

KL-6300 FiberMASTER OTDR



- Maximum dynamic range up to 45dB
- 0.8 m event dead zone, 2.5 m attenuation dead zone
- Intelligent link diagram, support Pass & Fail judgment
- iOLA, one-click Intelligent testing of passive PON networks

FiberMASTER OTDR

The KL-6300 offers superior performance thanks to a completely new algorithm, a large capacity battery and a 7in user-friendly screen. Ensure measurement quality and improve work efficiency, benefits include:

Full range selection

- Wide dynamic range 30-45dB
- Up to 9 OTDR models for selection
- Five optional modules to be customized

Advanced trace analysis

- Multi-trace analysis
- Bidirectional testing
- 4-points test

Not just OTDR

- VNC/GPS/WIFI
- OPM (Optical power meter module)
- SLS (Stabilized light source module)
- VFL (Visual fault locator module)
- RJ45 (Network Test module)
- FIP (Fiber connector end-face inspection module + analysis function)
- *FIP module can first perform connector end-face detection and then OTDR link testing

Operability

- 7-inch color LCD touch screen
- Generate PDF reports quickly
- F/P analytical judgment function
- Smart map to analyze links graphically

Strong reliability

- Up to 12h battery life
- Minimum sampling resolution 0.04m
- Maximum sampling points 250,000





JILONG KL-6300 comes with an iLOA test function that enables complex front-line test work with less-experience, to support a variety of applications, including installation and maintenance (I&M) of mainline fiber (core network, metropolitan area network, mobile forward, mobile backhaul) and troubleshooting of access networks and FTTx. And combines industry-leading OTDR technology with OPM, VFL, SLS, network testing and fiber end inspection capabilities in one powerful handheld device.

JILONG KL-6300 OTDR Models

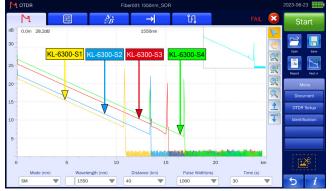
Fiber type	Link ty	pe	Test application						
	Area	PON	Installation (measurement of live fibers and dark fibers)						
			Model/Description	Wavelength(nm) Dynamic range(dB)					
	Access network	1x32	KL-6300-S1 (Entry-level model)	1310 1550 32 30					
CN.	Acces network / Metropolitan area network	1x64	KL-6300-S2 (basic model)	1310 1550 35 33					
SM			KL-6300-P1 (3 wavelengths + live model)	1310 1550 1625 32 30 28					
			KL-6300-P2 (High dynamic range wavelengths + live model)	1310 1550 1625 38 36 34					
	Metropolitan network / Core network	1x128	KL-6300-S3 (Standard model)	1310 1550 40 38					
			KL-6300-S4 (High dynamic model)	1310 1550 42 40					
			KL-6300-S5 (Super-high dynamic model)	1310 1550 45 43					
MM	LAN		KL-6300-M (MM model)	850 1300 20 22					
ММ			KL-6300-MS (SM&MM model)	850 1300 ₊ 1310 1550 ₂₀ 22 + 32 30					

KL-6300-S1/S2/S3/S4/S5

KL-6300-P1/P2

Dual wavelength module 1310/1550nm, used in fiber installations

Maintenance models for real-time communication lines





1μ s Pulse width trace

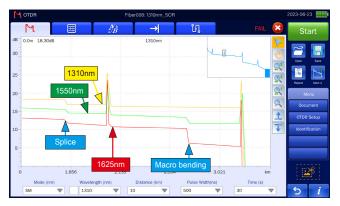
Real-time communication line trace

KL-6300-MS

KL-6300-M

SM&MM model

MM model





A trace with a macro bend

MM fiber trace



iOLA (Hawkeye)

OTDR faces a series of challenges:



Pass

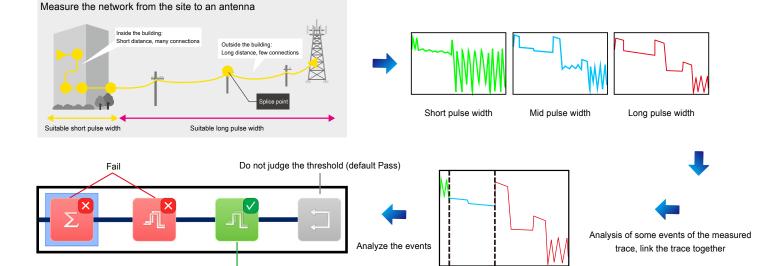






To address these challenges, JILONG has developed a better way to test fiber links: iOLA (Hawkeye) is an OTDR-based application designed to simplify the OTDR testing process by eliminating the need to configure parameters, analyze and interpret multiple complex OTDR curves. It adopts advanced algorithm, can dynamically define the test parameters, and according to the measured network to determine the appropriate curve acquisition times; Multiple pulse widths at multiple wavelengths can also be correlated to locate and identify faults with very high resolution - all at the touch of a button.

