



# PROMAX



# OPTICAL FIBRE EQUIPMENT

MEASURING INSTRUMENTS, EQUIPMENT, AND ACCESSORIES

[www.promaxelectronics.com](http://www.promaxelectronics.com)



## OPTICAL POWER METERS



### ▼ PROLITE-57

#### LOW COST OPTICAL METER

PASS/FAIL MODE WITH ADJUSTABLE MARGINS

Calibrated wavelengths	1310, 1490 and 1550 nm
Measurement margin	-50 to +20 dBm (at 1550 nm)
Data storage	1000 measurement sets PC transferring via USB

### ▼ PROLITE-63B

#### LOW COST OPTICAL POWER METER

SMART AND FUNCTIONAL POWER METER

Calibrated wavelengths	850, 1300, 1310, 1490, 1550 and 1650 nm
Measurement margin	-40 to +10 dBm (at 1550 nm)
Data storage	999 items. PC transferring via USB

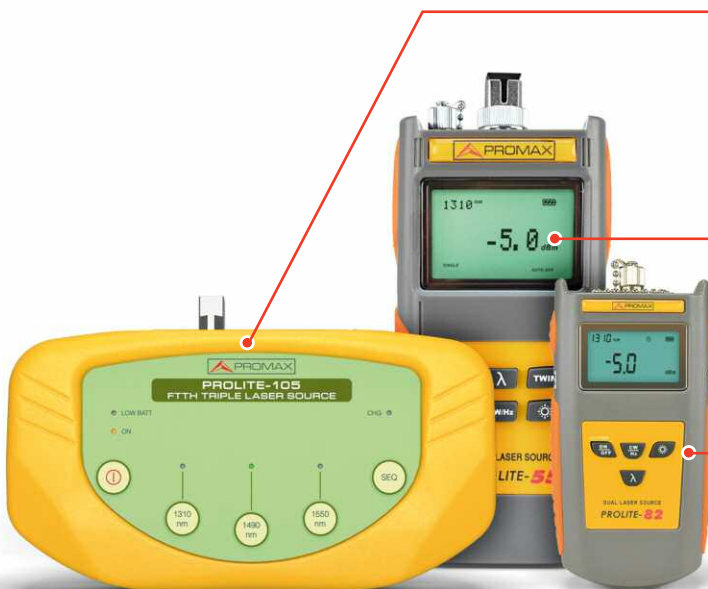
### ▼ PROLITE-67

#### SELECTIVE POWER METER FOR FTTX-XPON

ADVANCED FIBER OPTIC METER FOR SERVICE ACTIVATIONS

ONT input	From 1100 to 1700 nm
OLT/OPM input	1310, 1490 and 1550 nm
Functions	Service activation and OLTs (individualized measurement by wavelength). Attenuation meter. VFL, Datalogger

## LASER LIGHT SOURCES



### ▼ PROLITE-105

### ▼ PROLITE-105 US

#### TRIPLE WAVELENGTH FTTH LASER SOURCE

STANDARD WAVELENGTHS: 1310, 1490, 1550 nm

Operating modes	One, two or three modulated wavelengths or sequential mode
Modulation	270 Hz, 1 kHz, 2 kHz (1310/1490/1550 nm)
Optional	1310, 1550 and 1625 nm wavelengths

### ▼ PROLITE-55

#### LOW COST TRIPLE WAVELENGTH FTTH SOURCE

GENERATES THE STANDARD WAVELENGTHS

Wavelengths	1310, 1490, 1550 nm ( $\pm 20$ nm)
Modulation	270 Hz, 1 kHz, 2 kHz (1310/1490/1550 nm)
Operating modes	Modulated or Constant wavelength

### ▼ PROLITE-82

#### DOUBLE WAVELENGTH LASER SOURCE

FOR MULTIMODE FIBERS

Wavelengths	850, 1300 nm
Selectable output frequencies	270 Hz, 1 kHz, 2 kHz
Emitter type	LD



## POCKET DEVICES



### ▼ PROLITE-11B

#### MINI VISUAL LASER SOURCE

THE MOST ERGONOMIC OPTION FOR DISTANCES UP TO 8 KM

Wavelength	650 nm $\pm$ 10 nm
Output modes	Continuous or modulated wavelength (2 Hz)

### ▼ PROLITE-17

#### POCKET OPTICAL METER

MINI OPTICAL METER WITH RANGE +10 TO -70 dBm

Wavelengths	850, 1300, 1310, 1490, 1550 and 1625 nm
Measurement margin	+10 to -70 dBm (at 1550 nm)

