



Voyager

(Remote Monitoring, Programming, and Datalogging Software)

Sample monitoring made easy



ESCO
SCIENTIFIC

Products and Applications

Life Sciences Laboratory Equipment

Sample Preparation

- Class I Biological Safety Cabinets
- Class II Biological Safety Cabinets
- Class II Type A2 Biological Safety Cabinets
- Class II Type B1 Biological Safety Cabinets
- Class II Type B2 Biological Safety Cabinets
- Class III Biological Safety Cabinets
- Horizontal Laminar Flow Cabinets
- Vertical Laminar Flow Cabinets
- Laboratory Animal Research Workstations
- Laboratory Centrifuges

Sample Cultivation

- CO₂ Incubators, Direct Heat Air-Jacketed
- CO₂ Incubators with Cooling System
- CO₂ Incubators with High Heat Sterilization
- Laboratory Shakers

Amplification and Detection

- Conventional Thermal Cyclers
- Microplate Shakers
- PCR Cabinets

Sample Storage & Sample Protection Solutions

- Laboratory Refrigerators and Freezers
- Ultra-low Temperature Freezers
- Remote Monitoring, Datalogging, and Programming Software
- Wireless Monitoring System

Chemical Research

- Ducted Fume Hoods
- Ductless Fume Hoods
- Filtered Storage Cabinets
- Powder Weighing Balance Enclosure
- Exhaust Blowers
- Fume Hood Airflow Monitor

General Equipment

Laboratory Thermostatic Products

- Forced Convection Laboratory Oven
- Forced Convection Laboratory Incubator
- Natural Convection Laboratory Incubator
- Refrigerated Laboratory Incubator

Medical / IVF Equipment

Innovative Time-Lapse Imaging

- MIRI® TL6 and MIRI® TL12

Embryo Culture

- MIRI® Multiroom Incubator
- MIRI® Humidity Multiroom Incubator
- Mini MIRI® Dry and Humidity Incubator
- CelCulture® CO₂ Incubator
- MIRI® II-12 Multiroom Incubator

Sample Handling

- Esco Multi-Zone ART Workstation
- MIRI® AVT
- Versati™ Tabletop Centrifuge
- Airstream® Laminar Flow Bench

Accurate Quality Control

- MIRI® GA Gas and Temperature Validation Unit

Unique Consumables

- CultureCoin®

Traceability Tool

- MIRI® Evidence

Healthcare

Esco Pharma Products

Airflow Containment

- BioBooth®
- Ceiling Laminar Airflow (CLAF)
- Cytoculture® Cytotoxic Safety Cabinet (CYT)
- Pharmacon™ Downflow Booth
- Esco Garment Storage Cabinet
- Esco Glassware Hoods
- Laminar Flow Horizontal/Vertical Trolley (LFH/VT)
- Laminar Flow Straddle Units
- Evidence Drying Cabinet

Isolation Containment

- Advanced Processing Platform Isolator (APPI)
- Aseptic Containment Isolator (ACTI)
- Blood Cell Labelling Isolator
- Streamline® Closed Restricted Access Barrier System (SLC-RABS)
- Containment Barrier Isolator (CBI)
 - CBI-Unidirectional (CBI-U)
 - CBI-Turbulent (CBI-T)
 - CBI-Class III Biosafety Cabinet (CBI-III)
 - CBI-Hybrid (CBI-H)
- Isoclean® Healthcare Platform Isolator (HPI)
 - HPI-G3-Without Filter Below Work Zone
 - HPI-G3-With Filter Below Work Zone
 - HPI-Inflatable Seal (HPI-IS)
 - HPI - Inflatable Seal - BioVap™ (HPI-IS-BVP)
- General Processing Platform Isolator (GPPI)
 - GPPI-Inflatable Seal (GPPI-IS)
 - GPPI-Static Seal (GPPI-SS)
- Streamline® Compounding Isolator (SCI)
- Streamline® Containment Isolator - Class III (SCI-III)
- Technetium Dispensing Isolator
- Turbulent Flow Aseptic Isolator™ (TFAI™)
- Weighing and Dispensing Containment Isolator (WDCI)

Cross Contamination Facility Integrated Barrier

- BioPass™ Pass Through
- Cleanroom Air Showers
- Dynamic Pass Boxes/ Dynamic Floor Laminar Hatches
- Infinity® Air Shower Pass Box
- Esco Sputum Booth
- Infinity® Pass Boxes
- Infinity® Cleanroom Transfer Hatch
- Soft Capsule® Soft Wall Cleanroom

Ventilation Containment

- Ventilated Balance Enclosure

Esco VacxiCell Products

Tide Motion Bioreactors

- CelXrocker™ (CXR)
- MiniTide®
- CelCradle™ (CC)
- CelCradle X® (CCX)
- TideXcell® (TXL)

