







# **Introducing VISTA.**



Students become proficient and maintain their skills without access to the real equipment

- in a classroom environment;
- In standalone mode;
- on the job.

Applications are open-ended graphical models of systems. They include:

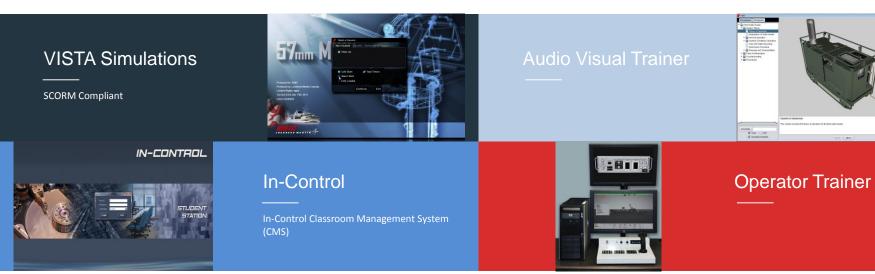
- units and equipment;
- tools and test equipments;
- 3D dynamic and interactive models;
- validated fault libraries.







# **Key Features.**





#### VISTA Simulations







## **VISTA Simulations.**

Visual Interactive Simulation Training Application

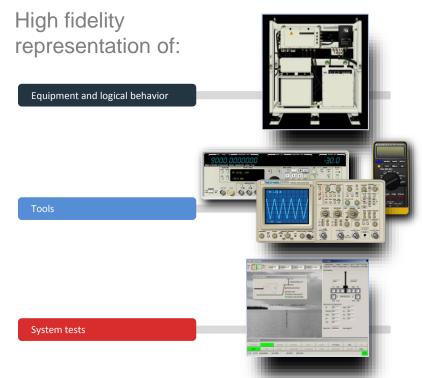


VISTA simulations are PC-based applications.

They effectively train maintainers and operators of complex equipment and minimize or even eliminate the need for access to the actual equipment.

#### **Applications**

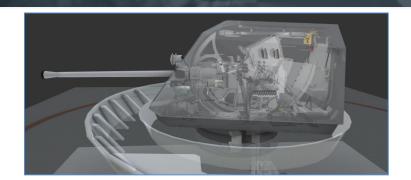
**Dual applications Military and Commercial** 





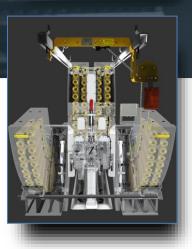
# 3D models allow students to:

- attach tools & measurement devices
- visually inspect components & perform maintenance
- zoom in on cross sections
- enable transparency to see internal mechanical relationships















# **Operational Maintenance Training (OMT).**

In an OMT scenario, the system is depicted as being fully operational.

#### Non-faulted scenario

No malfunction or problem is experienced. The system operates normally under ideal conditions.

#### Power up / down procedures

Student can go through power up  $\!\!\!/$  down procedures. Proper indications can be observed until the system reaches its steady state.

#### Diagnostic tests

Built in tests (BIT) and other diagnostic tests can be performed by the student to confirm that the system is fully operational.

#### Daily maintenance routine

Maintenance routines can be performed for familiarization.







# **Corrective Maintenance Training (CMT).**

In a CMT scenario, the system is experiencing a problem or failure.



#### 01 – Fault recognition phase

The student observes symptoms caused by the fault.

#### 02 – Diagnostic phase

The student performs test points measurements and tests in order to identify the root cause of the issue.

#### 03 – Fault repair

The student repairs the faulted component and ensures the system is back in operational state.







## In-Control.

In-Control is our Classroom Management System (CMS).



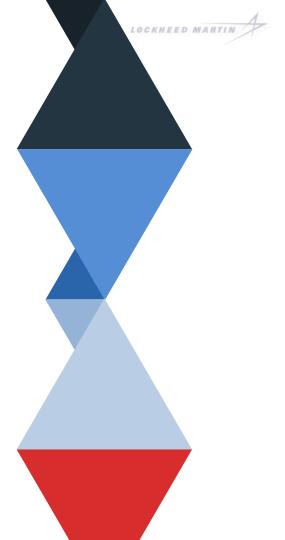
## Instructor station

Allows the instructor to structure the teaching curriculum and evaluate performance through monitoring, recording and playback of student actions.



