

# COMMANDER

## USER GUIDE

AppliedCytometry  
Pioneering Software Simplicity



# Commander Guide

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## **1 Welcome to Commander Software**

Commander is a software utility that helps automate batch analysis of data collected from multiple microtiter plates.

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## **2 Contact Details**

To speak to one of our team email [customersupport@appliedcytometry.com](mailto:customersupport@appliedcytometry.com) or telephone +44 (0)1909 547210

Or contact us by post at the following address:

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Visit us online at [www.appliedcytometry.com](http://www.appliedcytometry.com)

## **3 License Mechanism**

A license control mechanism, in the form of a DESkey device is used for the operation of the Commander software.

## 4 Installation of Commander Software

In order to run the commander software, you need to first follow steps below

- Copy program files
- Installation of Pre-requisites
- Installation of DESkey Drivers

### 4.1 Installation of Commander Software

On the USB media drive contained in the USB Media Kit is a folder called

**\commander**

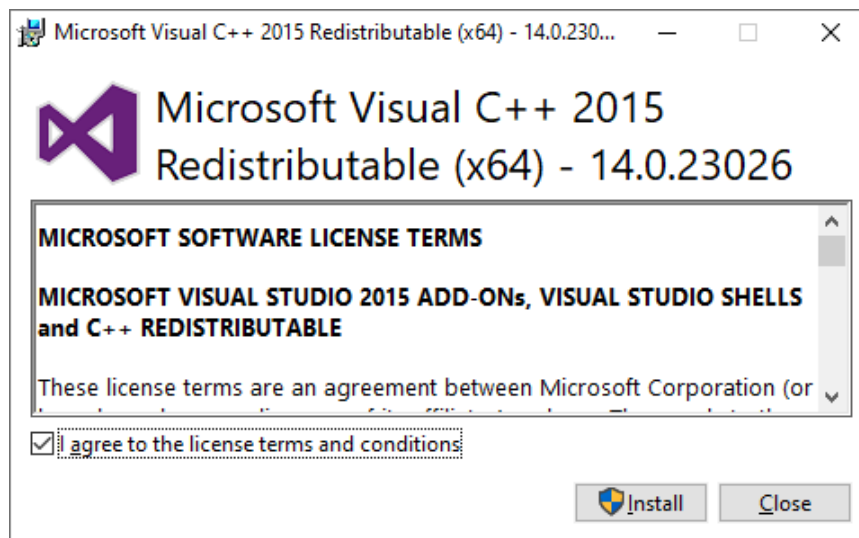
Simply copy this folder and its contents to the computer, this can be the on to the desktop, C:\ drive or any other suitable location.

This folder contains the Commander program and any required additional components.

### 4.2 Installation of Pre-Requisites

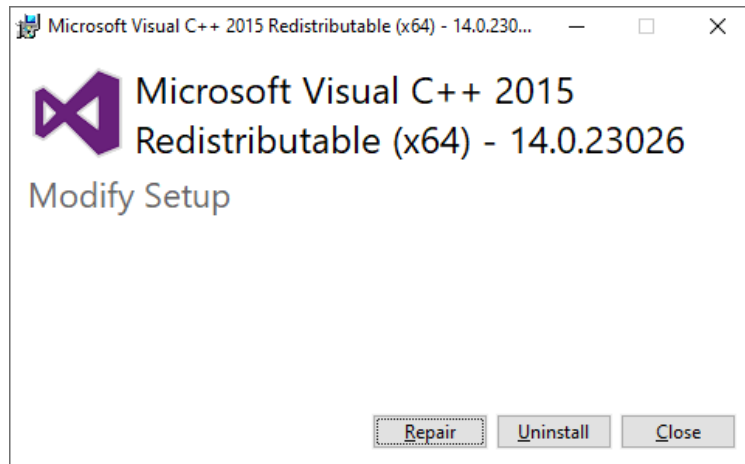
Go to the **\vc** folder of the USB media drive and run the **vc2015\_redist.x64.exe**

If not already installed the following dialog is displayed



Check the 'I agree to the license terms and conditions' checkbox then select the Install button; you will need administrative privileges in order to install this program successfully.

If the Modify Setup dialog is displayed, the drivers are already installed and you can cancel installation of the pre-requisites.



