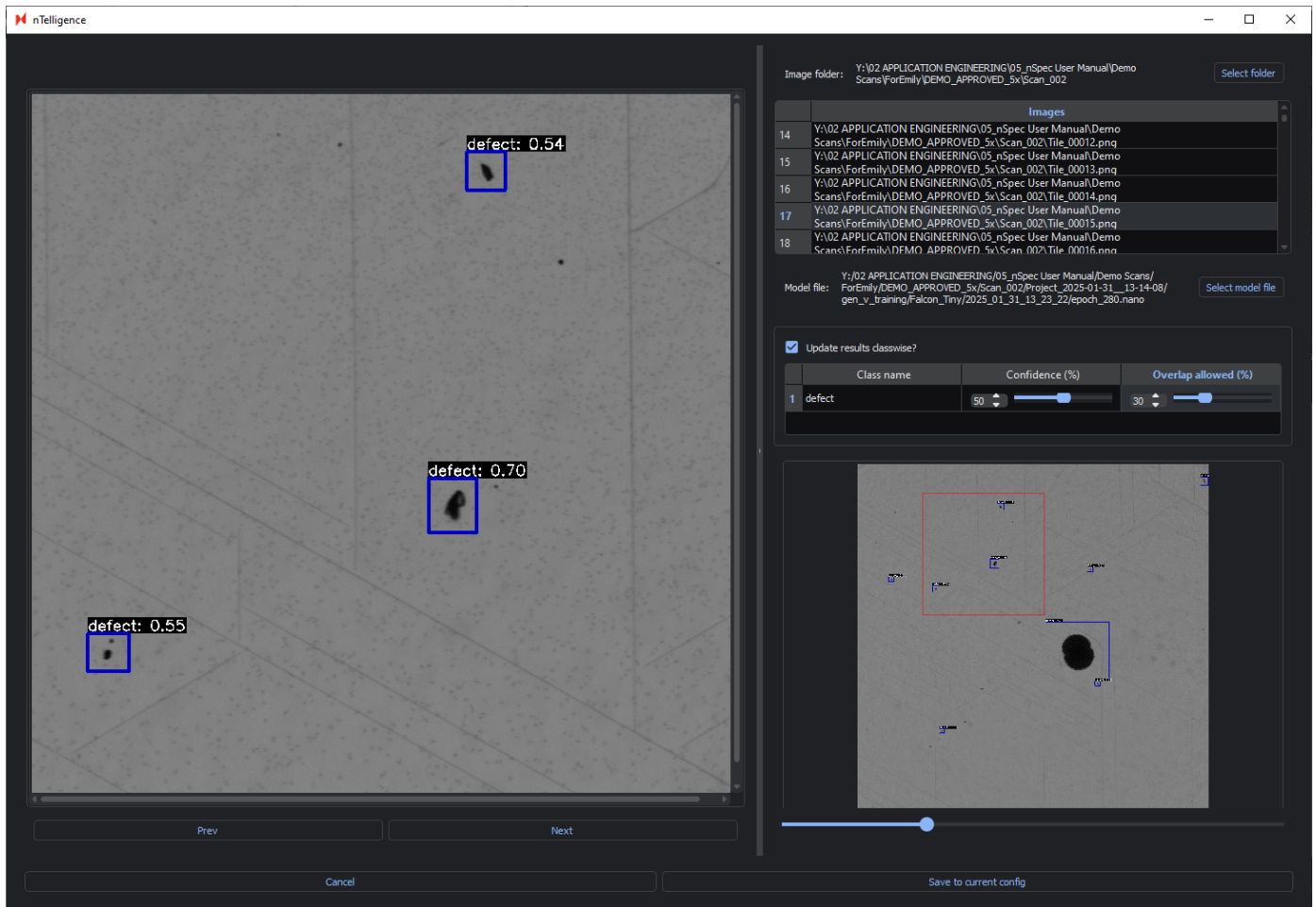
For example, here is one image with the default parameters:



Adjusting the **Confidence** percentage will show you in real-time which defects are identified or ignored when changing the confidence interval.

Below is the same image with an increased **Confidence** of 50% and the same **Overlap allowed** percentage. Only defects classified with 50% confidence or higher are labelled.

