

# 930XC OTDR

## OPTICAL TIME-DOMAIN REFLECTOMETER



**FAST. ACCURATE. RELIABLE.**

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**GREENLEE**<sup>®</sup>  
COMMUNICATIONS

# ALL IN ONE OTDR SOLUTION

## OPM, VFL, AND SLS STANDARD ON ALL 930XC MODELS

### FAST.

- **One button test functions.** Start measurements with the push of one button.
- **Autotest.** Automatically sets test parameters for optimum test results.
- **Live fiber testing.\*** Tests fibers without disrupting live services.

### ACCURATE.

- **Graphical interface.** Easy to read, even in low or bright lighting conditions.
- **Up to 38 dB dynamic range.** Probe longer cables and see smaller reflections.
- **Measure lengths and defects.** Quickly locates faults.

### RELIABLE.

- **Cable acceptance reports.** Generate customized reports that include trace signature and fiber events.
- **Long life battery.** Work longer without recharge – up to 8 hours continuous use.
- **Rugged construction.** Drop-tested from 2m, impact resistant and built to perform (GR-196 certified).
- **BellCore standard** required by major telcos.
  - Operational and within specification after a simulated dust storm.
  - EMI resistant as per GR-1089.
  - Rain resistant with no direct paths of entry.

CABLE ACCEPTANCE | FAULT LOCATING | FIBER TESTING

\* 930XC-30F only.



# 930XC OTDR



PROTECTIVE RUBBER BOOT

MENU FUNCTIONS for settings and trace store/recall.

LARGE COLOR LCD DISPLAY

RUN/STOP BUTTON True single button testing.

SEALED MEMBRANE PANEL



DC CHARGER PORT

OPTICAL POWER METER

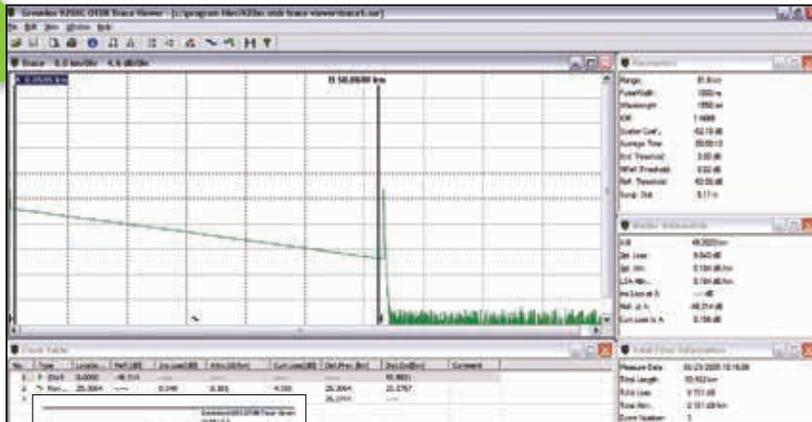
USB PORT

VISUAL FAULT LOCATOR

OTDR PORT

OTDR 1625nm live out of band testing port

# OTDR CABLE ACCEPTANCE REPORT GENERATION



## OTDR TRACE VIEWER

- View and measure all trace files stored on the 930XC
- Bellcore Standard OTDR Report (SOR) file storage format
- Display trace, fiber events and measurement information on single screen
- Display measurement settings used to acquire trace

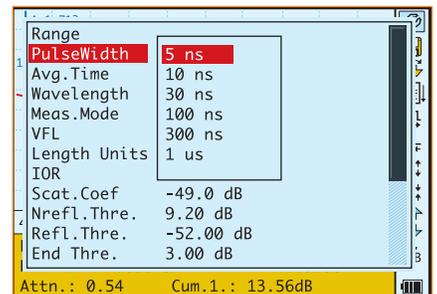
## CABLE ACCEPTANCE REPORT

- Generate professional OTDR cable acceptance reports
- Cable acceptance report can be customized by user
- Trace signature and fiber events are printed on each report

