



# NDT SIMULATOR

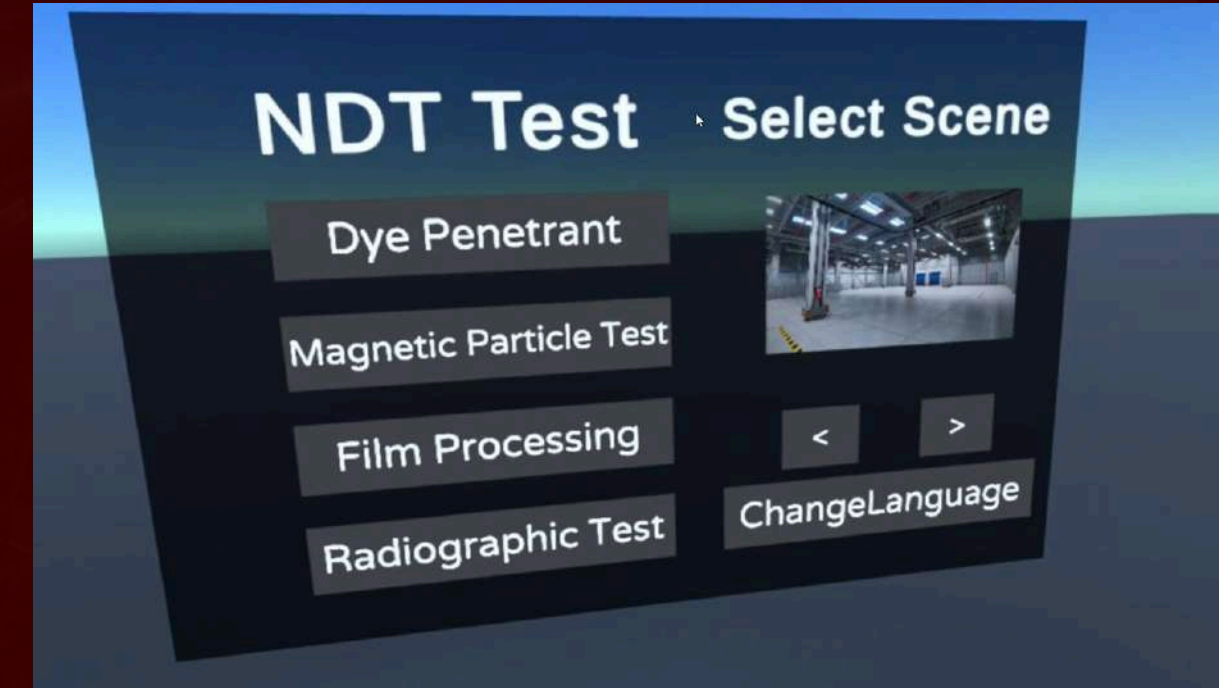
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WELDMART



# WHAT IS THE NDT SIMULATOR?

The NDT Simulator is an advanced training solution designed to enhance non-destructive testing education for TVET institutions, training centres, and industry professionals. It provides a realistic and interactive learning environment where students can practise NDT inspection techniques safely and cost-effectively, without the risks, consumables, or limitations of conventional training. By simulating real inspection scenarios, the NDT Simulator improves student understanding, inspection accuracy, and confidence, while helping institutions deliver consistent, modern, and industry-relevant training.



## KEY BENEFITS



### Cost Saving

- 60% cost saving on teaching aid such as tools, machining and training materials. One VR system replaces a full workshop setup.



### Immersive & Engaging

- High-quality 3D visuals and interactive interfaces keep students focused and motivated throughout the training.



### Improved Training Efficiency

- Improved training efficiency by offering immersive hands-on experience that boost knowledge retention and reduce training time.



### Highly Efficiency

- Students can train anytime, anywhere and no class schedules or tool limitations. All actions are tracked for self-assessment and progress review.



### Safe Training Environment

- Student can practice without risk of injury, accidents, or tool mishandling. Ideal software for beginners and young learners.



### Repeatable Practice

- Students can retry exercises as many times as needed with no tool wear, no wasted materials, no extra cost.



# WHY CHOOSE NDT SIMULATOR FOR TVET?

## Reduce Training Costs

Traditional fitter training needs costly equipment and space, while VR simulation runs on a computer, cutting training costs significantly.

## Improve Training Efficiency

VR training allows practice anytime, anywhere, with automatic progress tracking for self-assessment and improved efficiency.

## Enhance Interest in Learning

VR training uses 3D graphics and interactivity to boost student interest, immersion, and learning outcomes.





# 4 TYPE NDT TEST



## Dye Penetrant Test



## Magnetic Particle Test



## Radiography Film Processing



## Radiographic Test







# TECHNICAL PARAMETERS

## HARDWARE – PICO G3

### FRAME RATE

- $\geq 1K$ , picture frame rate  $\geq 72$  frames

### PROCESSOR

- Snapdragon™ XR2 processor with 128GB storage and 6GB LPDDR4X RAM

### RESOLUTION

- 1832 x 2160 per eye at 773 PPI with a combined resolution of 3664 x 1920

### WEIGHT

- 604 grams / 1.33 lbs

### DIMENSION

- 310mm x 190mm x 112mm



## SOFTWARE

- has an immersive real experience that can transform the passive listening teaching mode into an immersive, interactive, and exploratory new teaching experience
- supports interaction with the virtual world to enhance the overall user experience
- has a prompt function, with relevant prompts during the operation
- uses the unity3d professional engine production function to ensure the simulation effect





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