

LS Non-Linear Junction Detector



WESTMINSTER
GROUP PLC

Product Code: 4040-09

Features

Can Absorb Media with High Humidity

Remote Detection with Spatial Selection of Target

Detection of Small Semiconductor Elements

Reliable Detection of SIM-Card at 10-15 cm

Universal Control Unit with Replaceable Receiving/Transmitting Units and Extension Rod

User Friendly Interface



Overview

Westminster's Non-Linear Junction Detector is the world's only non-linear junction detector featuring an integrated spectrum analyser of 2nd and 3rd harmonics and interchangeable transmitter-receiver unit of 3 frequency bands: 800 MHz, 2400 MHz and 3600 MHz.

The detector is ideal for efficient identification of artificial and natural semiconductors. For listening through a built-in speakerphone or headphones after AM or FM, decoding of the signal in continuous mode is used.

The operator can analyse not only the amplitude but also the spectra of 2nd and 3rd harmonics signals re-emitted by a non-linear object, relative to probing frequency, which increases the informational content of the non-linear features of the object.

There is a built-in module measuring the reflected power of the probing signal from the research object, which allows it to estimate the extent of the reflecting surface of the object.

Key Features

Universal control unit with replaceable receiving/transmitting units and extension rod

Built-in spectrum analyser of 2nd and 3rd harmonics increases identification efficiency of semiconductor elements (for 800 and 2400 MHz)

Vivid and explicit indication of power levels of the signal and the received harmonic-waves

Automatic protection system against centred jamming by criterion of a minimum noise in the receiver path of the 2nd harmonic

User friendly interface and unified push-button control. It does not require pre-setting before the start

Electromagnetic radiation towards the operator is many times less than one set by the Regulator

LS Non-Linear Junction Detector



WESTMINSTER
GROUP PLC

Technical Characteristics

Antenna Module	08	08c	24	24s	36m
Frequency of Probing Signal in the Range	800MHz	800MHz	2400MHz	2400MHz	3600MHz
Max Power of Probing Signal (max./average), Pulse Mode	10W//230mW	10W//230mW	10W//230mW	10W//230mW	18W//112mW
Continuous Mode	300mW	300mW	300mW	300mW	-
Pulse Mode with low off-duty factor (CW)	-	-	-	-	6W//375mW
Receiver Sensitivity	-	-	-110dBm (-140dBmW)	-	-
Probing Signal Power Adjustment Range	-	-	20dBm	-	-
Receiving Path Dynamic Range	-	-	24dBm	-	-
Battery Life at max Power in Pulse Mode	3.0h	2.5h	3.0h	2.5h	2.5h
Battery Life at max Power in Continuous Mode	1.5h	1.5h	1.5h	1.5h	1.5h
Module Dimensions (cm)	40 x 20 x 7	40 x 20 x 7	40 x 20 x 7	40 x 20 x 7	40 x 20 x 20
Telescopic Rod Sizes (cm)	54 x 4 x 4 (86 x 4 x 4)				