### ▼ FIBERTEST UTP

#### 3-IN-1 OPTICAL POWER METER

POWER METER + VFL + UTP CABLE TESTER

Optical power meter	850, 1300, 1310, 1490, 1550, 1625, 1650 nm
Detected frequencies	270 Hz, 330 Hz, 1 kHz, 2 kHz
Visual fault locator	650 nm $\pm$ 3 nm, 2 mW power (>20 km)
UTP cable tester	Sequential test of each of the 8 wires

## OTDR (OPTICAL REFLECTOMETERS)



### ▼ PROLITE-50B ▼ PROLITE-52 SINGLE MODE

PROLITE-50B	1310 (28 dB) / 1550 nm (20 dB)
PROLITE-52	1625 nm (37 dB)

### ▼ PROLITE-51B SINGLE MODE

Wavelength / Dynamic range	1310 (43 dB) / 1550 (42 dB) / 1625 (42 dB) nm
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### ▼ PROLITE-53B SINGLE MODE / MULTI MODE

Wavelength	850 / 1300 nm (MM), 1310 / 1550 (SM)
Dynamic range	23 / 28 / 38 / 36 dB

### ▼ PROLITE-45 SINGLE MODE WITH OPM & VFL

Wavelength	1310 (24 dB) / 1550 (22 dB) nm
Value-added functions	Power meter, VFL, Multitask, Automatic and Expert modes, EDZ from 1.5 meters

### ▼ PROLITE-44 SINGLE MODE, ULTRACOMPACT

Wavelength	1310 (22 dB) / 1550 (20 dB) nm
Live fiber test	For 1625 nm wavelength

### ▼ IC-091 ▼ IC-092 ▼ IC-093

#### SINGLE MODE/MULTI MODE LOW COST OTDR

IC-091	Multi mode and single mode
Wavelength	850 / 1300 / 1310 / 1550 nm
Dynamic range	29/30 dB (MM), 37/38 dB (SM)
IC-092 (multi mode)	850 (29 dB) / 1300 (30 dB) nm
IC-093	Monomode
Wavelength	1310 / 1550 / 1625 (PON) nm
Dynamic range	37 / 38 / 36 (PON) dB

OPTIONAL INSPECTION PROBE  
FOR IC-091/092/093

x300 PROBE ▼

## FUSION SPLICERS + ACCESSORIES

### SWAPPABLE BATTERIES

TWO SWAPPABLE RECHARGEABLE BATTERIES ARE INCLUDED



### PROLITE-42

#### ULTRA SLIM SPLICER

300 SPLICINGS PER BATTERY CHARGE

Applicable fibers	SM, MM, DS, NZDS Cable indoor and 0.25 mm, 0.9 mm, SC connector (optional)
Fibre aligning method	Core aligning, four motor-driven adjustment
Included accessories	Cleaver, Stripper, AC adapter, Spare electrodes, Fusion protection sleeves, Cooling tray, 2 Removable batteries, Carrying case

### PROLITE-41

#### COMPACT SPLICER

INTERCHANGEABLE HOLDERS.  
SPICE-ON-CONNECTOR (SOC)

Applicable fibers	SM, MM, DS, NZDS
Fibre aligning method	Both core alignment and cladding alignment
Included accessories	AC adapter, Cleaver, Spare electrodes, Cooling tray, Tweezers, Carrying case, Standard stripper, Fibre drop cable stripper, Magnetized clamp heater and spare, Dust blowing pear, Isopropyl alcohol dispenser, Protective sleeves, USB to PC cable

## SPLICING KITS AND ACCESSORIES



### OP-040B

#### FUSION KIT EXTENSION

FOR OWNERS OF A FUSION SPLICER,  
A CLEAVER AND A STRIPPER

AF-004	Isopropyl alcohol cleaning wipes
AF-007	Fibre disposal unit
AF-008	Kevlar scissors
AF-009	Connector cleaner
AF-010	SC/APC pre-polished connectors
AF-011	Mechanical splicer
PROLITE-11B	Pocket-size visual fault locator (VFL)
DC-229	Rugged Suitcase for transport and storage

### PL-10B

#### CONNECTORIZATION KIT

FOR OWNERS OF AN OPTICAL FIBRE  
SPLICER WITH NO ACCESSORIES

AF-001	Optical fibre cleaver
AF-003	Optical fibre stripper
+	
Kit OP-040B	Isopropyl alcohol cleaning wipes Fibre disposal unit Kevlar scissors Connector cleaner SC/APC pre-polished connectors Mechanical splicer Pocket-size VFL Rugged Suitcase for transport

