



ESCORT

# HIGH TEMPERATURE / FOOD PASTEURIZATION LOGGER

USER MANUAL



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## Brief Overview

The Junior High Temperature range of data loggers were developed for various industries and have the ability to withstand high temperature and pressure environments. The high temperature range of data logger's are well suited to applications where a high degree of sterilization is required.

**Junior High Temperature** data loggers are well suited to a variety of industries and applications including:

- Raw materials storage
- Culture room & laboratories
- Medical & Pharmaceuticals
- Catering
- Food & Beverage industries

## 1. GETTING STARTED

Two things you must do first:

1. Install Console Pro Software
2. Install USB Drivers

## 2. INSTALLING CONSOLE PRO SOFTWARE

Install the free Console Pro Software using either

1. The Console Pro Software CD or
2. Through the CRYOPAK website [www.cryopak.com](http://www.cryopak.com/files/1613/7599/1145/econsole_21207pro.zip)  
[http://www.cryopak.com/files/1613/7599/1145/econsole\\_21207pro.zip](http://www.cryopak.com/files/1613/7599/1145/econsole_21207pro.zip)
3. See instructions below for Website Installation

The screenshot shows the Cryopak website's 'Data Loggers & Monitoring' page. The header includes a navigation bar with links like 'Product Search', 'Keyword Search', 'Contact', 'Login', 'Sign Up', 'Blog', and a language selector for 'English (US)'. The main navigation menu lists categories such as 'ABOUT', 'COLD CHAIN PACKAGING', 'DATA LOGGERS & MONITORING', 'TESTING CENTER', 'REGULATORY COMPLIANCE', 'INDUSTRIES', and 'RESOURCES'. The page content features a sidebar with links to 'Data Loggers', 'Temperature Indicators', 'Real Time Monitoring', 'Distributors', and 'Return and Refurbish'. The main content area is titled 'Data Loggers and Monitoring Products' and includes the Cryopak logo and a paragraph stating: 'The Cryopak Verification Technologies business unit is committed to the design and manufacture of the most technically advanced, reliable, self powered data loggers in the world. We employ the latest technology as it becomes available and have a strong track record for introducing new products to meet customer needs. We pride ourselves on being a market driven company providing a high level of service to both distributors and customers alike.' Below this, another paragraph reads: 'Dedicated to provide quality management solutions that offer an extensive range of temperature and humidity data loggers. Cryopak data loggers are principally used for Cold Chain Monitoring and Cold Chain Visibility to ensure Food, Medical and Pharmaceutical products are stored and transported in correct temperature conditions. Temperature monitoring and humidity data loggers are extensively used for environmental and heating and ventilation monitoring for building management plus energy saving applications.' A prominent button at the bottom left of the content area says 'CLICK HERE TO REQUEST A QUOTE'.

Product Search | Keyword Search
Contact | Login | Sign Up | Blog | English (US)

COLD CHAIN PACKAGING | VERIFICATION SOLUTIONS | **Cryopak** a TCP Company | CRYOPAK CANADA | CRYOPAK SUSTAINABILITY

ABOUT | COLD CHAIN PACKAGING | DATA LOGGERS & MONITORING | TESTING CENTER | REGULATORY COMPLIANCE | INDUSTRIES | RESOURCES

/ Home / Data Loggers & Monitoring / Software Downloads

## Data Logger Software

Cryopak currently offers two different software packages. Console Plus is the most recent version which was released in late 2012 and has improved features making it easier to use and more accessible.

- Internet-based software to download and share temperature/RH data on a secure, third-party web site (cloud) with designated partners, leading to improved relationships and collaboration.
- Lets you manage, sort, and query large amounts of data.
- Easy sharing of partner access – any time, any where.
- Enter shipment notes, easy email of reports and graphs.
- Easy programming and downloading of Cryopak data loggers
- Automatic updates each time you login.

Console Pro is the predecessor model of software that still operates our legacy Escort products including the iLog.

