

# IVR-OPM-PON

## PON Optical Power Meter



IVR-OPM-PON power meter target at the FTTx application and maintenance. This power meter is able to simultaneously test and estimate the signals of the voice, data and video. It is an essential and ideal tool for the construction and maintenance of the PON projects.

*Product images are for illustrative purposes only and may differ from the actual product.*

- It can experiment at voice, data and video signal synchronous measurement and display on BPON/EPON/GPON
- Provides simultaneous measurement for three wavelengths (1490nm, 1550nm, 1310nm)
- Used in Burst mode measurement of 1310 nm upstream
- Use the software to connect with PC, setting the threshold, data transfer, and calibration the wavelength
- USB communication port enables data transfer to a PC.1000 measurement items can be saved in IVR-OPM-PON power meter or computer for data review
- With optical power meter module, include 850/1300/1310/1490/1550/1625 (AP/A without 850nm wavelength); With visual fault locator module (AV)
- Optical power meter and VFL with one port (A)
- English display
- Offers up to 10 different threshold sets in total, Three status LEDs represent different optical signal conditions of Pass, Warn and Fail respectively
- 10 minutes Auto-off function can be activated or deactivated
- Key design with high sensitivity to reduce volume and weight

## Specifications

PON Module				
	IVR-OPM-PON	IVR-OPM-PON-A	IVR-OPM-PON-AV	IVR-OPM-PON-AP
<b>1310 upstream measurement</b>				
Pass Zone (nm)	1260 nm ~ 1360 nm			
Measurement Range (dBm)	- 40 dBm ~ + 10 dBm			
Output power (max)	15 dBm			
Isolation @ 1490 / 1550 (dB)	> 40 dB			
Burst mode measurement error	<± 0.5 dB			
<b>1490 downstream measurement</b>				
Pass Zone (nm)	1470 nm ~ 1505 nm			
Measurement Range (dBm)	- 40 dBm ~ + 10 dBm			
Output power (max)	15 dBm			
Isolation @ 1310 / 1550 (dB)	> 40 dB			
<b>1550 downstream measurement</b>				
Pass Zone (nm)	1535 nm ~ 1570 nm			
Measurement Range (dBm)	-40 dBm ~ + 10 dBm			
Output power (max)	25 dBm			
Isolation @ (1310 / 1490 nm)	> 40 dB			
<b>Measurement Accuracy</b>				
Connatural uncertainty (dB)	± 0.5 dB			
Linearity (dB)	± 0.1 dB			
Passing through insertion Loss (dB)	< 1.5 dB			

## Specifications

General Information				
Detector Type	InGaAs			
Optical Connector	FC/SC/ST Interchangeable / 2.5 universal adapter			
Fiber Type	SM 9 / 125 um			
Measurement Unit	dB / dBm / xW			
Resolution (dB)	0.01 dB			
Operation Voltage(V)	DC 3.3 V ~ 5.5 V			
Power Supply	3 pc 1.5V battery			
Continuously Operation time (h)	PON: 90h	PON: 90 h OPM: 100 h VFL: 50 h	PON: 90 h VFL: 50 h	PON: 90 h OPM: 100 h
Operation Temperature (°C)	-10 °C ~ 60°C			
Storage temperature (°C)	-25 °C ~ 70°C			
Weight (Kg)	423 g	425 g	424 g	424 g

Note: The operation time of the battery are for the instrument without back light, if the back light is turned on the operation time will be shorter.

Normal Optical Power Meter			
	IVR-OPM-PON*	IVR-OPM-PON-A	IVR-OPM-PON-AP
<b>Measurement Accuracy</b>			
Connatural uncertainty (dB)	None	±0.5 dB	
Linearity (dB)		±0.1 dB	
Measurement Range (dBm)		-70 dBm ~ + 6 dBm	
<b>General Information</b>			
Measurement Unit	None	dB / dBm	
Resolution (dB)		0.01 dB	
Calibration Wavelength (nm)		1310/1490/1550/1625	1310/1490/1550/1625
Detector Type		InGaAs	
Optical Connector		FC/SC/ST Interchangeable / 2.5 universal adapter	

\*IVR-OPM-PON do not have the OPM module

VFL Module			
	IVR-OPM-PON*	IVR-OPM-PON-A	IVR-OPM-PON-AV
Output power	None	>0.5 mW	
Wavelength		650 nm	
Optical Connector		FC/SC/ST Interchangeable / 2.5 universal adapter	
Fiber Type		SM/MM	

\*IVR-OPM-PON do not have the VFL module

## *Standard Packages*

IVR-OPM-PON Series		
Items	Title	Quantity
1	IVR-OPM-PON tester	1 unit
2	User Manual	1 pc
3	USB	1 pc
4	Soft CD	1 pc
5	1.5 VAA Battery	3pc

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

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