### ADDITIONAL ACCESSORIES

AF-002	Spare electrodes for PROMAX fusion splicers
AF-005	Protective sleeves
AF-006	Spare blades for PROMAX fusion splicing cleavers
AF-012	Fibre microscope
AF-014	Round cable stripper
AF-015	Mid-span fiber access tool

**ALL ITEMS ARE ALSO SOLD SEPARATELY**

# FIBRE OPTICS MEASUREMENT KITS

**PL-675 PROFESSIONAL MEASUREMENT KIT**  
SELECTIVE FTTH POWER METER + TRIPLE FTTH LASER SOURCE



Simplify fiber cabling certification in buildings with this device. It enables a single operator to certify all optical outlets by connecting the **PROLITE-105** light source to the building's fiber optic input, automatically generating pilot signals. The operator then uses the **PROLITE-67** FTTH meter to verify the received optical power at each outlet.

KIT COMPONENTS	
1x Signal generator	PROLITE-105
1x Selective optical power meter	PROLITE-67
1x SC-SC optical adapter	AD-096
2x Optical fibre pigtails	CC-378AA
1x Transport suitcase	0 PG4410

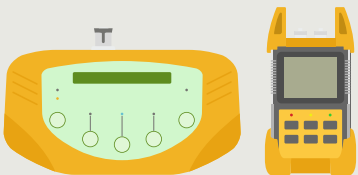
**PL-575 LOW COST MEASUREMENT KIT**  
ENTRY-LEVEL EQUIPMENT: FTTH METER + LIGHT SOURCE



Featuring the **PROLITE-55** light source and the **PROLITE-57** meter. Engineered with a "low cost" approach, these devices offer the essential functions for certifying optical distribution systems. Using the defined measurement procedures, operators can complete the fiber optic certifications jobs. The installer is empowered to take charge of the measurement process.

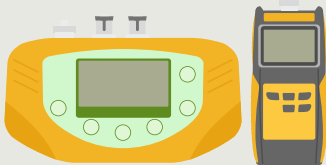
KIT COMPONENTS	
1x Triple laser source	PROLITE-55
1x Selective optical power meter	PROLITE-57
1x SC-SC optical fibre adapter	AD096
2x Optical fibre pigtails	CC-378AA
1x Transport suitcase	0 PG4410

## CERTIFYING AN OPTICAL FIBER INSTALLATION USING PROMAX EQUIPMENT



**FIBER OPTIC BUILDING ENTRY**

Connect the **LASER** generator to the building's fiber optic entry point. It will produce either a single user-selected wavelength (**PROLITE-55**) or it will cycle through all three optical wavelengths (**PROLITE-105**).



**USER OUTLETS**

The **FTTH** meter connected to the final outlets identifies the wavelength (**PROLITE-57**) or all three wavelengths simultaneously (**PROLITE-67**) and it determines the received power and losses at each outlet. It also indicates if the losses are within the acceptable range according to the network type.



## CABLE CERTIFIERS



▶ IC-019D ▶ IC-088D ▶ IC-019L

### CAT8 CERTIFIERS UP TO 3 GHz

COPPER AND OPTICAL FIBER (SINGLE- AND MULTI-MODE)  
WITH REPLACEABLE ADAPTERS

Category

IC-019L  
IC-019D  
IC-088D

Features

CAT-6a

CAT-6a (upgradable to CAT8)  
CAT8.1 / CAT8.2

Ultra fast tests (7 seconds).  
Optional optical fibre

▶ IC-019 ICT

### NETWORKS CERTIFIER FOR FTTH

A KIT INCLUDING THE TEST EQUIPMENT AND  
THE ESSENTIAL ADAPTERS FOR FTTH SERVICE ACTIVATION

Category

Features

CAT-6/6a. Includes CAT6 adapters

Customizable PDF measurement reports  
Optional optical fibre

▶ IC-019C

### CAT6A CERTIFIER FOR COPPER AND FIBER

Category

Features

CAT-6A.

Includes visual fault locator (VFL)  
Available smartphone APP  
Simple and advanced measurement reports

## LAN TESTERS



▶ IC-082

### COPPER, FIBER OPTICS AND WIFI NETWORKS

MEASUREMENT DEVICE FOR ACTIVE OR PASSIVE NETWORKS  
IN COPPER AND SINGLE-MODE OR MULTI-MODE FIBER

It performs fault checks, accessibility tests, traffic statistics, mappings, PoE and VoIP measurements, etc. It supports IPv6 and PoE+ networks. The loop mode allows it to act as a remote loop unit for traffic testing in WAN networks. Optional fiber adapters (single-mode and multi-mode).