### Console Plus

Download this software to run the following products/ranges:

- iMINI Temperature (MX Series)
- iMINI Temperature & Humidity (MX Series)
- iMINI USB PDF (MS Series)

\*This is a free download click the download button to download the file and then unzip and install.

Download  
Free Software

### Console Pro

Download this software to run the following products/ranges:

- Intelligent Mini (MI Range)
- iMiniPlus (MP Range)
- iMiniPlus PDF (MU Range)
- iLog (EI Range)
- Precision (EX & EH Range)
- Junior (EJ Range)
- Wireless REDi
- Wireless Intelligent Mini (EA, EI, EJ Range)
- Beer Logger (HJ-FP-U Range)
- High Temp Junior (HJ & HT Range)

\*This is a free download click the download button to download the file and then unzip and install.

Download  
Free Software

- Once you have downloaded and installed the Console Pro Software, move on to the second phase of installation by installing the USB Drivers.

For a more in depth guide to Console Pro Installation, please refer to the user manual provided on the website: [www.cryopak.com](http://www.cryopak.com)

### 3. INSTALLING USB DRIVERS

- You must install the appropriate drivers to work with the Console Pro Software. Once you do this, you are then able to use the logger with the USB Interface & Console Pro Software. You can download from using the CD provided with the USB Interface, or the website: [www.cryopak.com](http://www.cryopak.com)

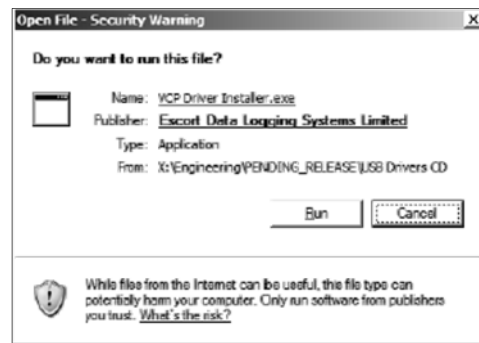
<http://www.cryopak.com/en/verification-products/software-download/usb-driver-windows/>

Select driver based on your windows operating system 32 bit or 64 bit

- Log into your PC as an administrator to install drivers and to avoid the box below.



- Insert the driver CD into CD-ROM drive
- Click Auto Install
- If security warning opens, click 'Run'



Click 'Next'



Files will upload

- Click 'Finish'
- If one or both drivers were not successfully installed, you refer to the manual from the CD on how to add the driver via the 'New Hardware Wizard' route.
- As shown in box below

Now that the Console Pro Software  
&  
USB Driver(s) are installed, you can start  
programming your High Temperature logger



## 4. PROGRAMMING THE HIGH TEMPERATURE LOGGER USING THE USB INTERFACE

Now that you have downloaded the Console Pro Software via the Cryopak website, you can start to program the High Temperature Logger. This is what you need...



High Temperature  
Logger



Universal USB or Serial  
Interface



Laptop or Desktop PC with  
Windows OS for program /  
download

Place the High Temperature Logger onto the Universal USB or serial interface and plug the USB or serial cord into the PC to program the Logger. You will repeat this process again when retrieving data from the logger after obtaining the programmed information or readings.

**Caution!** When using the Universal Interface, it is vital that the logger is placed the correct way around. If a logger is placed in the incorrect direction it will draw a lot of current from the battery, and the batteries power will drain within 24 hours. The correct way to insert loggers into the Universal Interface is indicated by an icon on the right hand side of the interface bowl. Users should ensure that the sensor points in the same direction as the line on the icon (see image below).