### 4.3 Installation of DESKey Drivers

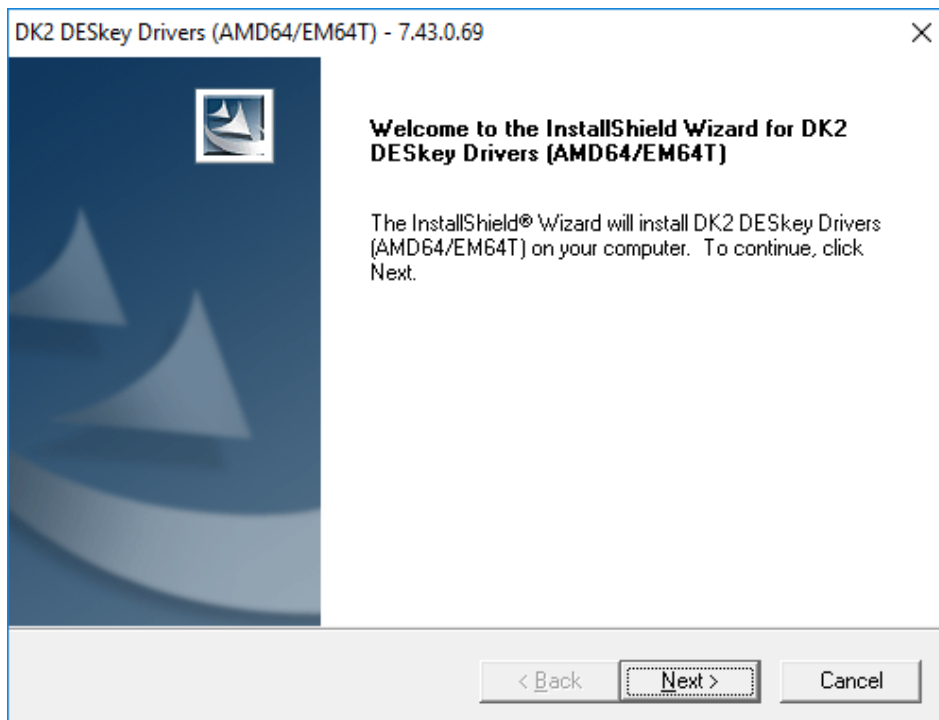
If the package you have purchased includes a DESKey USB device, you need to install the appropriate drivers before the device can be used.

#### 4.3.1 Installation

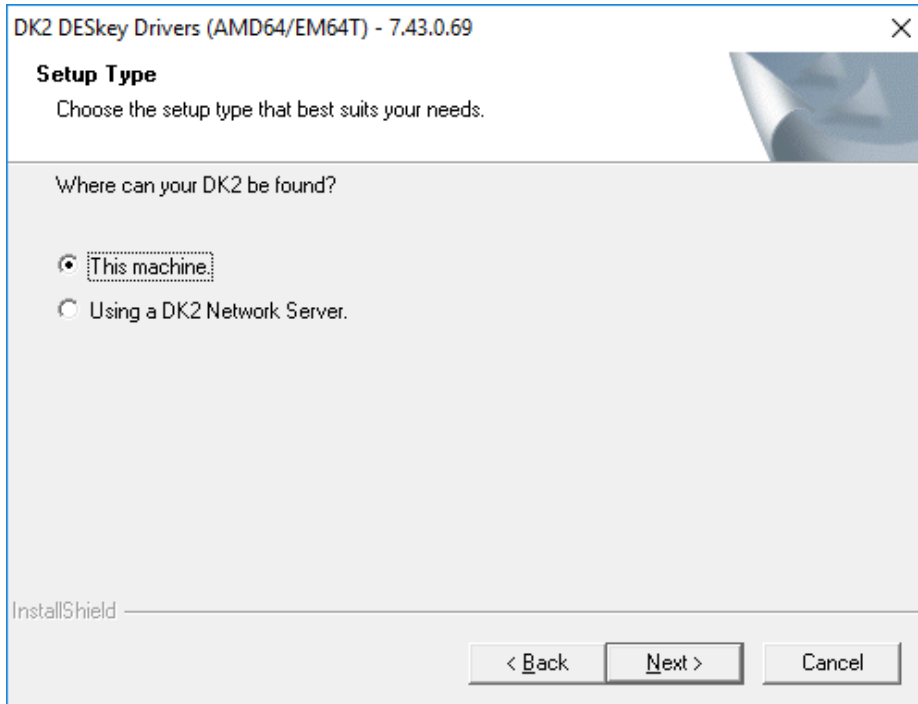
To install the DESKey drivers, open the **DESKey** folder of the USB media drive

Run the **Setup.exe**

The first screen of the **DK2 DESKey Drivers Wizard** is displayed, as illustrated below:



Click the **Next** button to display the following dialog:

