#### Changes in v09609 –

This maintenance release includes support for the following functions. If you do not have a need for these functions, you do not need to update the firmware.

- Unit will turn the vacuum pump off automatically if a measurement is completed and the system loses communication with the PC.
- Modified the minimum profile size that can be scanned in a profile or custom chart measurement. (note: need version ITX v1.5 or higher to use this feature).

The ITX hardware must be configured at factory defaults prior to beginning the firmware upgrade. For most customers this is the normal circumstance. Factory default uses static IP addressing and the provided crossover (yellow) interface cable. The notes that follow detail the upgrade process.

#### Setting Static IP mode -

- 1. Ensure that the computer and the ITX track are connected with the provided crossover (yellow) interface cable.
- 2. Gently pull the head away from the station (about 6 to 8 inches). The status indicator will turn to a steady orange.
- 3. Press and <u>hold</u> the station button. Continue to hold until the status indicator begins to flash green (about three seconds).
- 4. Release the button and then press it four more times. The status indicator will go from flashing green, to flashing orange, to flashing red, and finally to alternating orange and green.
- 5. After the forth press, wait about two seconds and then press and <u>hold</u> the station button again. In approximately three seconds, the scanning head will return to the station. The status indicator will continue to flash orange and green and then will become a steady green after a few seconds.

### Flashing the Firmware –

- 1. Shutdown any and all firewall and anti-virus software that you may be running. If you are unsure please seek assistance from your Information Technology department.
- 2. Insert your upgrade CD into the optical disk drive.
- 3. Launch the ITX program.
- 4. Click on the "ToolCrib" icon.



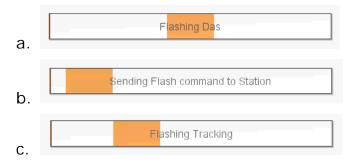
- 5. You will be prompted to enter your password.
- 6. Ensure that "ITX" is selected in the "**ToolCrib**" dialog. Then click on "**Go**".

|             | Select a device: |  |
|-------------|------------------|--|
| 5XX         |                  |  |
| 9XX         |                  |  |
| IntelliTrax |                  |  |
|             |                  |  |

 Using the "Setup" tool, select the first tab, "Download". The Instrument Information dialog will show your current hardware status. In the screen below, the hardware has just been updated to v06502 and v07727.

| STOP<br>Download Calibration   |   | onfiguration Head Status Hardware Test |
|--|---|--|
| <b>STOP</b> : Ensure that your existing firmware number begins with "v06 or v07". Older firmware cannot be updated in the field. | Instrument Information Das Version: X-Rite ITX_DAS v06502 Station Version: X-Rite ITX_STN v07727 Tracking Version: Head Serial Number: B52 Track Serial: ITX002068 Please select the firmware file to download Firmware File: Select File |  |
|  |   | Load Firmware                          |

- 8. Click on the "Select File" button and browse to the upgrade CD. Select the .hex file on the CD and click OK.
- 9. You are now ready to load the firmware. To continue, select the "Load Firmware" button.
- 10. The upgrade process will take almost 10 minutes to complete. During this time you will see a progress bar beneath the load firmware button. Do not interrupt this process! If this process is aborted, the hardware will be left inoperable and will require factory repair.



11. As the process nears completion the track will perform a reset. When this occurs there will be a brief loss of communications between the computer and the scanning hardware. THIS IS NORMAL. The equipment will recover in 10 to 15 seconds.

|                  | Ree              | stabli <mark>shing conn</mark> ectio | n                      |          |
|------------------|------------------|--------------------------------------|------------------------|----------|
| Done!<br>Almost! | 5u<br>Firmware I | ccess<br>i<br>Firm                   | ware loading complete. | ect File |
|                  |                  | (                                    | ок                     |          |

- 12. You may now remove the CD from the drive and store in a safe place. Your system firmware has been successfully upgraded.
- 13. Continue with the NCIS Black and White Calibration.

NCIS Black and White Calibration -

- 1. Using the "Terminal" tool, select the second tab, "Calibration".
- 2. Click on the "NCIS Black and White Calibration" button.

| 🋠 ToolCrib                              |                                  |                                  |                  |
|---|----------------------------------|----------------------------------|------------------|
| <u>F</u> ile <u>T</u> ools <u>H</u> elp |                                  |                                  |                  |
| Setup                                   | Terminal                         |                                  |                  |
| Download Calibration Netwo              | rk Configuration Track Configura | ation Head Status Hardware Test  |                  |
| White Calibration                       | Paper Stop Calibration           | NCIS Black and White Calibration | NCIS Y Allgnment |
|   | Please select th                 | ne Color Reference file          |                  |
| Color Ref File:                         |                                  |                                  | Select file      |
|   | Measure (                        | Color Reference                  |                  |
|   | Please select the C              | alibration Reflectances file     |                  |
| Cal Refs File:                          |                                  |                                  | Select File      |
|   | Los                              | ad Cal Ref                       |                  |

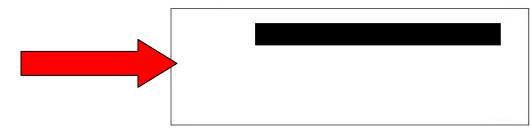
3. Place the reference card on the track. Make sure the card is placed firmly against the paper stops and is placed on the track with the large black strip under the NCIS sensor.

| A Proce Stop  | Psyn ibgr∳                         |
|---|------------------------------------|
| кон к 12 и и колого то лого 2 2 и   |                                    |
| Inconst   |                                    |
| The interiors multiple key ideas. Use a dean, dry, sol don'to keys meterna dean. Neasurement accuraci is dana<br>anticate by anudar martis, dustand temperature. Ros meterica h protectue encades and outortight when rollin<br>Color Reflectance Reference | nalically<br>use .<br>P/N AT240-84 |

4. Click on the **"OK"** button. The NCIS sensor will read the Black Strip.



5. Once the 'black' calibration has completed; flip the card over with the large white area under the NCIS sensor.



6. Click on the "OK" button.



7. After the 'white' calibration has completed, click on the **"OK"** button.

| Toolcrib |                         | × |
|----------|-------------------------|---|
| i        | Calibration Successful! |   |
|          | ок                      |   |

8. Disconnect and reconnect the power from the ITX. Reconnect to ToolCrib and run through the **"Head Status"** routine.