▶ IC-081C

### COPPER, OPTICAL FIBER AND INDUSTRIAL ETHERNET TESTER

TESTING IN ACTIVE AND PASSIVE NETWORKS  
WITHOUT INTERRUPTING NETWORK TRAFFIC

IPv6 compatible. Exports data in PDF via USB or WiFi. Auto-configuration for fiber and Ethernet. Self-test mode. Industrial Ethernet (PROFINET) support allows obtaining node information via SNMP and DCP without interrupting traffic.

▶ IC-081


### VOICE AND DATA TESTER FOR COPPER AND FIBER NETWORKS

OPTIONAL OPTICAL FIBRE ADAPTERS FOR SINGLE-MODE  
AND MULTI-MODE FIBRES


This is an advanced and versatile wire mapping tool, designed to be fully compatible with PoE, IPv6, and 802.1x networks. It integrates the sophisticated features of several dedicated cable analyzers into a single, comprehensive unit.




TV & SPECTRUM ANALYZERS WITH FIBER OPTIC EXPANSION




**HEVC**  
H.265 HEVC analyzer and decoder




**Wi-Fi**  
Wi-Fi networks analyzer




**T2-MI**  
T2-MI signal measurements




**TS**  
Transport Stream recorder and analyzer




**WEBSERVER**  
Full remote control (webControl)




**DAB+**  
Digital Audio Broadcast radio




**Optical Power Meter and RF converter**




**CI Slot for encrypted channels**




**DSS**  
Digital Channel Stacking Switch LNB




**GPS**  
GPS for signal coverage analysis



**IPTV**  
Extended IPTV functions



**6 GHz**  
Up to 6 GHz spectrum analyzer



**4K**  
Ultra HD image decoding and display

RANGER NEO EVOLUTIONARY FEATURES SPECTRUM ANALYZERS



SELECTIVE OPTICAL POWER METER AND OPTIONAL OPTICAL-TO-RF CONVERTER

<b>RANGER Neo+</b> Digital standards	DVB-T/T2/T2 Lite, DVB-C/C2, DVB-S/S2, DVB-S2 Multistream, ISDB-T/Tb, DSS, ACM, VCM, CCM
Inputs and outputs Functions (excerpt)	RF, HDMI, IP (remote control), V/A, 2xUSB Constellation, LTE, Dynamic echoes, PLS, Spectrum analyzer, FM RDS, Beacon for SNG/VSAT, WiFi, LTE, OTT, Service recording, Merogram, Spectrogram, Monitoring, Remote control, MER by carrier, Shoulders, SCAN, TILT
<b>RANGER Neo 2</b> Digital standards Inputs and outputs Functions	Includes all Neo+ features MPEG-TS ASI-TS, IPTV multicast, Common Interface TS Recording/Analyzer, IPTV multicast
<b>RANGER Neo 3</b> Digital standards Inputs and outputs Functions	Includes all Neo 2 features DVB-T2-MI 1 pps Network delay (DVB), DVB-T2-MI analysis

ATLAS NG UNIVERSAL BROADCAST ANALYZERS



INCLUDES POWER METER  
OPTION: SELECTIVE METER + OPTICAL-RF CONVERTER

Digital standards Radio and Terrestrial TV	DVB-T/T2 (T2-base, T2-lite), ATSC 1.0/3.0, ISDB-T/Tb (full seg / 1seg), DAB, DAB+
Digital cable Digital satellite Analog	DVB-C/C2, J.83 annex-B, 16/64/256-QAM DVB-S/S2/S2x, DSS, QPSK Terrestrial analog, FM RDS
Inputs and outputs	RF, ASI-SDI, SPF+, RJ45, A/V, HDMI, 2xUSB, Optical, 1 PPS, IPTV, Audio, Common Interface
Functions (excerpt)	Constellation, LTE, Dynamic echoes, PLS, Spectrum analyzer, 4K decoder, FM RDS, Beacon for SNG/VSAT, WiFi, LTE, OTT, Service recording, Merogram, Spectrogram, Remote control, MER by carrier, GPS for drive test, SCAN, TILT, IPTV multicast measurements and decoding, Shoulders, Network delay, DVB-T2-MI, Eye diagram (SDI), ALP recording, Carrier frequency drift test