## Student station

Allows the students to perform the training curriculum and view their personal history.









## In-Control.

As a CMS, In-Control offers multiple features to organize, perform and evaluate the training curriculum.

Class setup

Training is organized in classes, courses, modules and lessons.

Student support

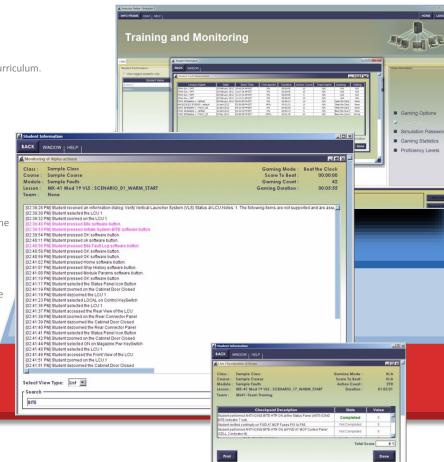
Various capabilities such as remote control allow the instructor to support students during the learning process.

Monitoring, Recording and Playback (MRP) capabilities

MRP allows real-time textual and visual monitoring. Training sessions are recorded for future reference.

Performance evaluation

Actions performed in the simulation fire checkpoints that are used by the instructor to evaluate the performance of each of the students. Pass/Fail criterias can also be defined .











# **Audio Visual Trainer (AVT).**

A fully interactive training environment to enable parts familiarization, skills practice and troubleshooting.

## 01 System theory

Explains how the system operates.

## 02 Parts familiarization

Presents all parts of the system.

# 03 Troubleshooting

Allows the student to troubleshoot problems and to learn how to fix them.

## 04 Procedures

Describes how to perform particular procedures on the system such as removing and replacing parts, taking assemblies apart, etc.

01 – System theory

02 – Parts familiarization

03 - Troubleshooting

04 - Procedures







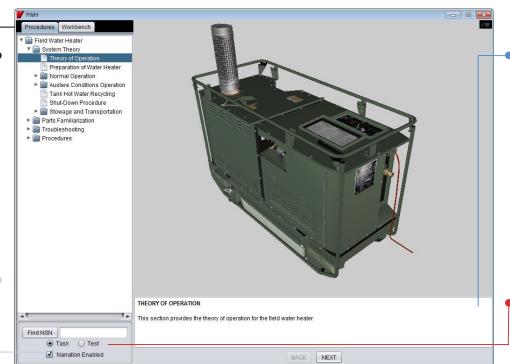
# **Audio Visual Trainer (AVT).**

# Procedures and Workbench tabs

Give access to all the procedures that can be performed, the tools that can be used and the parts inventory.

#### **Narration**

Multilingual narration can be turned on/off.



