Application Note
STV Track Log Format
March 10, 2003

This Application Note describes the format of the STV Track Log. The STV Track Log is sent out the STV's serial port when the STV is in Track mode. This data can be viewed with programs like Hyperterminal.

The data sent has the following format with one entry per track cycle:

TTTTTT.TTT,SSSSSS,XXX.XX,YYY,YY<CR><LF>

TTTTTT.TTT is the time of the report in seconds since the STV was turned on. It is 10 characters wide with 6 digits of integer, a decimal point and 3 digits of fraction.

SSSSSS is the integrated sum of all the counts in the star brightness in ADU units. It is 6 characters wide with 6 digits of integer.

XXX.XX is the star's X centroid position in 7.4 micron pixel units relative to the desired position. It is 6 characters wide with 3 digits of integer, a decimal point and 2 digits of fraction.

YYY.YY is the star's Y centroid position in 7.4 micron pixel units relative to the desired position. It is 6 characters wide with 3 digits of integer, a decimal point and 2 digits of fraction.

Each of the above four fields are separated by a comma.

Finally <CR><LF> are Carriage Return and Line Feed characters (0x0D, 0x0A).