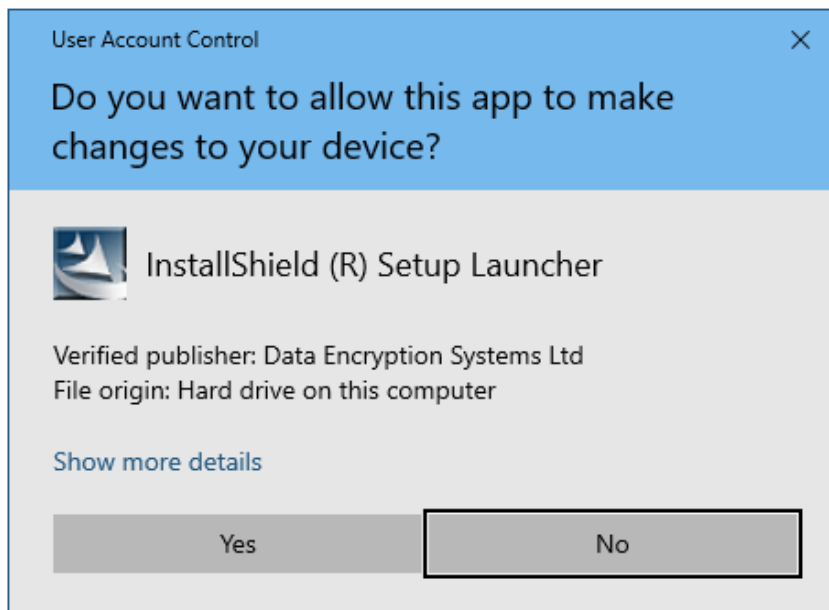


Select **This machine** radio button.

Click the **Next** button to initiate the installation process. The following dialog is displayed to indicate the installation is in progress:

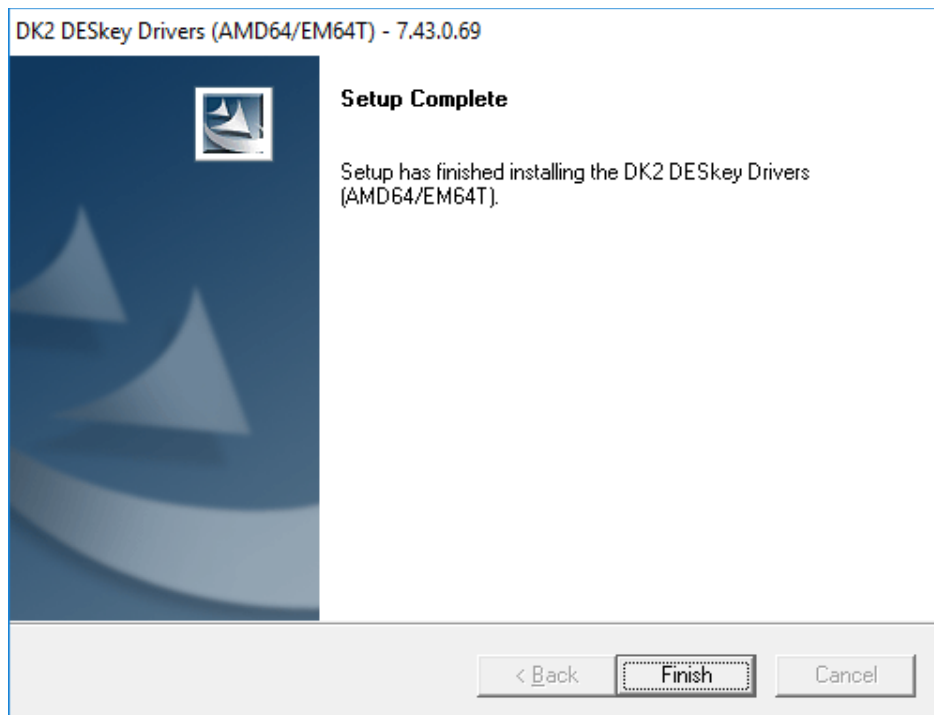


If you use a Windows 10 system, a **Windows Security** dialog is displayed:



Select **Yes** to proceed with the installation or **No** to cancel installation of the DESkey drivers.