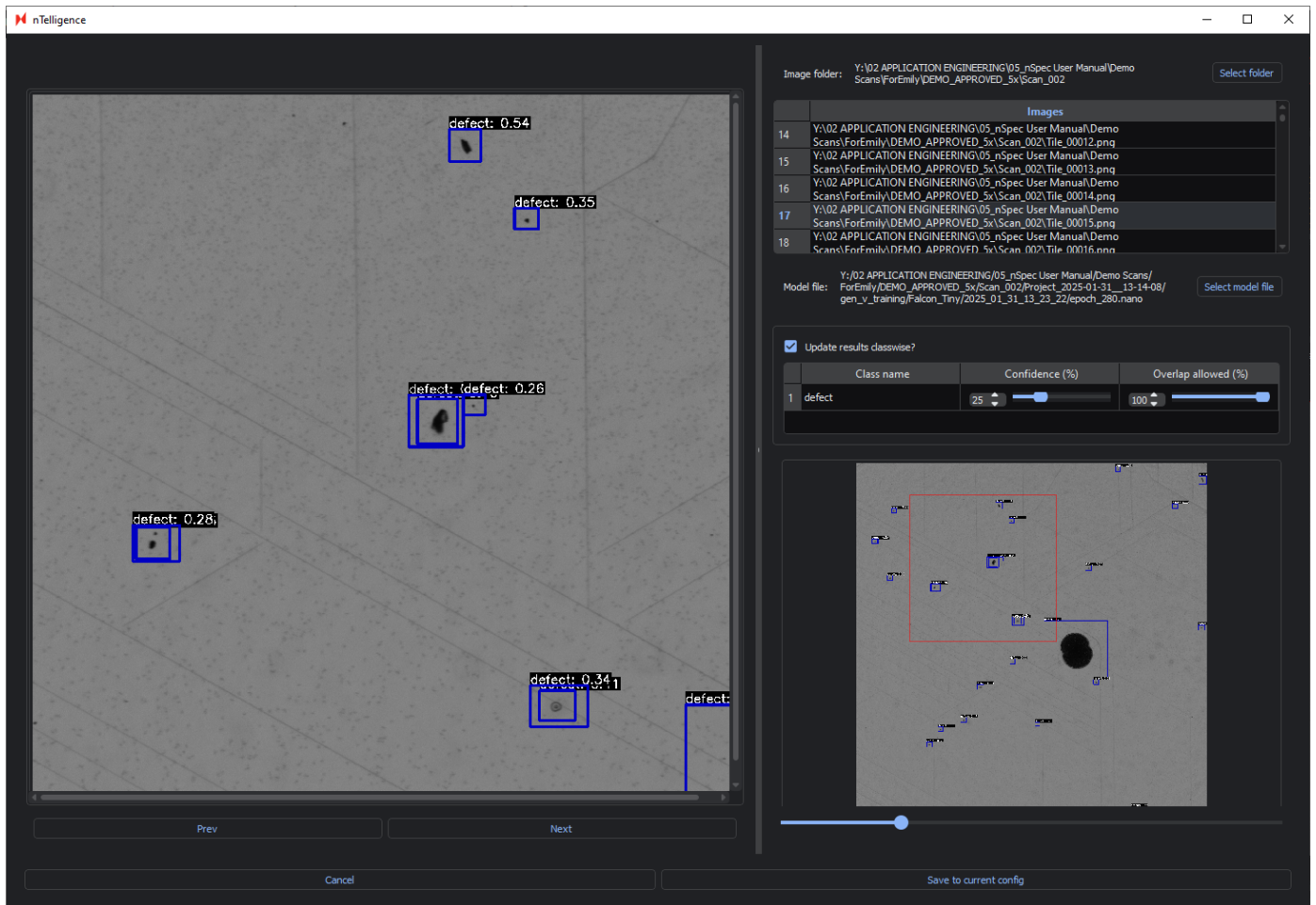




Adjusting the **Overlap allowed** percentage adjusts how much overlap in defect bounding boxes is allowed before defects are considered a single defect.