TV EXPLORER NG MULTISTANDARD TV ANALYZER WITH NATIVE 4K



INCLUDES AN OPTICAL POWER METER  
OPTIONAL: FTTH SELECTIVE POWER METER

Digital standards Terrestrial TV	DVB-T/T2 (T2-base, T2-lite), ISDB-T/Tb (ATSC 1.0 and ATSC 3.0 optional)
Radio Digital cable Digital satellite Analog	FM RDS, DAB, DAB+ (optional) DVB-C/C2, J.83 annex-B, 16/64/256-QAM DVB-S/S2/S2x, DSS, QPSK Terrestrial analog
Inputs and outputs	RF, Audio/Video, HDMI™, 2xUSB, RJ45, Stereo audio output, Optical FC/APC
Functions (excerpt)	Constellation, Dynamic echoes, PLS, Ultra fast spectrum, 4K, MAX/MIN Hold, Screenshots, Datalogger, Measurement reports, WiFi, Remote control, MER by carrier, Drive test analysis with GPS (optional), TS recording, ALP recording

# TV & SPECTRUM ANALYZERS WITH FIBER OPTIC EXPANSION



✓ Included

● Optional

	ATLAS	EXPLORER TV NG	RANGER Neo				HD RANGER UltraLite & Eco
			3	2	2	Lite	
4K detection	✓	✓	✓	✓	✓	✓	✓
4K decoder	✓	✓					
HEVC H.265 decoder + 4K Frame Grabber	✓		✓	✓	✓	✓	
H.265 identifier	✓		✓	✓	✓	✓	Eco
Información de HbbTV	✓	✓	✓	✓	✓		✓
H.265 10 bit	✓	✓					
Touch screen	✓		✓	✓	✓	✓	
Multitouch screen	✓	✓					
Wide band LNB Compatibility (wbLNB)	✓		✓	✓	✓	✓	
2.4 GHz Wi-Fi analyzer + 1.8 GHz LTE	✓		✓	✓	✓	✓	
OTT	✓		✓	✓	✓	✓	
HDMI™ output	✓	✓	✓	✓	✓	✓	
Video/Audio input	✓	✓	✓	✓	✓	✓	
Battery time	> 4 h	> 4 h	> 4 h	> 4 h	> 4 h	> 2 h	> 2 h
Resolution filters 200 kHz, 1 MHz	✓		✓	✓	✓		UltraLite
Resolution filter 100 kHz	✓	✓	✓	✓	✓		UltraLite
Resolution filters 2, 10, 20, 30, 40 kHz	✓		✓	✓			
Echoes analysis	✓	✓	✓	DVB-T/T2/C2	DVB-T/T2/C2	DVB-T/T2/C2	✓
Constellation diagram	✓	✓	✓	✓	✓	✓	✓
webControl and Video/Audio Streaming	✓	✓	✓	✓	✓		
Spectrogram	✓	✓	✓	✓	✓		
DVB-T/T2: Merogram and MER by carrier	✓	✓	✓	✓	✓		
SCAN + TILT	✓		✓	✓	✓		
IPTV analyzer	✓		✓	✓			
IPTV VLAN, Multistream multicast/unicast analysis	✓						
TS-ASI I/O and recording, TS analysis and recording	✓		✓	✓			
Common Interface (encrypted channels)	✓		✓	✓			
Shoulder attenuation measurement	✓		✓	✓	✓		
T2-MI and Network delay Margin (DVB)	✓		✓				
GPS for drive test	✓	●	✓	●	●		
Signal monitoring	✓		✓	✓	✓		
DAB/DAB+ channel plan	✓	✓	✓	✓	✓	✓	✓
Advanced DAB/DAB+ analyzer	●	●	●	●	●		
Advanced FM radio analyzer	●	●	●	●	●		
Wi-Fi 5 GHz			●	●	●		
LTE 2.6 GHz			●	●	●		
6 GHz RF input			●	●	●		
Optical power meter	●	●	●	●	●		
Optical to RF converter	●		●	●	●		
4G/5G cellular measurements	●						
Optical ASI and SDI output	●						
Optical ASI and SDI input	●						
ATSC	✓	●		ATSC version	ATSC version	ATSC version	
ATSC 3.0	✓	●					
PSIP analysis and Closed Caption support	✓			ATSC version			
ISDB-T standard + QAM annex B	✓	✓	✓	✓	✓	✓	
DVB-S/S2 + DSS + ACM/VCM + DVB-T/T2/C/C2	✓	✓	✓	✓	✓	✓	✓
DVB-S2x	✓	✓					
SDI analyzer	✓						
Jitter measurement	✓						
New spectrum analyzer (up to 6 GHz, 4 markers)	✓						
Basic Optical Fiber features	✓	✓					
Carrier frequency drift test	✓						
Soft carrying case	✓	✓	✓	✓	✓	✓	✓
Hard transport case	✓		✓	✓	✓		