Stirred Tank Bioreactors

- BioXcell®
- StirCradle™
- StirCradle™ PRO
- VXL™ Hybrid

Harvesting System

- CelShaker™
- CelCradle X® Semi-automated Harvester System (CCX-SAH)
- TideXcell® Harvester System (TXLHS)

Cell Culture Monitoring, Media and Consumables

- Super Plus™
- Plus™ Vero
- Plus™ MDCK
- Plus™ MDCK II
- BioNOC™ II macrocarriers
- GlucCell™ Glucose Monitoring System
- CVD Kit

Filling Line Equipment

- Traditional Filling Line
- cRABS (Closed Restricted Access Barrier System)
- oRABS (Open Restricted Access Barrier System)

Integrated Solutions

- Cell Processing Isolator (CPI)
- Cell Processing Center

Esco TaPestle Rx Products and Services

Pharmacy Automation and Compounding Supply

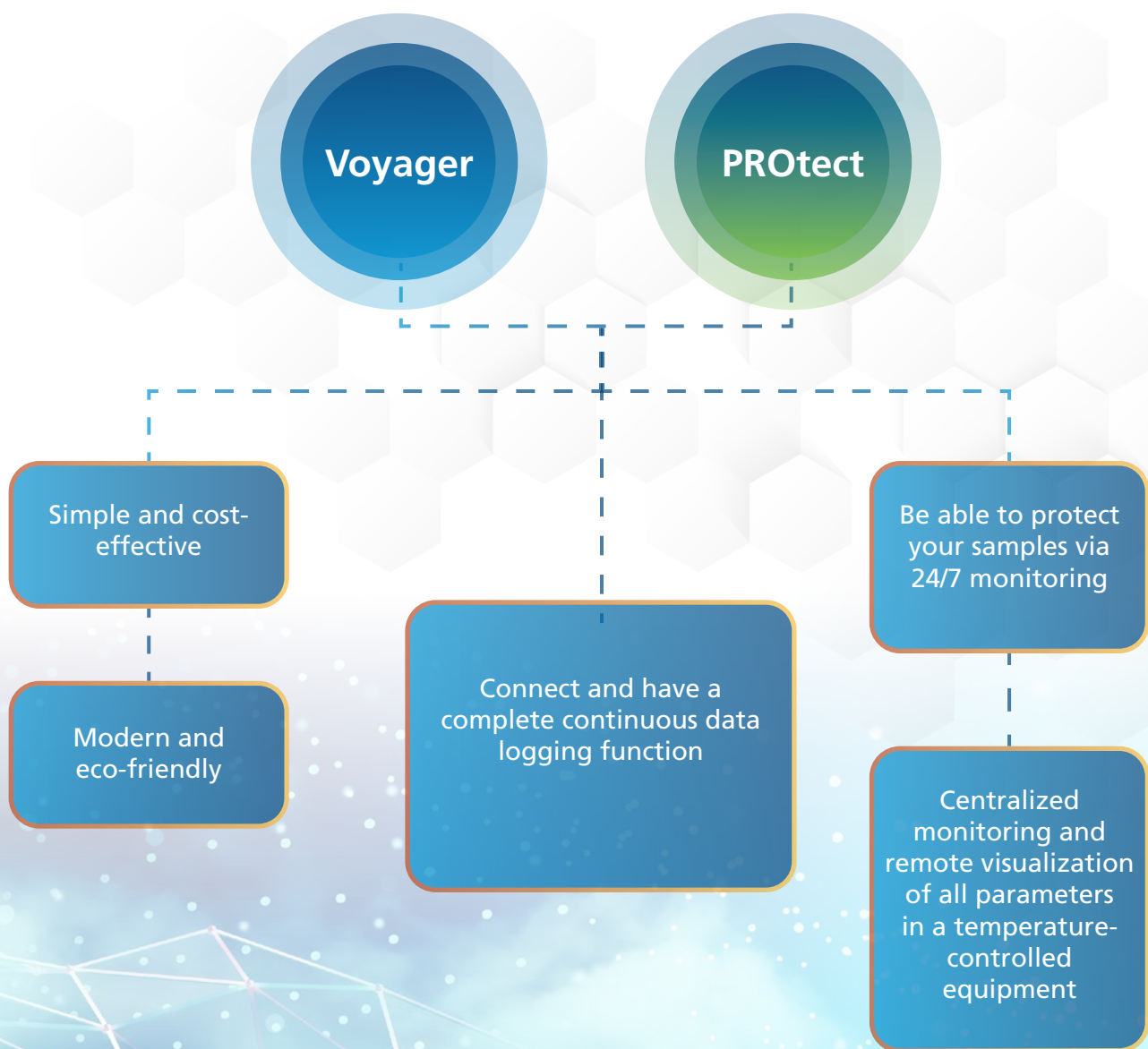
- Compounding Pharmacy Isolators (SCI, HPI, CBI, GPPI)
- Safety Cabinets and Enclosures (CYT, Class II BSC, VBE, LFC)
- Filling Line Isolators/RABS