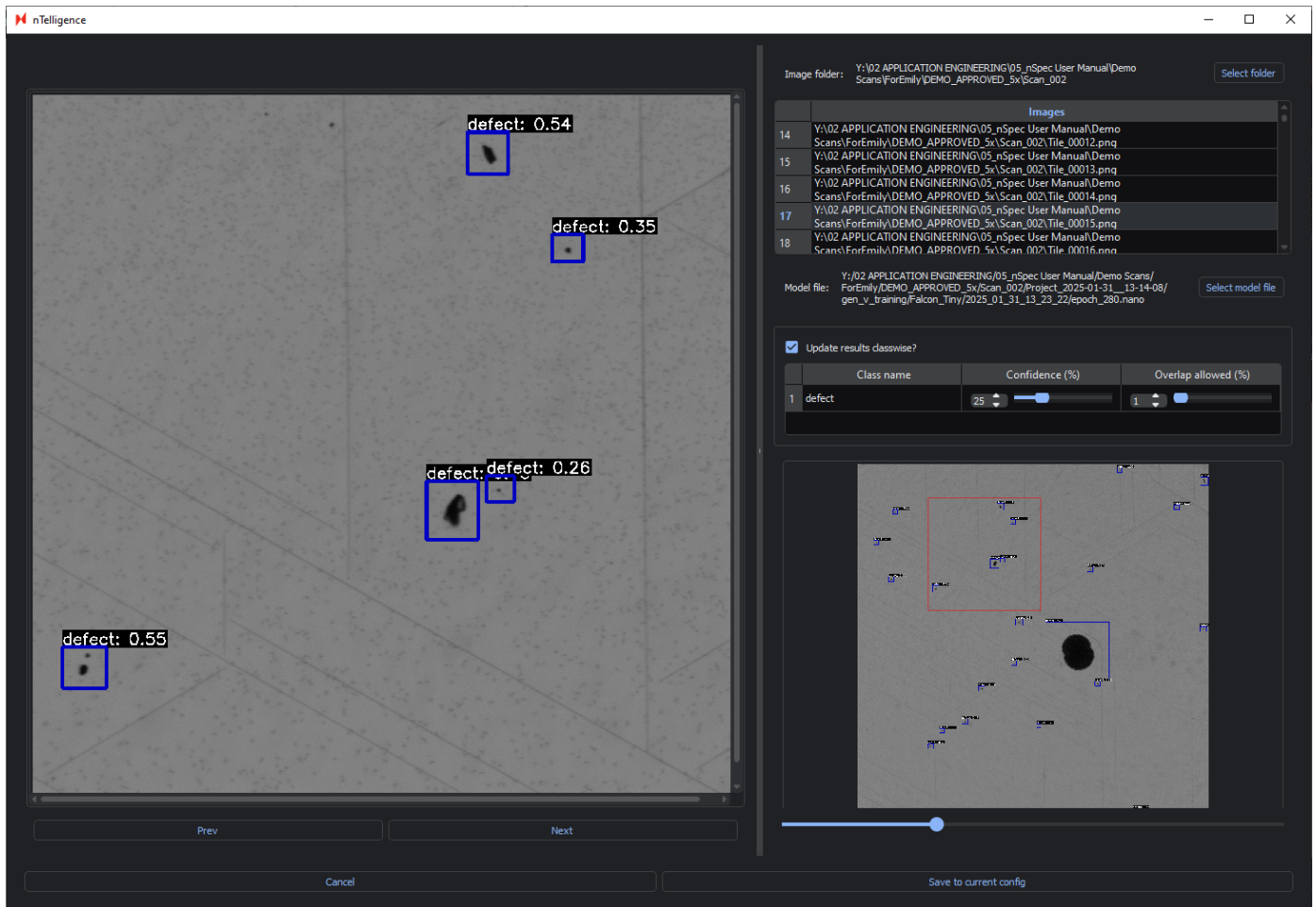
Having a high **Overlap allowed** percentage is recommended when identifying continuous defects like sliplines, whereas having a lower percentage is ideal for identifying discrete points.

In the image below, the **Confidence** is set to 25% and the **Overlap allowed** to 100%. You can see that this results in overlapping bounding boxes.



In the following image, the **Overlap allowed** has been decreased to 1%, meaning there can be very minimal overlap between bounding boxes. The **Confidence** remains at 25%.





## Deploying Model

After adjusting the **Confidence** and **Overlap allowed** parameters, make sure to **Save to Current Config**. These parameters will be saved to the .nano model file.

When running a **Gen V AI Analysis** in nSpec, make sure to point to this .nano model file using the **Model Path** parameter. You **cannot** point to a .nano model file trained with Gen VI AI here.

Additionally, you must point to `C:\Nanotronics`

`Imaging\nTelligence\application\6.2.6\run_inference.bat` for the **Interpreter Path** parameter.

Analysis Parameters

Analysis: Gen V AI Analysis

Group: Default

Description: Gen V Analysis Parameters

	P.△	Name	Type	Low	PV	High	Default	Picklist	Desc
01		Model Path	PickFile		C:\		C:\	nano	Path on disk to the model file to be used
02		Interpreter Path	PickFile		C:\		C:\	bat	Path on disk to the interpreter used to run the Gen V server
03		Batch Size	Long	1	8	32	8		Should be a power of 2. Number of images processed at a time. Limited by GPU memory
04		Export JSON	PickList		TRUE		TRUE	TRUE, FALSE	Set to TRUE to export analysis results to JSON file. Set to FALSE to disable.

<

>

Reload

Default

Save

Save As

Close