SOP-E020

CyAn/HyperCyt/Biomek/Cytomat6001 Automation System

Objective: To make the HyperCyt sipper, the CyAn flow cytometer, the Biomek robot, and the Cytomat incubator, all communicate in order to automate the act of running many of plates.

Note: IP address of CyAn is: 128.210.61.239
IP address of HyperCyt is: 128.210.61.81

To find the IP address of the CyAn open a DOS window and type: ipconfig

To find the IP address of the HyperCyt, on the desktop do START> all programs> IntelliCyt Applications>IntelliCyt Manager>XXXXXXXXXXXXXXXXXXXXXXXXXXXXx

CyAn- the CyAn needs to be turned on in a certain order anytime the computer is turned off, or if there is a strange problem.

1. Turn everything off.
    a. The main power switch on the back of the CyAn
    b. The main power switch on the right side of the SMS unit (sheath/waste tank system)
2. Shutdown the CyAn computer and turn power switch off.
3. Power up everything in this order (**order is critical**).
    a. SMS power switch (right side)
    b. CyAn main power switch (back of machine)
    c. CyAn computer

HyperCyt- if the HyperCyt gets disconnected form the CyAn, the following steps need to be reset:

1. Open **HyperCyt Controller** software
2. Click on **tools** tab
3. select **HyperCyt Options**
4. Under **Flow Cytometer Integration**, need to check the box that says "enable flow cytometer integration". It should be on Cytometer Cyan, if not, select Cyan from the dropdown menu.
5. Under **Automation Interface**, "enable Automation Interface" needs to be checked, TCP selected, port = 50012, and log automation commands should be checked
6. save

Shaker Shuttle

1. Securely place plate on the shaker shuttle.
2. At Biomek computer click on Biomek icon on the desktop, if it is not already open.
3. select **instrument** tab at tab bar across the top
4. select **device editor**

5. select **shaker shuttle**
6. select **action command**
7. select **run now**
8. **OK**
9. select **go to Biomek**
10. select **run now**
11. **OK**
12. select **go to Hypercyt**
13. **OK**
14. **close**

Hypercyt Error on Initialize:

Our problem (from Larisa): We didn't see "splitter distance must be…." message. We are unable to initialize the HyperCyt from the beckman comp (Biomek computer???????), the message is "there are no options to configure the step"

From Dennis Raguse March 9, 2011
Systems Engineer
Beckman-Coulter
(317)295-3847
ddraguse@beckman.com

Dennis was able to duplicate the error on the HyperCyt computer "splitter distance must be between…." when initializing. This error only occurs if the HyperCyt Controller Software is closed. Try starting the HyperCyt Controller Software first, then running the "Initialize" command on the Biomek computer.

Problem: most likely the error is due to our version of HyperCyt Controller software being slightly different from the one Beckman-Coulter has. Should be possible to resolve by copying a file on the HyperCyt computer as follows:

1. On the HyperCyt computer browse to **c:\program files\SILAS\IntelliHyperCyt**
   a. Rename the file **HyperCytAI.d11** to **HyperCytAI.old**

2. On the HyperCyt computer browse to **c:\program files\IntelliCyt\Applications\common**
   a. Copy the **HyperCytAI.d11** file and paste it into the **c:\program files\SILAS\IntelliHyperCyt** directory

3. Reboot the computer, then make sure the Bridge software is running on both computers and is connected (i.e. the light is green).

4. On the Biomek computer: run an "Initialize" command, then a "Select Experiment", and a "Run Experiment". If the command doesn't work, it cannot be aborted. Instead, kill the process **IntelliCytHyperCytModule.exe** in Task Manager.

Created by: Kathy Ragheb

Verified by:_____Date:___04/04/2011_____ _____

_____
Print Name Sign Name