Radiopharmacy Equipment

- Blood Cell Labeling Isolator
- Cytoculture® Lead-Shielded Class II Biosafety Cabinet
- Frontier® Radioisotope™ Fume Hood
- GMP-compliant Radioisotope Dispensing Isolator
- Radiopharmacy Hood (Lead Shielded Biological Safety Cabinet)
- Technetium Dispensing Isolator

**Every precaution has to be taken to protect a sample's integrity.
Be assured with the guaranteed quality of performance and service Esco Lifesciences can provide.**

Esco's Sample Protection and Remote Monitoring Solutions provide an extensive solution to prevent loss and spoilage of unique samples and products.



Voyager

Remote Monitoring, Programming, and Datalogging Software

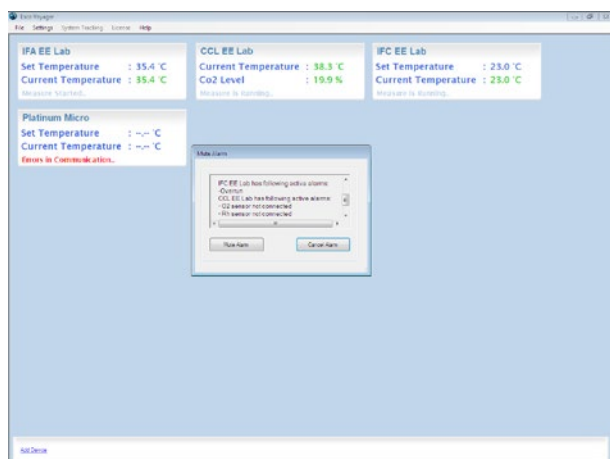
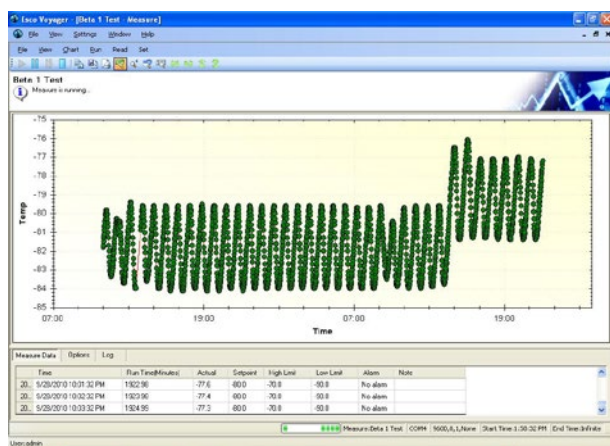
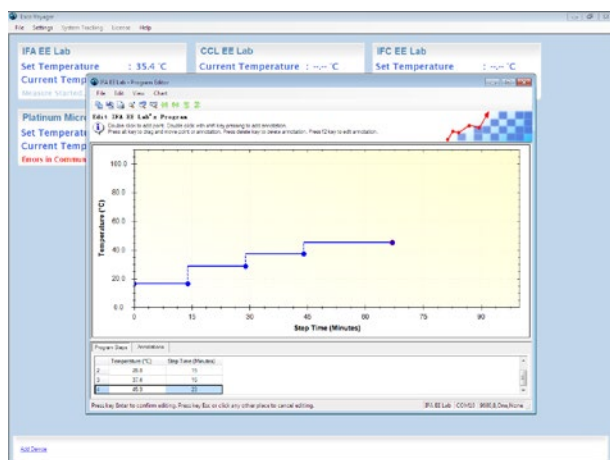
Voyager is a PC-based software package developed for the remote monitoring, datalogging, and programming/device configuration of Esco controlled environment laboratory equipment. The equipment has the capability to push updates to Esco equipment connected to software. In any event of equipment failure, the software is able to send out remote alarm notification through e-mail or SMS with a modem configured. It is also compliant to 21 CFR Part 11 standard for traceability.



