G6GVI's OT2 *(Tracker2)* quick-start guide *(version 5)*

This document is intended to supplement the ***Tracker2 model OT2m User's Manual***, which is now available on-line:
http://www.argentdata.com/tracker2/tracker2_manual.pdf

Have a look through that first, and when you're ready to start, read on..

Testing

Connect the SERIAL port to a PC COM port using a null-modem cable.
Apply DC power either through the POWER jack, or via pins 6 & 7 of the RADIO port.
Use a terminal program on the PC, such as *TeraTermPro* or *HyperTerminal*, with the baud rate set to 9600, 8-bit, no parity, 1 stop bit.
Power up the OT2, and press <RETURN> half a dozen times: the boot-up message should appear on your screen.
Note the firmware build number: if this is less than 54379 then it will need updating (see below)

Configuration

If you're using a Windows PC, then download the configuration program from:
http://n1vg.net/opentracker/otwincfg.exe
This Graphical User Interface allows most of the parameters to be set quickly.
(If you're using a simple terminal, all the parameters must be set individually using command lines.)

Firmware update

This is done using the Windows GUI:

1. Start the config program and click Connect
2. Power up the Tracker: the config program shows the Firmware Build number
3. Select **Load Firmware** from **Web**
4. Select *the latest OT2 firmware* from the list
5. **Yes** to **Erase current config and use defaults**
6. You should now have the latest Firmware Build installed!

A lot of your parameters can be set from within the GUI, but a few will still need to be set manually via the terminal.

Setting TX output level

This is best done within the GUI.
Use the **Tuning aid** to turn on the PTT and enable one or both tones. Set the level with the slider control for suitable deviation on your transmitter.
Alternatively, set the level from the terminal using the **TXLEVEL** command (0..255).

Note that the TX levels are independent between the two configurations.
Also set **TXDELAY** to allow for the transmit/receive changeover time of your radio.

Setting up as a Tracker

Configuration is very similar to that described in pages 8-18 of the OT1+ manual:
http://n1vg.net/opentracker/ot1+.pdf
The OT2 will also output waypoints to a Garmin eTrex GPS: set **AMODE GARMIN,** and remember to switch your GPS interface to GARMIN too.
The **MAXRANGE** setting will ignore positions outside a particular radius – if this is set to zero, it will fill up your GPS's Waypoint memory with *all* the positions it receives off-air!

Setting up as a message terminal

This allows messages to be sent and received with a simple terminal (e.g. *HP95LX, Jordana, Psion,* etc.)
You need to set **AMODE AUTO**, but the automatic baud-rate selection needs half a dozen characters to detect the rate, so I prefer to set **AUTOBAUD OFF** and **ABAUD 9600** which means that a couple of <RETURN>s are sufficient to establish the serial link.

MONITOR ON will display all traffic on the terminal, but turning this **OFF** will just display messages sent to *yourcall-SSID*.
HEADERLN ON may make the traffic easier to read off the screen.
RING ON will sound the bell on incoming messages.

Use the **SEND** command as follows:
SEND g0grx this is a test message from OT2

If an ACK is received, this will appear in the terminal window.
The current **PATH** setting will be used, so set this to your local Digi or IGate if necessary.
Set **RETRIES** and **RETRYTIME** as appropriate.

You can reply to the last incoming message with **REPLY** *(no callsign need be specified).*

Setting up as a KISS TNC (for use with UIView, etc.)

First set:
AMODE AUTO
AUTOBAUD OFF
ABAUD 9600.

Then either enter KISS directly with **AMODE KISS**, and exit with a couple of <Ctrl-C>s.

Alternatively, use the KISS setup in *UIView* or *AGW Packet Engine* to send the following commands:
^M
^M
AMODE KISS

I find it useful to add **INTERVAL 0** before the AMODE KISS, to disable the OT2's internal beacon when it's being operated in this mode.

Setting up the digipeater

Note that when enabled, the digipeater operates in terminal, tracker and KISS modes, so make sure that you disable it if you're already using *UIView*'s internal digi.

Set up the aliases in from the GUI's **Digipeater settings** panel, or use the commands **DIGI, DIGIID, DUPETIME, USEALIAS, ALIAS, PREEMPT** from the terminal.
(I've set my digi to work on *RELAY* and *RAYNET* addresses.)

Configuration with a terminal

Note that there are two independent configuration profiles: **CONFIG 1** and **CONFIG 2**. Unless you intend to use this switching facility, leave **CONFIG** set to the default (0=1).

Switching between **CONFIG 1 & 2** may be performed by a "jumper". In the latest hardware, this is actually part of the front-panel RJ12 socket: connecting pin 6 to ground (pins 2 or 3) sets this "jumper". You could make up a plug-in link to do this using an RJ12 plug.

The full Command Reference is published in the User's Manual:
http://www.argentdata.com/tracker2/tracker2_manual.pdf

Further information and support

Check the *tracker2* support forum on YahooGroups:
http://groups.yahoo.com/group/tracker2/
if you have any problems – other users may have had the same, and found the solution, or may have reported a bug with a particular command.

If you have any suggestions for improvements to *this document*, please email:
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