VISTA Introduction

A brief presentation of VISTA products line.
Introducing VISTA.

VISTA stands for Visual Interactive Simulation Training Application.

It is the trade name for our Synthetic Maintenance Trainers.

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
SCORM Compliant

In-Control
In-Control Classroom Management System (CMS)

Audio Visual Trainer

Operator Trainer
VISTA Simulations
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.

<table>
<thead>
<tr>
<th>Non-faulted scenario</th>
<th>Diagnostic tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>No malfunction or problem is experienced. The system operates normally under ideal conditions.</td>
<td>Built-in tests (BIT) and other diagnostic tests can be performed by the student to confirm that the system is fully operational.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Power up / down procedures</th>
<th>Daily maintenance routine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student can go through power up / down procedures. Proper indications can be observed until the system reaches its steady state.</td>
<td>Maintenance routines can be performed for familiarization.</td>
</tr>
</tbody>
</table>
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

Classroom Management System (CMS)
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)
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.
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.

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.

Narration
Multilingual narration can be turned on/off.
Operator Trainer
Operator Trainer.

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

Integrates physically accurate user input devices
Such as touchscreens, console user devices (CUD), etc.

Integrates high fidelity visual systems

Supports Distributed Interactive Simulation (DIS) and High Level Architecture (HLA) protocols

Allows the instructor to create scenarios in real time
Portfolio

Some of our achievements.
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
- RAMES
- SSTX
- SHR5
- CIWS
- MASS
- 57mm MKIII
- KIV-7M
- 3D Ship Layout
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
- SQS-89
- RESM
- VMB
- OJ-454
- TIS
- NAVSSI

USN Simulations

- CIWS 1B
- TACAN
- SQS-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.
CONTACT

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