When the installation is complete the following dialog is displayed:



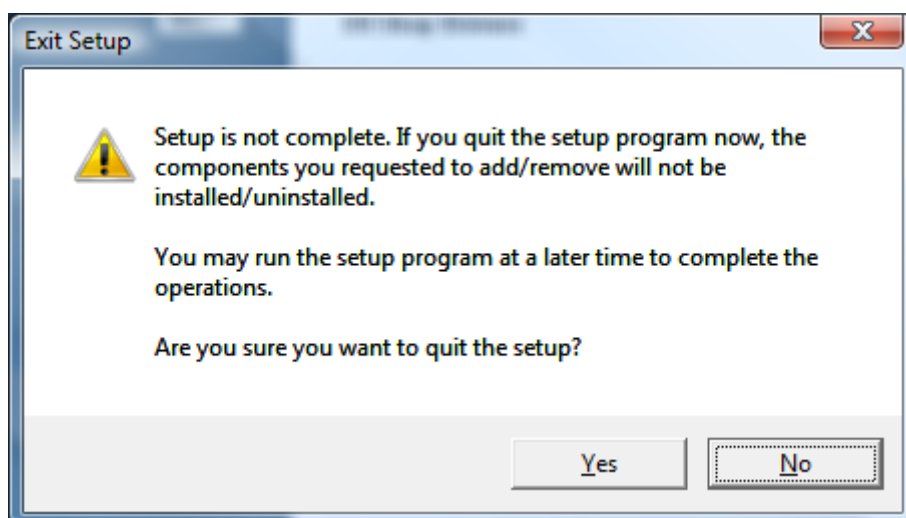
The DESKey Driver is now installed. You may have to restart Windows on your computer before you can start using the Commander software.

Click the **Finish** button to complete the installation process.

Insert the DESKey USB device once the installation, and any required reboot, has occurred.

### 4.3.2 Cancel the DESkey Installation

If you wish to exit the DESkey installation, click the **Cancel** button displayed on the relevant dialogs. The **Exit Setup** dialog is displayed, as illustrated below:



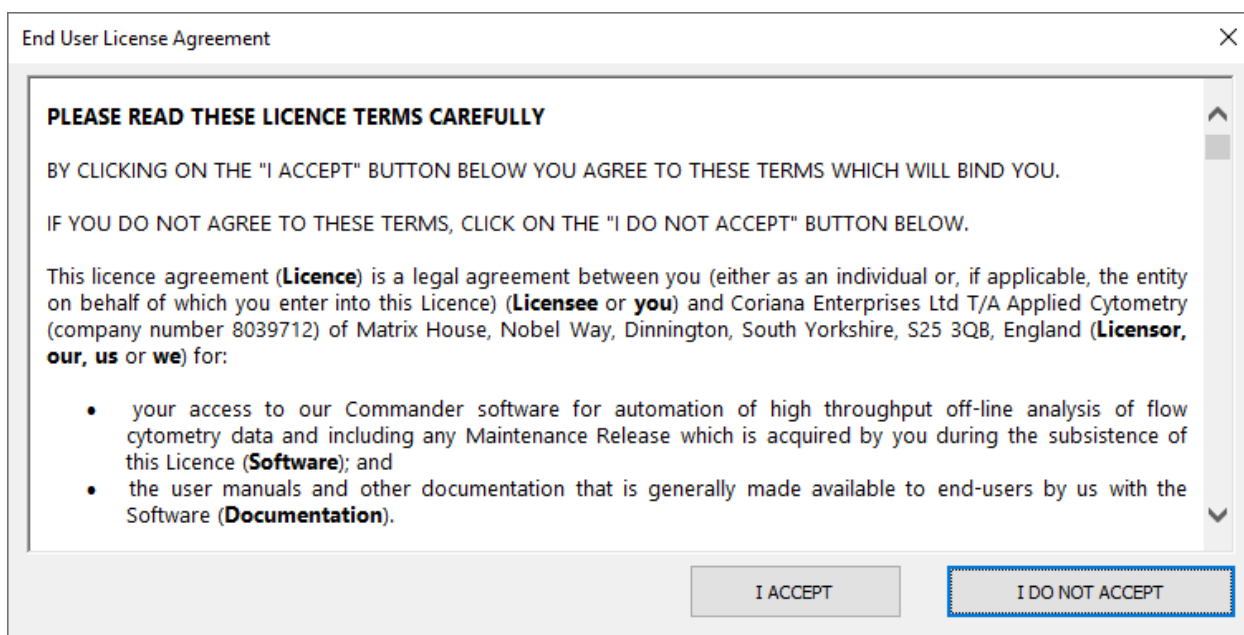
Click the **Yes** button to exit the installation process.

Click the **No** button to return to the **DK2 DESkey Drivers** installation wizard.

## 5 Commander Software

Go to the folder where the commander software was copied to then Run the **Commander.exe** to start the program.

