

# IVR-Multitester

xDSL / Field Strength tester with OTDR, OPM, VFL and Optical Microscope



IVR-Multitester touch screen handheld is an Android 4.4 or higher OS tester specially designed to avoid the need of several tools in the field.

IVR-Multitester combines xDSL telecom test functions like ADSL/VDSL, ONU, DMM cooper quality tester, or field strength meter index (TV signal level meter) with OTDR, fiber microscope, optical power meter, VFL, cable tracing, cable line sequence, IPTV test, landline telephone and barcode scan.

- IVR-Multitester-xDSL: 4G Android OS Smart Phone + xDSL + DMM cooper quality tester + ONU + IPTV Test + OTDR + Fiber microscope + Optical Power Meter + VFL + Cable Tracing + Check line sequence + Landline Telephone
- IVR-Multitester-FS: 4G Android OS Smart Phone + Channel table management + Signal test + Channel scan + Channel QAM + Slop test + Voltage test + Digital TV management + Simulate TV test + Main line voltage test + Level test function + Star map test + Spectrum test + OTDR + Fiber microscope + Optical Power Meter + VFL + Cable Tracing + Check line sequence + Landline Telephone
- Resistant to dropping impact from 1.2m height, good water-proof, and dust-proof effect
- 5 inch vertical LCD touch screen with non glare and reflective technology to make work in the sunlight more easy and convenient
- Advanced 8200 mAh lithium battery with strong endurance

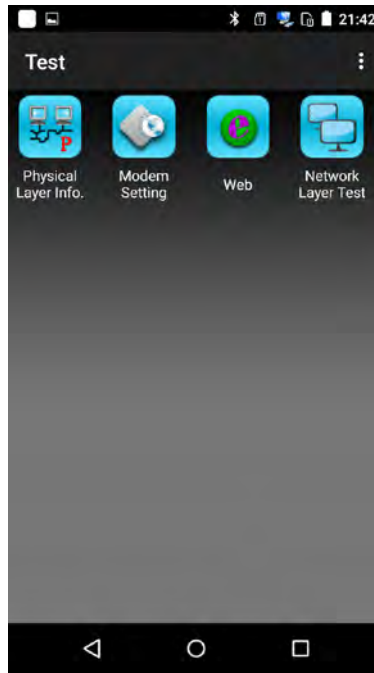
## Specifications

IVR-Multitester-xDSL	
<b>ADSL2+ Module</b>	
Standards	ITU G.994.1 (G.hs), ITU G.992.5, ITU G.992.5 Annex L. The max distance which can be connected is 6.5km. Be compatible with ADSL, ADSL2 and RADSL.
Attenuation	0~63.5 dB
Noise Margin	0~32 dB
Upstream Channel Rate (interweaved / fast mode)	0~1.2Mbps
Downstream Channel Rate (interweaved / fast mode)	0~24Mbps
The modulating bits in the DMT sub-channel	0~15 and each sub-channels' frequency points
The number of error codes	CRC, HEC, FEC, NCD, OCD
<b>VDSL2 Module</b>	
Standards	ITU G.993.2(VDSL2).Be compatible with ADSL2+, ADSL standard.
DSL line transmission parameter	DSL line attenuation DSL line noise margin, DSL line up channel speed (Inter/Fast mode)0-100M DSL line down channel speed(Inter/Fast rate)0-100M DSL line up/down maximum rate and capacity ratio 0-100M DMT sub channel bit number: 0~15 and each sub channel frequency points DSL line error number (CRC, HEC, FEC, LCD, OCD) DSL line local output power State display: signal loss, connection close DSLAM information Error Code Secon Impulse Noise Protection (INP)
Support profiles	Profile 8a, 8b, 8c, 8d, 12a, 12b, 17a