# SPECIFICATIONS

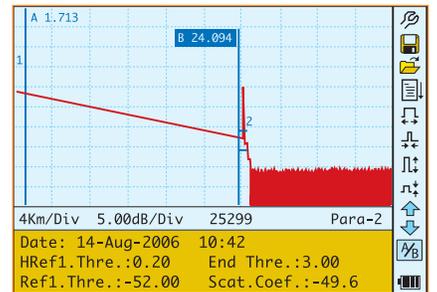
MODEL	930XC-20C	930XC-30F	930XC-30P	930XC-20M
Wavelength (± 20nm)	1310/1550	1310/1550/1625	1310/1490/1550	850/1300
Dynamic Range (dB)	35	38/37/37	38/37/37	21/24
Event Deadzone (m)	1.8	1.5	2.5	1.8
Attenuation Deadzone (m)	10	10	14	8
Pulsewidth	5, 10, 30, 100, 300, 1us, 2.5us, 10us, 20us			12, 30, 100, 275, 1us/30, 100, 275, 1us, 2us
Selectable Ranges (km)	0.3, 1.3, 2.5, 5, 10, 20, 40, 80, 120, 160, 240			0.1, 0.3, 0.5, 1.3, 2.5, 5, 10/0.1, 0.3, 0.5, 1.3, 2.5, 5, 10, 20, 40, 80
Average Time	15s/30s/1 min/2 min/3 min			
Distance Measurement Accuracy	±(1m + 5 X 105 x distance + sampling space)			
Connector Type	PC or APC (interchangeable FC, SC, ST)			
Reflection Detect Accuracy	±4 dB			
Attenuation Detect Accuracy	±0.05 dB/dB			
Measurement Data Storage	1,000 test curves			
Data Transmission	RS-232/USB port			
Visual Fault Locator (VFL)	3mW; 650nm			
Optical Power Meter (OPM)	InGaAs			
OPM Wavelengths	850, 1300, 1310, 1490, 1550, 1625nm			
OPM Range	+6 to -70dBm (+6 to -60dBm 850nm)			
OPM Display resolution	0.01dB			
OPM MOD Identification	1kHz, 2kHz			
Stabilized laser Source (SLS)	Wavelength same as selected in OTDR mode ≤ -7dBm			
Power Supply	NiMH chargeable battery/AC adapter			
Battery Life	Support over 8 hours operating on one charge or over 20 hours standby			
Operating Temperature	-10° to 50° C			
Storage Temperature	-20° to 60° C			
Relative Humidity	0 to 95% (non-condensing)			
Weight	1.9 lbs. (0.87 kg)			
Dimensions	7.7" H x 3.9" W x 2.4" L (196mm x 100mm x 64mm)			
Compliance	BelCore GR196, CE, FCC, UL, RoHS, WEEE			
Fiber Analysis Software	Version 3.2			

# OTDR OPERATION MODES



## INSTRUMENT SETUP

- Auto mode selects optimal distance range and pulsewidth
- All settings selected through easy to use menu selections
- Short pulsewidth (5ns) available for high-resolution measurements
- Color and high intensity monochrome settings for bright sunlight conditions
- Complete control of fiber analysis settings for auto measurement of splice and end of fiber



## OTDR TRACE

- View and measure test results
- One button measurement of distance and loss information

### Event View Mode

Page through each loss event for location in (meters/miles and feet) and loss in dB

### Manual Measurement Mode

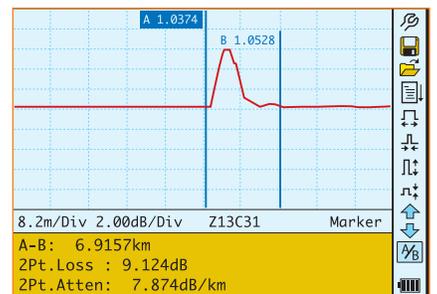
Perform manual measurement with A and B cursor for distance, loss and reflectance measurements

### Measurement Setup

View settings used to acquire measurement

### Fiber Analysis Software

View settings used for auto measurement of events



## HI-RESOLUTION EVENT VIEWING

- Easy to view and measure in high-resolution mode
- One button to jump to high-resolution view
- One button jump back to entire trace view
- 0.1 meter sampling resolution
- Active cursor snaps to the next event in the fiber analysis table

FOR PRODUCT VIDEOS, DEMONSTRATIONS  
AND MORE, SCAN THIS QR CODE OR VISIT:



[www.youtube.com/GreenleeDEMO](http://www.youtube.com/GreenleeDEMO)



## EACH MODEL COMES WITH:

- Instrument
- Rechargeable battery
- OTDR Trace Viewer software
- Installation disk
- Data transfer cable
- AC adapter
- Protective cover
- Carrying case
- Warranty card
- Certificate of calibration

Default language is English and Spanish. Alternate languages of Russian, Portuguese, and German available upon request.