On first running the software the License agreement will be displayed

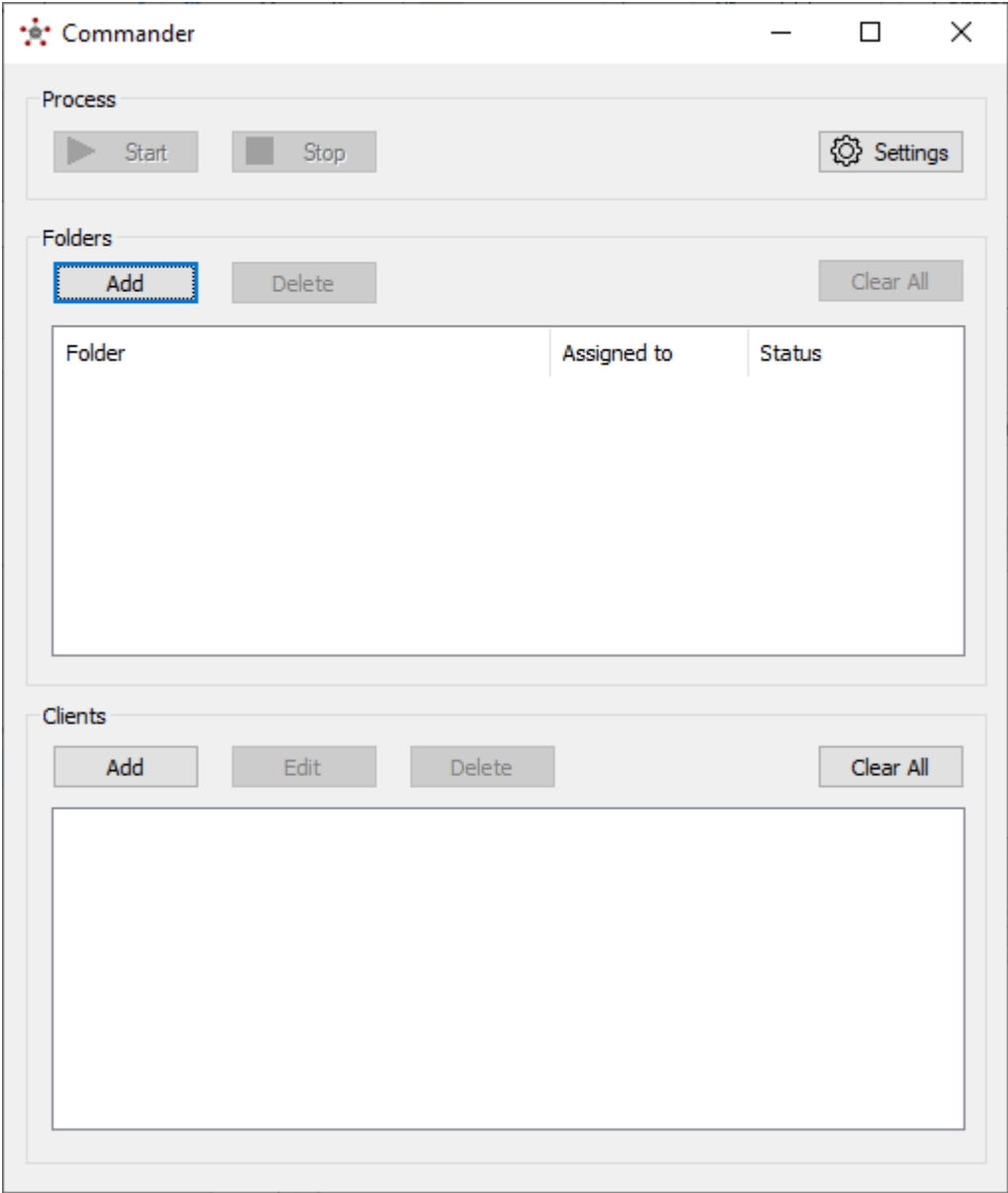


Please read the license agreement and click I accept to proceed.

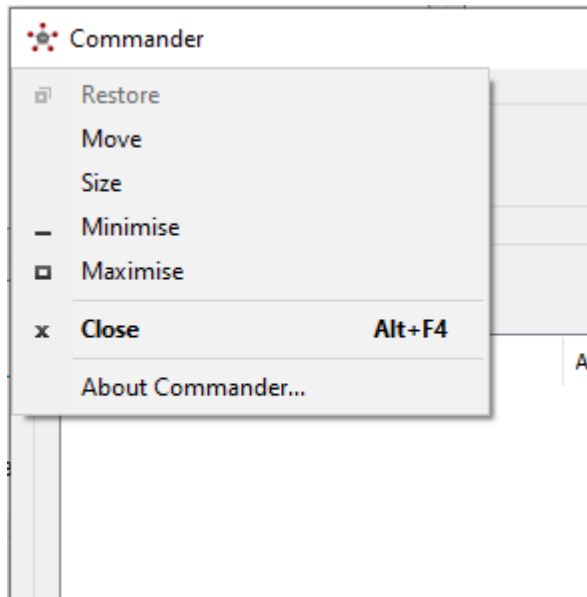
If you do not accept the software will close.