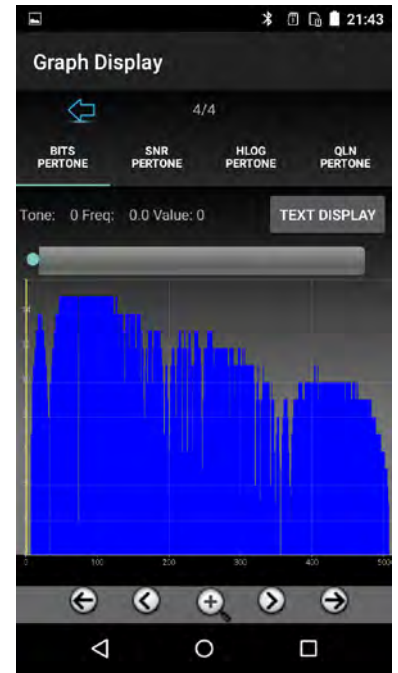
## Functions Screen



## xDSL



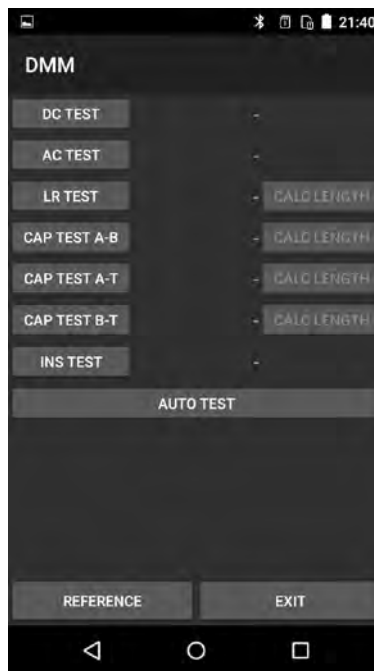
## xDSL Graphs



## PPPoE



## DMM Cooper Quality



IVR-Multitester-FS: Field Strength Meter Index (TV Signal Level Meter)	
Frequency Index	Frequency Range: 5MHz~1000MHz Accuracy: $\pm 50 \times 10^{-6}$ (20°C $\pm$ 5°C) Resolution: 10KHz Receive Bandwidth: 280KHz
Digital TV measurement	Power Level Range: 30dB $\mu$ V ~ 120dB $\mu$ V Accuracy: $\pm 1.5$ dB Resolving Ratio: 0.1 dB Standard Modulation Format: DVB-C / ITU-T 64 / 256QAM Power Support: QAM, QPSK, COFDM Symbol Ratio: 4MS/S ~ 7MS/S Receive Bandwidth: 8MHz (can set) MER: 22dB ~ 39dB ( $\pm$ 2dB) BER: before RS 1E-3 to 1E-9 Star Map Table
Simulate TV test	Level Range: 30 dB $\mu$ V ~ 120 dB $\mu$ V Accuracy: $\pm 1.5$ dB Resolving ratio: 0.1 dB Input Impedance: 75 $\Omega$ Channel Scan Spectrum Scan
Other test	Slope Test Main line voltage test (0-100 VAC / DC $\pm$ 2V)

# IVR-Multitester Series

Optical Power Meter	
Wavelength range(nm)	800~1700
Photosensing material	InGaAs
Power test range(dBm)	-70~+10 or -50~+26
Error range	±5%
Display distinguishability	Linear display: 0.1 % Logarithmic display: 0.01 dBm
Adapters	FC, ST, SC

VFL	
Wavelength	650nm±20nm
Output power	1mw / 3mw / 5mw / 10mw (optional)
Connector	2.5mm universal adapter (SC, FC, ST)
Working mode	CW or 2Hz modulation
Applicable fiber	SM / MM

Cable Tracking	
Test cable type	Network cable, twisted pair cable, telephone line, USB cable, coaxial cable.
Line status test	Determine open or short circuit

## OPM



## VFL



## Tone tracker



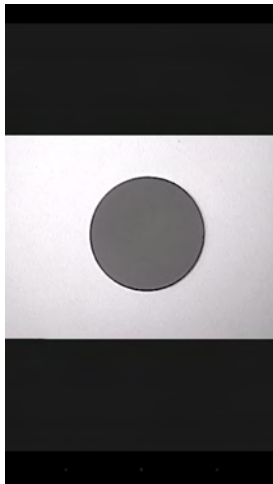
## Optional Modules

IVR-OTDR-BL	Wavelength	Dynamic Range
IVR-OTDR-43BL-PI	1310/1550nm	43/42dB
IVR-OTDR-40BL-PI	1310/1550nm	40/39dB
IVR-OTDR-35BL-PI	1310/1550nm	35/34dB
IVR-OTDR-32BL-PI	1310/1550nm	32/30dB
IVR-OTDR-40BLF-PI	1310/1550/1650nm	40/39/38dB
IVR-OTDR-40BLF-PI	1310/1490/1550nm	40/38/39dB
IVR-OTDR-35BLF-PI	1310/1550/1650nm	35/34/34dB



# IVR-Multitester Series

IVR-M-FP-01 / IVR-M-FP-02	
Magnification	400x
Focus way / Range	Single-way / <3mm
Focus time	2-6 s
Alignment	95%
Output	Digital USB 1.0/2.0
Weight (g)	110
Dimension (mm)	180 x 22 x 56
Light Source / Life time	Coaxial blue LED with 100,000 hrs above
Image Sensor	1/3 Inch, 5V Voltage
Temperature	-10~60 °C
Humidity	90% Relative humidity Tolerance, no condensens



General Specifications	
Display screen	720X1280 TFT, true color LCD, touch screen
Operation system	Built-in Android 4.4 operation system
System	CPU MSM8625 Q, RAM 1G bytes, Flash 8G bytes (3G for ROM and 5G for storage), supports TF memory card (max. capacity 32G)
Power Supply	Rechargeable 3.8V 8200 mAh polymer battery and the max power is 3W.
Camera	8 million pixels post position camera and support auto focus and flash function.
Dimensions	181mm x 87mm x 45mm
Weight	550g

## Packing List

NO.	Packing List	Quantity
1	Multi-service Access Test PDA	1
2	Charger	1
3	Direct Ethernet Line	1
4	USB Data Line	1
5	RJ11 Telephone Line (Optional)	1
6	RJ45 Transfer Box (Optional)	1
7	User Manual	1
8	Portable Carrying Bag	1
9	Hand Belt (Optional)	1
10	Earphone (Optional)	1
11	Receiver (Optional for Cable Tracing Check Line Sequence Function)	1
12	Test Line (Optional for xDSL Test Function)	1

## Accessories



● *InterVRE reserves the right to alter and amend the design, characteristics and specifications without notice or obligation.*

## Sales Contact and Technical Support

Tel: +52 55 84374485 / +52 1 55 45931368 / +52 1 55 14749712

Email: [jessica.garcia@intervre.com](mailto:jessica.garcia@intervre.com) / [heber.vallejo@intervre.com](mailto:heber.vallejo@intervre.com)

Address: Av. Río Consulado 1674, colonia Vallejo, delegación Gustavo A. Madero, Ciudad de México, CP 07870

Web: [www.intervre.com](http://www.intervre.com)