

RP-300



The need for interactivity

The use of the return band in cable networks is in expansion. Internet services, Pay Per View and Video On Demand are increasing the need for interactivity. The systems have to adapt to the new requirements and test instruments for installation, adjustment and maintenance with features covering these applications are becoming a must.

To test the return band there are two alternatives. The basic solution requires injection of signal at the remote site and checking of the reception levels in the head-end. This will normally involve two persons calling each other for adjustments. The more sophisticated method allows all testing by only one engineer on the field with a signal generator and some monitoring equipment. The former is a solu-

tion that involves at least two persons and the latter requires heavy investments in test equipment.

Low cost & high efficiency

Now **PROMAX** presents a compromise solution where only one operator is required for testing and adjustment of the return path with a low cost system.

On the remote site, the **RP-100** Return Path Multi-carrier Generator injects one or two carriers (up to 4 with **RP-100Q**) into the network.

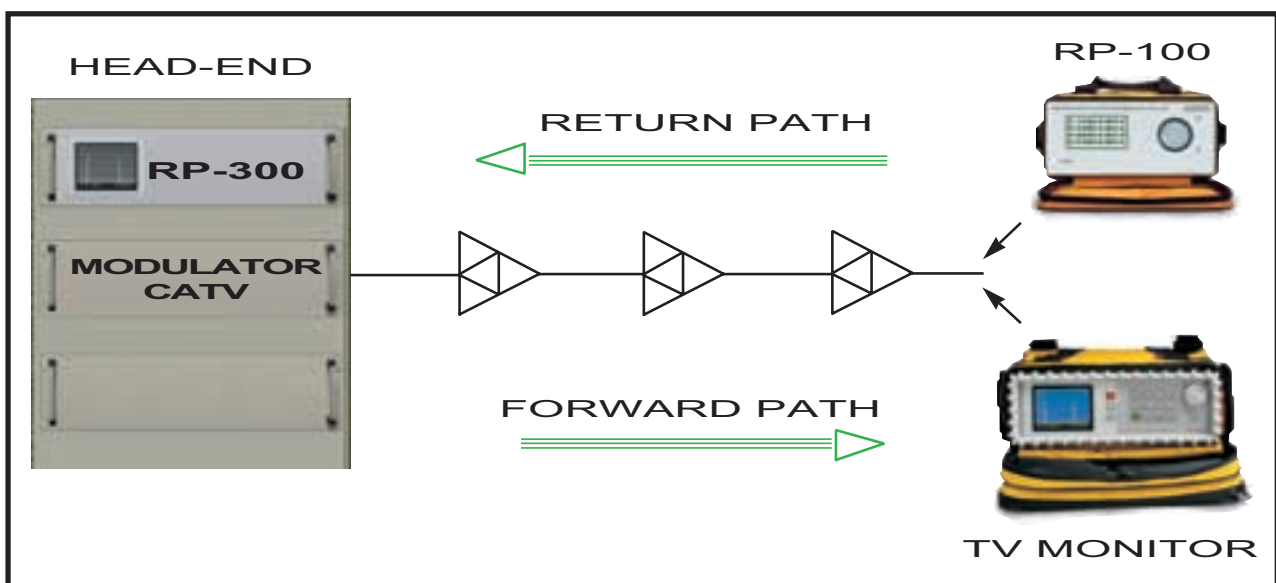
Frequency of the carriers can be selected in the range of 5 to 100 MHz. Level can be set from 90 dBuV to 110 dBuV (30 dBmV to 50 dBmV) in 1 dB steps.

Return Path

The Return Path Monitor **RP-300** displays the return band at the head-end showing the status in which the injected carriers are received there.

This screen can now be modulated into a free channel and transmitted back through the forward path. At the remote site, the engineers will be receiving a real time picture of the signals seen at the head-end, and for those operators who already own a spectrum analyzer, such as the **PROLINK-3**, no further investment in test equipment should be needed.

By selecting the right frequency and level for the various carriers on the **RP-100** it will be possible to easily and efficiently test and equalise the return path.



Simultaneous tests

With the **RP-300** & **RP-100** test set it is not only possible to properly install the system but it also allows a safety margin to prevent potential problems that may affect to service quality in the future. This is not possible if systems with fixed carriers are used.

* 19" RACK MOUNTED

* BNC VIDEO OUTPUT

* SPECTRUM ANALYSER

* 4 PILOT HYSTOGRAM

* BUILT-IN CRT MONITOR

* COMPATIBLE WITH ANY TONE GENERATOR

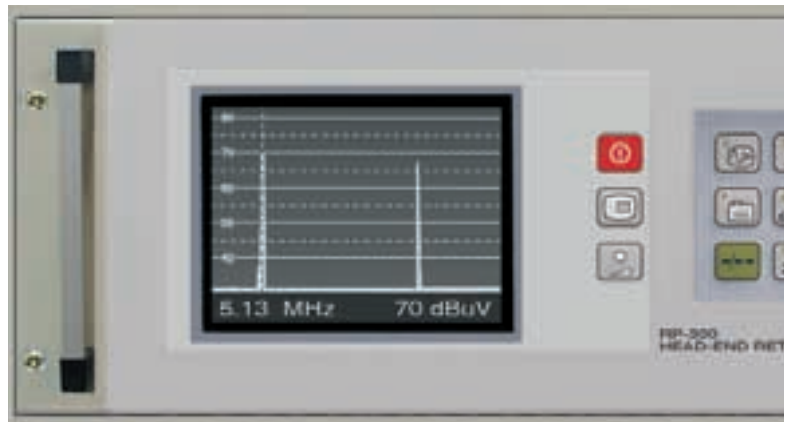
* EASY TO INSTALL



Another interesting advantage of using this system is that it allows to carry out tests from different sites simultaneously. The only condition will be to set different frequencies so that each engineer can easily identify its source.

Additional features

The **RP-300** includes all features in **PROLINK-3+** so that being a Head-end unit it can also be used to test several parameters in the network. Specially interesting is the spectrum analyser which can be used at any time as an online analyser.



Specifications	RP-300	Monitor	4.5" B&W CRT
Tuning Tuning modes Resolution Automatic search Memory	5 to 862 MHz Frequency, Channel or Memory. Channel tables configurable on demand 50 kHz Threshold level selectable 99 positions for measurement configurations	Measurements Analogue channels Digital channels Return path	Level and Carrier-Noise ratio Channel power and Carrier-Noise ratio Graphic analysis of up to 4 carriers in the return path
Level measurement Measurement range Reading Measurement bandwidth Audible indication	Terrestrial TV & FM bands from 20 dB μ V to 130 dB μ V (10 μ V to 3.16 V) Auto-range, reading is displayed on a OSD 230 kHz LV audio. A tone with pitch proportional to signal strength.	Video Video output	BNC (75 Ω). Monostandard composite video signal depending on the selected version (PAL-B/G/I/D/K, NTSC-M, PAL-M...) The contents of the screen are reproduced in video
Accuracy Terrestrial bands	± 1.5 dB (30-120 dB μ V, 48.25-861 MHz)	Mechanical features Dimensions Weight	482 (W) x 132 (H) x 329 (D) mm Rack 19" 3 U F266 mm 7 kg