After clicking the I accept button the main Commander program is displayed.



## 5.1 Commander Application Menu



Clicking the Commander icon displays the Commander Application menu

### 5.1.1 Move and Resize Options

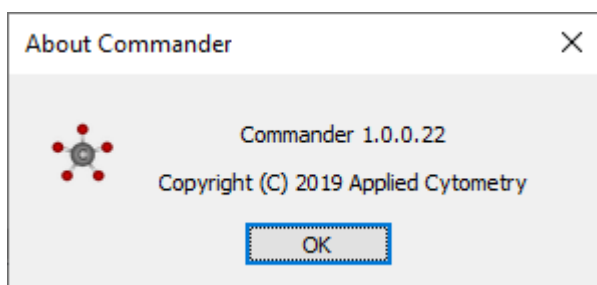
Use the Restore, Minimize, Maximize, Move and Size options to change the size or position of the application window,

### 5.1.2 Close

Click the Close option to close the commander software

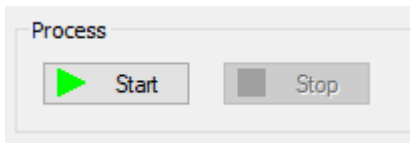
### 5.1.3 About Commander

Click the About Commander button to display version information

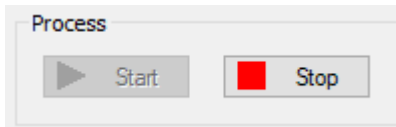


## 5.2 Process

Once folders have been selected for processing, press the Start Button to begin processing.



Once processing has begun, press the Stop button to stop further processing. Any active processes will be completed.



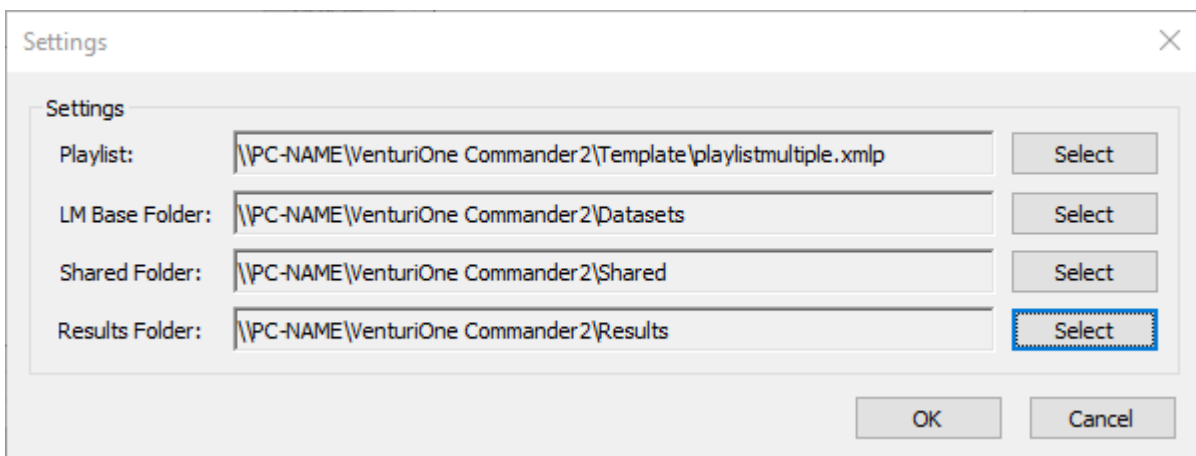
Pressing the settings button opens the settings dialog



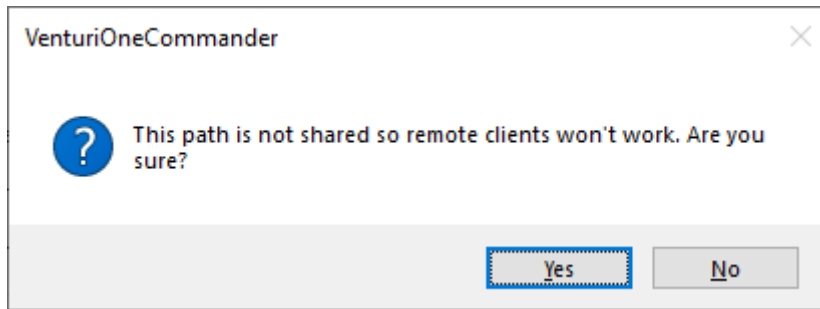
### 5.2.1 Settings Dialog

The settings dialog is used to set various default locations for the Commander program. A unique location should be used for all folders.

