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McStar Users Guide

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Equipment List

- HP NetBook PC
 - Parani SD1000 on USB serial port
 - Hyperterm 115200,8n1
 - Audacity
 - USB cable for USB drive for uploading data (USB-A to mini).
- McSTAR
 - Magnet on 'white spot' turns off the 5v supply
 - Keep magnet away from harddisk area (near white spot)

McStar Startup

- Step 1 - connect USB serial and Bluetooth dongle to HP Netbook
- Step 2 - power up HP Netbook and login
 - Bluetooth dongle should toggle 'connect' LED
- Step 3 - Start Hyperterm. Programs --> Accessories --> Communications --> Hyperterm --> McStar USBser 115200
 - 115200, 8n1, no flow, COM5
- Step 4 - remove magnet from McSTAR 'white spot'
 - If no activity, hit ENTER a couple of times and put magnet on white spot and remove.
 - Should see a boot screen, do not hit a key to stop autoboot

McSTAR Functional Test

- Step 1 - in Hyperterm, after McSTAR has booted, login with by entering 'root'
 - JFFS2 message is harmless, but if login not seen due to JFFS2 message, hit ENTER a couple of times.
- Step 2 - cd /media/sda1 (USB harddisk connected to McStar)
 - List (ls) should show app dir
- Step 3 - 'cd /media/sda1/app/scripts'
- Step 4 - type 'date', then type 'date -s "Tue Mar 09 10:54:30 PST 2010"'
- Step 4 - start the McSTAR app './run_mcstar.sh'
 - Allow it to run until the first recording message comes out. Say stuff, whistle, whisper, etc. every 10 seconds or so (data blocks vary from 2 to 20 minutes; typically 5 minutes).
 - After the first recording data message, hit Ctrl-c (terminate McSTAR data collection).
 - "Writing a new audio file D000000..."

Verification

- Step 1 - after terminating run_mcstar.sh In Hyperterm, change directories to the data directory.
 - cd /media/sda1/data

- cd to the latest directory, then cd to R00000
- Find the file and transfer
 - In Hyperterm, Transfer --> Receive File, use Zmodem (no crash recovery). Close
 - In hyperterm, tell McSTAR to transfer the file you recorded
- sz D00000
- On the HP Netbook, start Audacity

On Windows

- Project --> Import Raw Data
 - Accept the defaults, and change 44100 to 48000

On a Mac

- File --> Import --> Raw Data...
- select file
- open file and accept default settings except Sample Rate - change from default value of 44100 Hz to 48000 Hz (sampling rate of McSTAR).

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