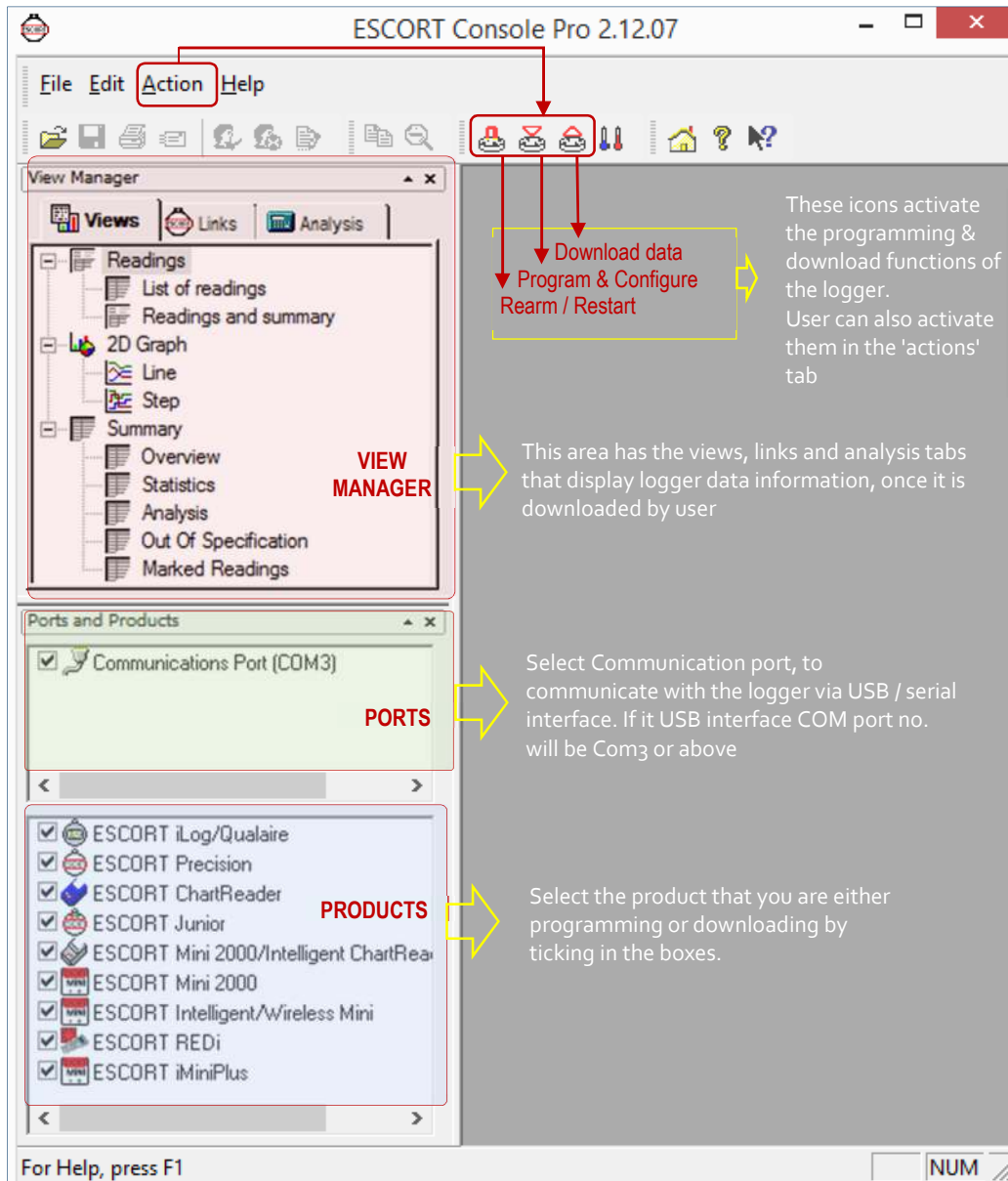
Placing the High Temperature Logger onto the Universal USB interface