**Note:** All files and folders must be in shared locations visible to the PC running Commander and to all client PCs!



If you select a non-shared location a warning message is displayed



### 5.2.1.1 Playlist

This option allows you to select the template VenturiOne playlist that will be applied to all files.

The playlist selected must have only one defined line in it, and this must be the first line in the playlist.

The Workspace settings, compensation and selected statistics defined in the template playlist will be duplicated for each sample.

**Note:** The playlist must be in shared location visible to the PC running Commander and to all client PCs!

### 5.2.1.2 LM Base Folder

This folder sets the default location that will be opened when adding folders for processing.

If all your sample folders are stored in a particular location, set the LM Base Folder to that location to reduce the number of clicks required to locate required files and folders.

**Note:** The FCS files must be in shared location visible to the PC running Commander and to all client PCs!

### 5.2.1.3 Shared Folder

This folder is used by the Commander software to construct the temporary playlist that will be used by a client for processing files, this playlist is removed once processing is complete.

If processing fails it is possible the playlist may not be automatically deleted. Any remaining playlists may be manually removed after processing is complete.

**Note:** The location selected for the shared folder must be in shared location visible to the PC running Commander and to all client PCs!

### 5.2.1.4 Results Folder

This folder is used by commander to store all CSV files saved during analysis. One CSV file is created for each folder processed.

The CSV file is named after the processed folder names

To avoid duplicate file names if a folder is processed multiple times or if the same folder name is used from multiple locations the software will add the IP address of the client to CSV file name

**Note:** The location selected for the results folder must be in shared location visible to the PC running Commander and to all client PCs!

## 5.3 Folders

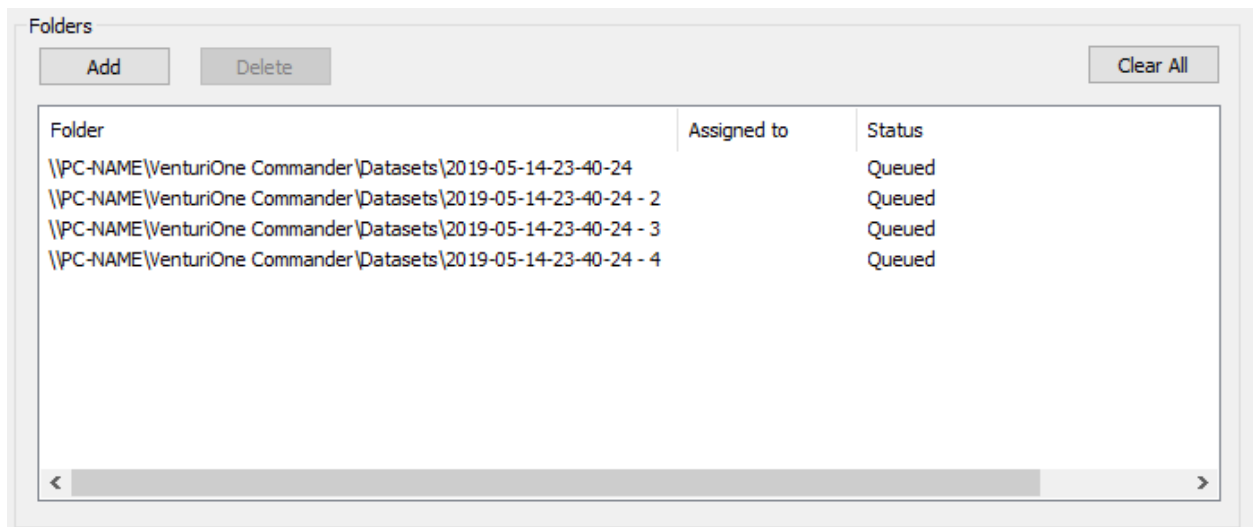
The folders area displays the folders selected for processing and allows the selection and deletion of folders for processing.

During processing the current status is displayed

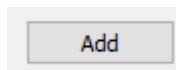
Individual folders or groups of folders can be selected for processing, One selection cannot exceed a total of 400 files.

A warning message will be displayed if more than 400 files are present in a selection

If files other than FCS files are present in a folder this may trigger the warning message to be displayed.



### 5.3.1.1 Add Button



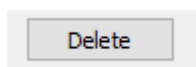
Click the Add button to select one or more folders to add to the Folder list, each folder will be assigned to a Client for processing.

Each folder added must contain less than 400 files.

Beware of adding folders which contain sub-folders – these will also be added for processing and may exceed the 400-file limit.

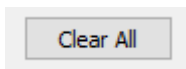
**Note:** Each folder added must be visible to all clients used for processing, and the contents must be shared with all clients used for processing.