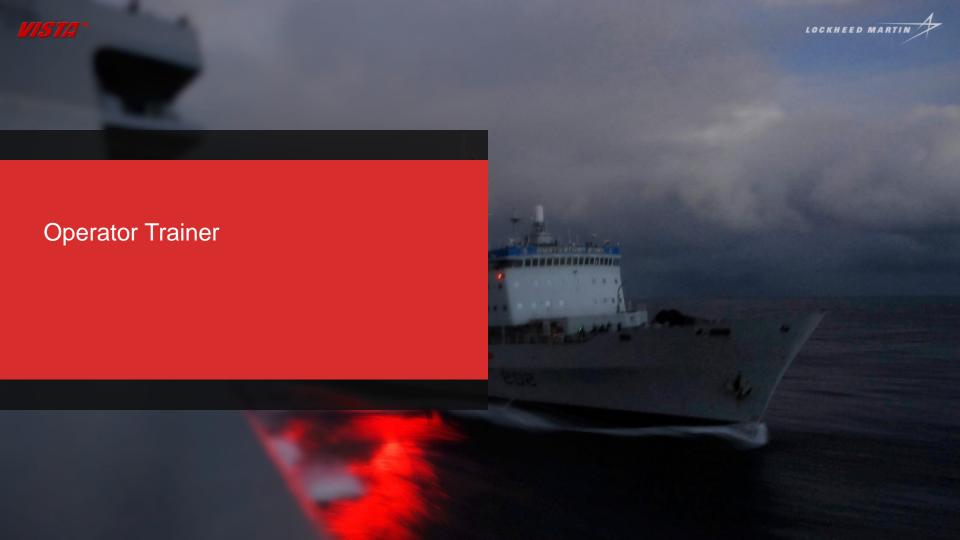
## Instructions

Instructions are provided in Task mode only. They can be performed directly on the equipment using the mouse.

## Task & Test modes

Task mode allows the student to perform any procedure from the table of contents with instructions.

Test mode forces the student to perform procedures without any help. Too many mistakes leads to failure and brings the student back in Task mode.





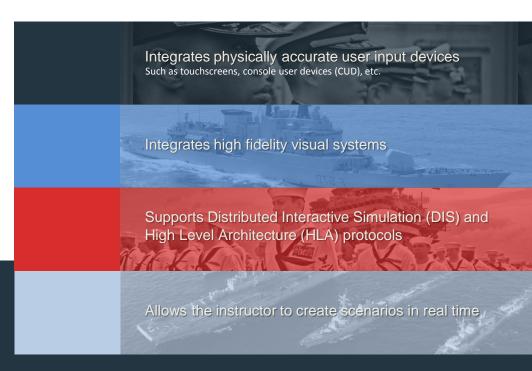




# **Operator Trainer.**

A synthetic training environment that brings the student one step closer to reality.







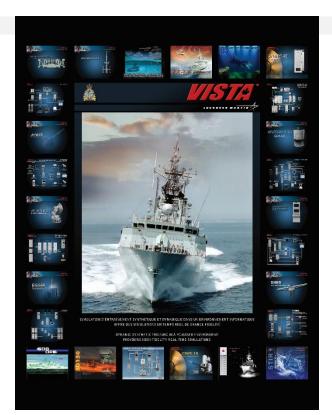






## Portfolio.

VISTA Maintenance Procedure Trainer (MPT) for the Royal Canadian Navy (RCN)



FCS CMS-330 **SMART-S** IFF **NSC RADAR** DLPS SG-180 **ESM** SQS-510 **AHWCS ESSM** SRD-504 **CANTASS** SIRIUS **RAMSES** SSTX **SHRS** CIWS MASS 57mm MKIII KIV-7M 3D Ship Layout

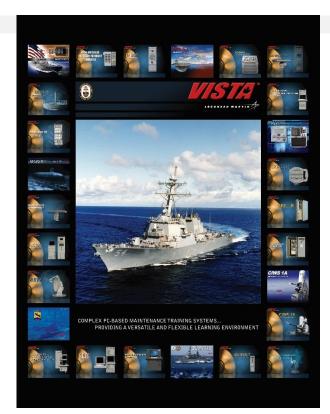






## Portfolio.

VISTA simulations for the United States Navy (USN)



#### **FMS Simulations**

**FODMS** 

CIWS 1A&1B CIWS Ops **AEGIS LAN** ORTS SPY-1F/1D/1D(V) 400Hz ACSSFC UPX-36 MK84 WSN-7 MK99 MK41 UPX-29 IFF CDLMS SQQ-89 RESM VMB OJ-454

> TIS NAVSSI

#### **USN Simulations**

CIWS 1B TACAN SQQ-32 SQS-73 USG2 CETPS MK57 SPS-67 AYK-23 A(V) DPS SPS-49 (V)1/5/8





# Portfolio.

134 simulations produced for customers around the world.

1 in use in Spain

3 in use in Australia

6 in use in the UK

6 in use in Norway

7 in use in Korea

13 in use in Japan

66 in use in the US

32 in use in Canada







# **Our future plans.**

Synthetic World Immersion

Learn the operational environment and gain situational awareness.

