



THE EASIEST WAY TO ALIGN A SATELLITE DISH

Easy to use

The **PRODIG-1** satellite hunter is an instrument designed for the installation of Direct To Home (DTH-DVB) systems. Able to read and process the information transmitted by the satellite itself, it is fully automatic and very easy to use.



A "non-measuring" instrument

The **PRODIG-1** does not present measurements that require interpretation by the installer. The equipment constantly makes measurements and processes the results on its own. This guarantees maximum quality of the installation and significantly reduces the margin of error.

Identification of up to 16 satellites

In IDENTIFICACION (2) mode, the equipment reads the information it receives from the satellite, presenting the orbital position and name of the service or satellite for a maximum of 16 satellites that can be programmed as the user deems appropriate.

Exclusive for a single application

In the exclusive mode, the equipment is programmed for a specific purpose. For example, pointing the dish toward a given satellite. Any possibility of error is eliminated. Equipment thus programmed can be reconfigured at any time through a programme delivered with the equipment.



Bit Error Rate

The Bit Error Rate measurement can present either of two states: "ber" when quality is below the threshold and "BER" when it is above it. This value is suggested by DVB and can be adjusted at will if it is desired to keep up a safety margin which guarantees the installation's quality.



Fine tuning (Signal to Noise)

The adjustment of the maximum value for the Signal to Noise ratio coincides with the optimum adjustment of the cross polarisation. The graphic bar facilitates fine tuning to discern between nearby satellites, with resolutions below one degree. When the quality of the signal is lower or higher than the threshold, "snr" or "SNR", respectively, appears on the display. This value is suggested by DVB and can be adjusted at will if it is desired to keep up a safety margin which guarantees the installation's quality.



Rough Construction

PRODIG-1 has been designed as a portable instrument for outdoor use. Therefore, rough features have been foremost in its design.

The equipment is built into a tough ABS box with a fully watertight front panel. The input connector is replaceable and the instrument is shipped with BNC and F connectors. The equipment includes a carrying bag with a belt, freeing the installer's hands for carrying out readings.



Long-life battery (Li-Ion)

Given the high consumption of LNBs, one of the fundamental features for this type of portable instrument is battery life. The **PRODIG-1** has been designed to allow continuous supply to universal LNB for over two hours. The charging time is short; just one hour for a nearly-complete charge. Using the adapter cable shipped with **PRODIG-1**, the equipment can be charged from a vehicle's cigarette lighter en route to jobs. A universal charger is also delivered with the equipment.



Detection of short circuits and protection

The equipment allows detection of LNB consumption. Outages in the cable or faulty LNB operation will be indicated by the equipment. It also has a short circuit detection feature.



SATELLITE HUNTING GUIDE

1 DETECTION

The detector is activated to indicate the presence of any analogue or digital satellite.



ADJUST TO MAXIMUM POWER

2 IDENTIFICATION

The located satellite or service is identified and the information transmitted by the operator, in addition to the quality of the digital signal, are presented.



IDENTIFY SATELLITE OR SERVICE
IDENTIFY ORBITAL POSITION
CHECK BIT ERROR RATE (BER)

OPTIMUM

3 FINE TUNING

Optimum reception of the signal is attained by adjusting the signal to noise ratio to the maximum.



ADJUST SIGNAL TO NOISE RATIO TO MAXIMUM

EQUIPMENT CONFIGURATION

The equipment is delivered configured for the most common satellites in the various regions. This configuration can be changed



at any time using the programme and cable shipped with the instrument.

TUNING	
Frequency range	950 MHz to 2150 MHz.
Measurement points	16 maximum.
RF INPUT	
Connector	Universal, with BNC or F adapter.
Level range	30 dB μ V to 90 dB μ V.
Maximum signal level	120 dB μ V
QPSK SIGNAL PARAMETERS	
Symbol rate	1000 to 30000 kbauds.
Code rate	Auto and 1/2, 2/3, 3/4, 5/6, 6/7, 7/8.
Spectral inversion	Automatic.
EXTERNAL UNITS	
POWER SUPPLY	
Output voltage	Through the RF input connector 13 V, 18 V. \pm 1 V.
Maximum output current	300 mA.
22 kHz signal	Selectable.
POWER SUPPLY	
Battery	Li-Ion battery 7,2 V 2,2 Ah.
Low battery indication	Acoustic indication and a message on the display.
Autonomy	2 h typically, powering a universal LNB and identifying a signal continuously.
Charging time	3 hours starting from a complete discharge. 1 h 80%
Mains Adapter	90 - 250 V/50-60 Hz/18W.
Maximum consumption	18 W.

SATELLITE HUNTING

PRODIG-1