### 5.3.1.2 Delete Button



To remove items from the Folders list, highlight the required item(s) then click the Remove button to remove the item(s).

### 5.3.1.3 Clear Button



Click the Clear All button to remove all items from the Folders list.

### 5.3.1.4 Folder List

The Folder list displays the folders select for processing. During processing it displays the Client that the task has been assigned to and the current status of processing.

| Folder   | Assigned to | Status |
|--|-------------|--------|
| \\PC-NAME\VenturiOne C...\2019-05-14-23-40-24  |             | Queued |
| \\PC-NAME\VenturiOn...\2019-05-14-23-40-24 - 2 |             | Queued |
| \\PC-NAME\VenturiOn...\2019-05-14-23-40-24 - 3 |             | Queued |
| \\PC-NAME\VenturiOn...\2019-05-14-23-40-24 - 4 |             | Queued |

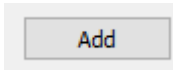
| Displayed Status            | Description  |
|-----------------------------|--|
| <b>Queued</b>               | Folder is queued for processing  |
| <b>Preparing</b>            | Folder is  |
| <b>Generating</b>           | Playlist is being generated  |
| <b>Processing</b>           | Playlist has been sent to client for processing and client is processing that playlist   |
| <b>Getting Results</b>      | Playlist has completed processing and CSV file of results is being generated and saved   |
| <b>Complete</b>             | Processing of folder is complete and results CSV file is available   |
| <b>Error: Error Message</b> | Processing of playlist failed – Error message should indicate the cause of the failure. Check the client computer for any additional; message displayed by the VenturiOne software |

For a completed task, the Results CSV file can be displayed by double clicking on an item. The file is stored in the Results Folder location set in Settings

## 5.4 Clients

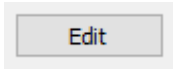
The Clients are those PCs running VenturiOne software that will be used for processing files.

### 5.4.1 Add Client



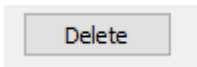
Click the Add button to display the Client Properties dialog and add a new client.

### 5.4.2 Edit Client



To edit an existing Client, highlight a Client in the Clients list then click the Edit button to display the Client Properties dialog for that client. Modify the settings as required and select ok.

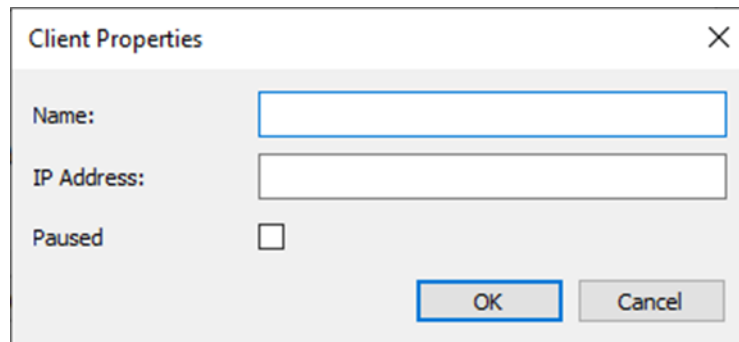
### 5.4.3 Delete Client



Select the appropriate Client, then press the Delete button to Delete a Client from the Clients list.

### 5.4.4 The Client Properties dialog

The client properties dialog is used when Adding or Editing Clients



#### 5.4.4.1 Name

Enter a unique name for the Client PC.

#### 5.4.4.2 IP Address

Enter the IP address for the Client PC

On a Windows 10 PC the current IP address of a computer can be found by going to **Settings**

Then Select the **Network & Internet** option



Then Select either

## Change connection properties

Or Select

[View your network properties](#)

Then look for the **IPv4** line for example...

IPv4 address: 10.0.0.106





Enter the displayed number in the format xxx.xxx.xxx.xxxx

### 5.4.4.3 Paused

Checking the Paused checkbox will pause processing on the selected Client. The Client will not be removed from the list but will not be used for processing folders unless this option is unchecked.

### 5.4.4.4 Client Status

The Client icon changes to display the current status

|  |  |
|--|--|
| <br>Client PC  | <b>Client Ready</b> – Commander has found the client and the client is running VenturiOne ready for processing   |
| <br>Client PC | <b>Client Busy</b> - The client is currently processing a task.  |
| <br>Client PC | <b>Client Paused</b> - The client is currently paused, uncheck the paused option to use this client for processing   |
| <br>Client PC | <b>Client Not Available</b> - The client cannot be found, the IP address maybe incorrect, VenturiOne software may not be running or the PC may be turned off |

Nov 2019