Radio Astronomy Supplies APPLICATION NOTE 2 THE BASIC RADIO TELESCOPE

A Brief Description

The modern radio telescope is constructed with some simple and often more complex circuitry. In the early days of radio astronomy, it was easy to obtain parts ant construct a functioning radio telescope. Modern day circuitry is more complex and often designed in the microminature realm, with circuit board technology. Specialized test equipment is a must when tuning and testing is required.

<u>It is still possible to construct</u> an operating system with pre-assembled, commercially made modules. The reading material within the websites below, will point the reader in the right direction.

In any endeavor, it is best to start off with a good basis of knowledge. This Application Note offers basic illustrations, of a few radio telescope designs.

Generally, the basic radio telescope is made up of the following modules:

- ?? Antenna
- ?? Low Noise Amplifier
- ?? Mixer
- ?? Local Oscillator
- ?? IF Amplifier
- ?? Square Law Detector
- ?? A/D Converter
- ?? Computer

Some further reading is suggested on this subject. You may want to look at the following websites for related books:

RADIO ASTRONOMY SUPPLIES

http://www.nitehawk.com/rasmit/ras.html

RADIOSKY PUBLISHING

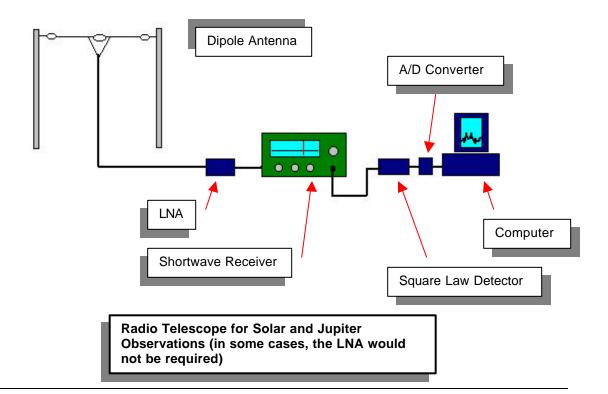
http://www.radiosky.com

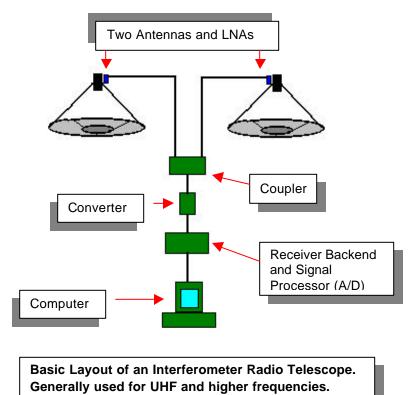
SOCIETY OF AMATEUR RADIO ASTRONOMERS

http://www.bambi.net/sara.html

The following illustrations will give the reader an idea of the typical radio telescope.

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4/2001

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