Compatible Esco Equipment (Clockwise from top):

Lexicon® II Ultra-low Temperature Freezers (UUS-A/B)
Isotherm® Laboratory Incubators (INA, IFA, IFC)
Isotherm® Forced Convection Laboratory Oven (OFA)
CO₂ Incubators (CCL, CLM)

KEY FEATURES



Remote Monitoring

- Automatic, continuous monitoring of device parameters (Temperature, CO₂, RH, etc.) to validate instrument performance and assay criteria
- Automatic e-mailing of log data at user-defined intervals

Remote Programming and Equipment Configuration

- Development of programs using a graphical interface, for subsequent download to device memory
- Voyager software can download user programs to multiple Escro instruments easily insuring consistent setup on multiple devices
- Configure devices remotely (measurement interval, temperature set point, low temperature alarm point and high temperature alarm point)
- This window also allows the user to choose the method of when and which data can be viewed (spreadsheet, email, web page)

Datalogging and Graph Functions

- Easy viewing and graphing multiple device parameters remotely in real-time
- Saving and exporting log data in various formats from multiple instruments
- Download of data logs from equipment memory (only for devices with built-in data logging memory, i.e. CO₂ Incubators)

Alarm

- Alarm is activated if a user-defined parameter limit is exceeded
- Automatic email alerts
- Documentation of all alarms with time and date stamp

Voyager interfaces with individual Esco equipment over various available communication ports with the aid of EscoBUS communications protocol.

Compatible Equipment

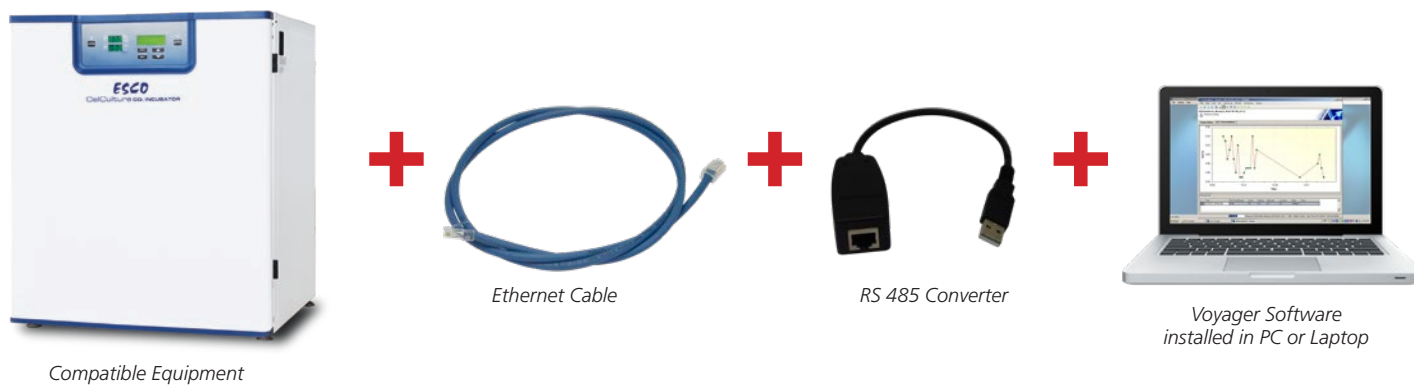
- Lexicon® II – Ultra-Low Temperature Freezer (Silver and Gold)
- CelCulture® – CO₂ Incubator (CCL)
- CelMate® – CO₂ Incubator (CLM)
- Isotherm® – Forced Convection Laboratory Oven (OFA)
- Isotherm® – Natural Convection Laboratory Incubator (INA)
- Isotherm® – Forced Convection Laboratory Incubator (IFA)
- Isotherm® – Refrigerated Incubator (IFC)



Voyager

Remote Monitoring, Programming, and Datalogging Software

Installation Requirements



- Industrial strength, industry-standard RS485
- EscoBUS communications protocol
- RJ45 ports at rear of each piece of equipment at the rear
- RJ45 to USB interface, plugs into PC USB port
- RJ45 to RS232 interface, plugs into PC DB9/Serial Port
- Each device on the network is assigned with a unique EscoBUS address
- Up to 16 devices of CO₂ Incubator may be daisy-chained to a single PC
- Maximum of 16 combined devices may be daisy-chained to a single PC
- Up to 16 CO₂ incubators can be daisy-chained to a single PC. Maximum distance limits: up to 2 meters between equipment, and up to 10 meters from the PC to the final equipment

Minimum System Requirements

Operation system: 32-bit or 64-bit Windows 2000, 2003 Server, XP, 7 Pro, 10 Pro, and 11 Pro

Memory: 4 GB

Hard disk space: 10 GB

Interface : USB/RS232/RS485

Prerequisite Software: .NET framework 2.0 (included)

.NET framework 3.1 (included)

.NET framework 3.5 (included)

.NET framework 4.0 (included)

Windows Installer 3.1 (included)

**Internet connection required for email alert feature.*

ORDERING INFORMATION

Software	Item Code	Description
Voyager	5250001	Voyager Software Kit (2 years subscription) The kit includes: software, license code, user manual, ethernet cable, and RS 485 converter.

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