## Once you are connected in Escort Console Pro Programming options will allow you to...

- Choose from a variety of options that include sampling interval(s).
- Specify the number of samples to take and for what period of time needed.
- Set a time delay to activate the logger e.g. seconds, minutes etc.
- Program the activation for a later date - as synchronized by the computer time & date or by you manually – which may apply to different time zoning if travelling.
- Magnetic swipe – to activate logger manually if unsure of exact times you would like to start activation. Through the programming, you can select the time delay for this function.
- Select danger zone range including an alarm beep feature to notify user of temperatures exceeding the above or below zones specified.
- Set the Increment which allows you to group readings

**This is what it should look like**





## 5. THE BASIC STEPS FOR PROGRAMMING

- Enter your login/password details (use same as initial registration)
- Now you're connected, Console Pro is open and you're ready to program the logger.
- Next step is to select a com port by ticking a box (it may already be ticked) through this process if program fails to open logger, change the com port by ticking the next box down until you are



able to connect. You may have more than two com ports, therefore move down until you have a successful result.

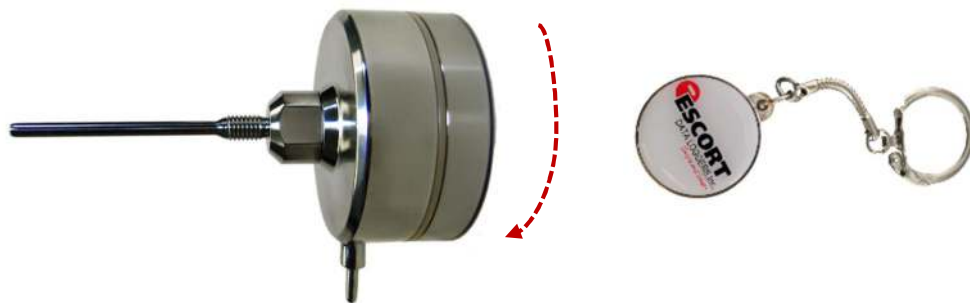
- Below that, select the product you are programming – in this case you are using a High temperature logger (Junior version). You will notice that there is no High Temperature logger product, so tick the **Escort Junior** as it belongs to this family of Loggers.
- Select the program & configure icon to connect to the logger for programming
- Follow the instructions from there on, clicking 'NEXT' to follow through each tab to check and make changes appropriate to the monitoring environment specifications.
- Once you have gone through the tabs, click 'PROGRAM' to program the logger.

**Once the programming is completed, put the logger to work!**

**NOTE:** There is a cohesive and advanced manual that outlines all the features in the Console Pro Software. For further information, please refer to the Console Pro user manual provided free for downloading via the website [www.cryopak.com](http://www.cryopak.com)

## 6. PLACING THE LOGGER INTO THE ENVIRONMENT FOR MONITORING

- Ensure that the environment of the 'placed' logger within the specifications of the product
- Be sure that the environment temperatures will in no way exceed the loggers temperature limits
- If unsure please refer to the specification sheet provided on the last page of this manual or check the details on the website: [www.cryopak.com](http://www.cryopak.com)
- Allow the High Temperature logger specified time (as programmed by the user) to record temperature information (as required by the user).
- To activate the logger using a magnet swipe, swipe the key-ring magnet over the flat end of the logger. Example below.



## 7. REMOVING THE HIGH TEMPERATURE LOGGER FROM THE ENVIRONMENT

- When the logger is removed from the environment under test, it may be very hot and can be cooled down by placing it under running water.
- Do not at any time attempt to accelerate the cooling process by exposing the High Temperature logger to extreme cold (e.g. ice). A rapid change in temperature can result in damage to the loggers electronics.
- Once the logger is at a temperature that allows it to be held comfortably by hand, it can be placed in the interface and read out by the software.