## ORDERING INFORMATION

CAT NO.	UPC NO.	DESCRIPTION
<b>DUAL WAVELENGTH SINGLE MODE OTDR</b>		
930XC-20C-UPC-FC	02610	OTDR, SM DUAL WAVE, 13/15, OPM, SLS, UPC FC
930XC-20C-UPC-SC	02609	OTDR, SM DUAL WAVE, 13/15, OPM, SLS, UPC SC
930XC-20C-UPC-ST	02611	OTDR, SM DUAL WAVE, 13/15, OPM, SLS, UPC ST
930XC-20C-APC-FC	02613	OTDR, SM DUAL WAVE, 13/15, OPM, SLS, APC FC
930XC-20C-APC-SC	02612	OTDR, SM DUAL WAVE, 13/15, OPM, SLS, APC SC
<b>TRIPLE WAVELENGTH SINGLE MODE OTDR</b>		
930XC-30P-UPC-FC	02615	OTDR, SM TRIPLE PON, 13/14/15, OPM, SLS, UPC FC
930XC-30P-UPC-SC	02614	OTDR, SM TRIPLE PON, 13/14/15, OPM, SLS, UPC SC
930XC-30P-UPC-ST	02616	OTDR, SM TRIPLE PON, 13/14/15, OPM, SLS, UPC ST
930XC-30P-APC-FC	02618	OTDR, SM TRIPLE PON, 13/14/15, OPM, SLS, APC FC
930XC-30P-APC-SC	02617	OTDR, SM TRIPLE PON, 13/14/15, OPM, SLS, APC SC
<b>TRIPLE WAVELENGTH SINGLE MODE FILTERED OTDRS</b>		
930XC-30F-UPC-FC	02620	OTDR, SM TRIPLE FILT, 13/15/16, OPM, SLS, UPC FC
930XC-30F-UPC-SC	02619	OTDR, SM TRIPLE FILT, 13/15/16, OPM, SLS, UPC SC
930XC-30F-UPC-ST	02621	OTDR, SM TRIPLE FILT, 13/15/16, OPM, SLS, UPC ST
930XC-30F-APC-FC	02626	OTDR, SM TRIPLE FILT, 13/15/16, OPM, SLS, APC FC
930XC-30F-APC-SC	02623	OTDR, SM TRIPLE FILT, 13/15/16, OPM, SLS, APC SC

CAT NO.	UPC NO.	DESCRIPTION
<b>MULTI-MODE OTDR</b>		
930XC-20M-UPC-FC	02607	OTDR, MM DUAL WAVE, 85/13, OPM, SLS, UPC FC
930XC-20M-UPC-SC	02606	OTDR, MM DUAL WAVE, 85/13, OPM, SLS, UPC SC
930XC-20M-UPC-ST	02608	OTDR, MM DUAL WAVE, 85/13, OPM, SLS, UPC ST
<b>ACCESSORIES</b>		
AC-ADPT-20-UNI	25691	Universal Power Supply
AC-CONN-FC-L2	20996	FC Connector (For UPC & APC)
AC-CONN-SC-L2	20998	SC Connector (For UPC & APC)
AC-CONN-ST-L2	20997	ST Connector (For UPC Only)
1155-0526	10582	Vehicle Adapter (6FT, 5.5 OD, 2.1M)
20988	20988	Soft Carry Case
20989	20989	USB Cable For OTDR
20990	20990	RS-232 Cable
20999	20999	NiMH Battery (9.6V)
946	60571	Cleaning Wand (10/PK)
948	60692	ReelCleaner™ Connector Cleaning System



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