## 8. DOWNLOADING DATA FROM HIGH TEMPERATURE LOGGER USING THE ESCORT USB INTERFACE



High Temperature  
Logger



Universal Interface with  
USB output



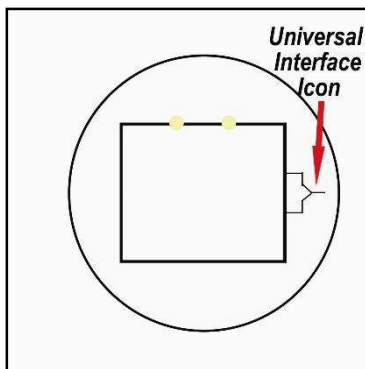
Laptop or Desktop PC  
For Downloading

Same process as programming but...

The process is to now retrieve the data logged

Place the High Temperature Logger to the Universal USB interface and plug the USB cord into the PC again to download the information from the Logger.

**Caution / Reminder:** When using the Universal Interface, it is vital that the logger is placed the correct way around. If a logger is placed in the incorrect direction it will draw a lot of current from the battery, and the batteries power will drain within 24 hours. The correct way to insert loggers into the Universal Interface is indicated by an icon on the right-hand side of the interface bowl. Users should ensure that the sensor points in the same direction as the line on the icon (see image below).



### Placing the High Temperature Logger onto the Universal USB adapter

Now that you are all placed and plugged in again, Launch Console Pro Software to begin retrieving the data.

**ESCORT Console Pro 2.12.07**

**File Edit Action Help**

**View Manager**

- Views
  - Readings
    - List of readings
    - Readings and summary
  - 2D Graph
    - Line
    - Step
  - Summary
    - Overview
    - Statistics
    - Analysis
    - Out Of Specification
    - Marked Readings

**VIEW MANAGER**

**Ports and Products**

**PORTS**

- ☒ Communications Port (COM3)

**PRODUCTS**

- ☒ ESCORT iLog/Qualaire
- ☒ ESCORT Precision
- ☒ ESCORT ChartReader
- ☒ ESCORT Junior
- ☒ ESCORT Mini 2000/Intelligent ChartReader
- ☒ ESCORT Mini 2000
- ☒ ESCORT Intelligent/Wireless Mini
- ☒ ESCORT REDi
- ☒ ESCORT iMiniPlus

**Annotations:**

- These icons activate the programming & download functions of the logger. User can also activate them in the 'actions' tab
  - Download data
  - Program & Configure
  - Rearm / Restart
- This area has the views, links and analysis tabs that display logger data information, once it is downloaded by user
- Select Communication port, to communicate with the logger via USB / serial interface. If it USB interface COM port no. will be Com3 or above
- Select the product that you are either programming or downloading by ticking in the boxes.

## 9. BASIC STEPS FOR DOWNLOADING

- Enter your login/password details from registration – same as initial programming step.
- Now you're connected, console pro is open and you're ready to download the logger.
- Next step is to select a comport by ticking a box (it may already be ticked) through this process if you fail to download information, change the com port by ticking the next box down.
- Below that, select the product you are programming – in this case you are using a High temperature logger (Junior version). You will notice that there is no High Temperature logger product, so tick the **Escort Junior** as it belongs to this family of Loggers.
- Select the Download icon to connect to the logger for downloading
- Follow the instructions from there on, clicking 'Download' and next buttons to finish.
- Make sure to save your readings to a data logging folder. You will be prompted by the software to do so.
- Now that you have saved your readings, they should automatically be open for you to view. To open a new format e.g. graph & line views, and to also compare readings, use the View Manager box feature to navigate and synchronize readings.

**NOTE:** There is a cohesive & advanced manual that outlines all the features in the Console Pro Software. For further information, please refer to the Console Pro user manual provided free for downloading via the website [www.cryopak.com](http://www.cryopak.com)

## Important information regarding the downloading procedure

**Note:** Loggers that have internal electronics exposed to temperatures greater than +125°C may be unreliable, we strongly recommend that the logger is returned for servicing.

## 10. PROBE ATTACHMENTS

The High Temperature Loggers external probes come in a variety of lengths.



SS Sharp End	M6 Rounded End	CAP – No Axial probe
Standard length – 25mm	Standard axial probe length – 60mm	
Standard Diameter – 4.5mm	Standard Diameter – 4.5mm	
	Radial probe length -15mm	

**Note:** Additional probe lengths are available for purchase ranging between 25mm to 250mm



## 11. SPECIFICATIONS FOR HIGH TEMPERATURE LOGGER (JUNIOR)

### Summary

The High Temp Metal Case Loggers are supplied in a small stainless steel case featuring the possibility of exchanging the stub probe and sensor to allow for different lengths.

### Specifications of Standard Configuration

Temperature range	Measuring 0 to +125°C, accuracy +/- 0.3°C, average resolution 0.5°C
IP Rating	IP68 - Pressure tested to 40 meters (5 bar)
Data recovery	Via PC interface plus interface and Software
Size	Diameter 49mm, height 28mm excluding probe
Stub probe	25mm long (standard) – 200mm (extensions every 10mm)
Operating temperature	0 to 125°C
Weight	250 grams
Temperature response	T90 of 4 min. in moving air
Time and date	Real time clock, accuracy better than 40 sec. per month at ambient
Sampling frequency	5 to 59 seconds or 1 to 255 minutes
Power source	User replaceable high temperature lithium battery
Typical battery life	1 to 2 years (dependent on frequency of PC communication)
Traceability	Can be provided to ISO 9002
Case material	316 stainless steel and high temperature peak.
Software	Console Pro for Windows® XP or later (Will operate on 98 and above), Also tested with windows 10. Available for free on <a href="http://www.cryopak.com">www.cryopak.com</a>
Recorder start up	Programmed time and date or magnet swipe
Warranty	24 months (excluding batteries and misuse)

### Accessories

Item	Product Code	Description
Interface	EA-INT-USB	USB Cradle interface to connect logger to PC
	EA-INT-U	Serial Cradle interface to connect logger to PC
Start Magnet	JA-KEY	Start magnet in form of key ring

### Options

Item	Product Code	Description
Memory 16 or 40k	HJ-IN-V(C)-40-CI HJ-FP-V(C)-40-CI(CU)	Memory of 40,000 samples
Short Stub Probe	HJ-IN-V(C)-16-CI	Stub probe 25mm
M6 Probe	HJ-FP-V(C)-16-CI	Standard probe 60mm
U Shaped Probe	HJ-FP-V(C)-16-CU	U Shaped Probe

#### DISCLAIMER:

Cryopak Verification Technologies, Inc. reserve the right to change the specifications without notice.

## 12. CONTACT DETAILS

If you require further information regarding Cryopak Verification Technologies products, please contact us at:

<b>USA</b>	<p>Mailing Address: PO Box 309, Buchanan, VA 24066</p> <p>Office: 120 Parkway Drive, Buchanan, VA 24066</p> <p>Phone: +1-540-254-1433</p> <p>Orders: +1-732-346-9200 Ext.150</p> <p>Fax: +1-540-254-2433</p> <p>Email: <a href="mailto:techsupport@cryopak.com">techsupport@cryopak.com</a></p>
<b>CANADA</b>	<p>Mailing Address: 11000 Parkway Blvd. Anjou, QC, Canada, H1J 1R6, Canada</p> <p>Phone: +1-514-324-4720</p> <p>Cell: +1-514-207-1691</p> <p>Fax: +1-514-324-9623</p> <p>Email: <a href="mailto:support@cryopak.com">support@cryopak.com</a> <a href="mailto:d.delia@cryopak.com">d.delia@cryopak.com</a></p>
<b>FRANCE</b>	<p>Mailing Address: 1 Rue Berthelot, Z.I. La Maine 76150 Maromme, France</p> <p>Phone: +33 (0)2 32 82 59 65</p> <p>Email: <a href="mailto:ordersEU@cryopak.com">ordersEU@cryopak.com</a></p>

You can find additional information regarding all of our products on our website:

[www.cryopak.com](http://www.cryopak.com)