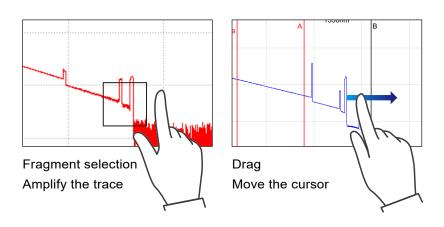
Working principle





7.0 inch multi-touch capacitive touch screen

It supports new gestures to amplification. The screen capture color is clear. The interface design is simple and clear.

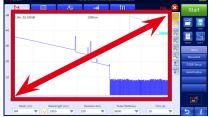




Expand the trace display area

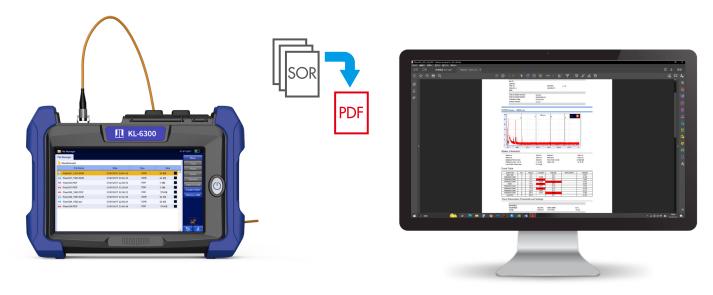
By tapping the icon , you can enlarge the trace display area to view more detail.





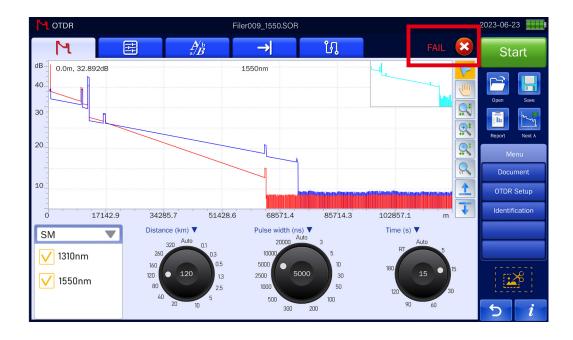
Quickly generate the PDF report

Built -in post -processing software to generate reports of PDF format.



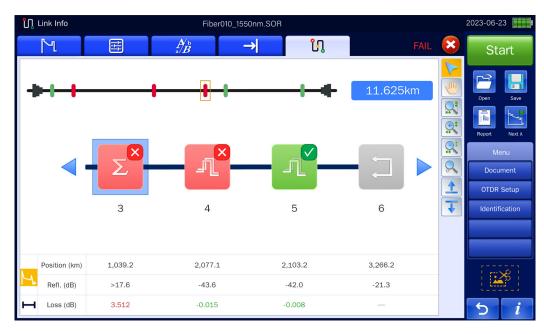
Pass & Fail analysis function

Automatically perform Pass/Fail judgments for each event based on pre-specified thresholds. The measurement results can be viewed through the result display items (As shown in the red box on the following side).



Smart map analyze links graphically

With Smart Map, users only need to press one button to execute measurement, detect network events and execute Pass&Fail judgment. It includes a simple icon view that facilitates the location and type of the event, and automatically executes the Pass&Fail judgment of each event based on the pre -specified threshold.



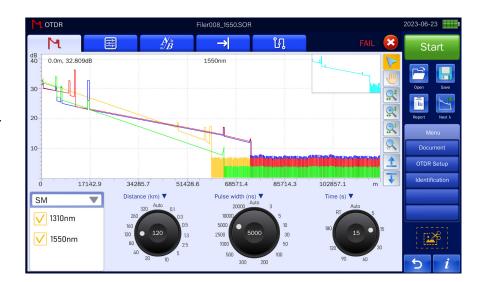


Advanced trace analysis

The OTDR master module is capable of performing advanced analysis of measured data

Multi-trace analysis

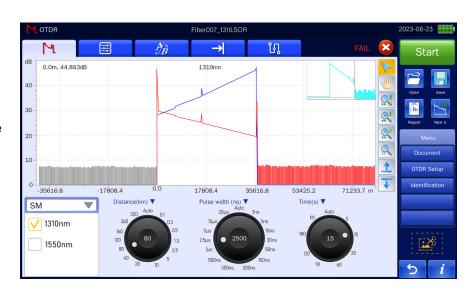
View multi -trace, can view up to 4 traces at the same time, comprehensive analysis, and the results are more accurate.



Bidirectional testing

Averaging values obtained from opposite directions provides a more accurate quantification of losses.

Bidirectional testing is a great way to improve test integrity in long-distance applications.



4-points testing

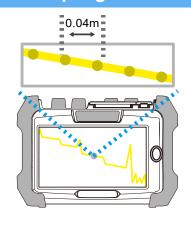
Real-time monitoring of splicing and insertion loss, less noise impact, more accurate test results.

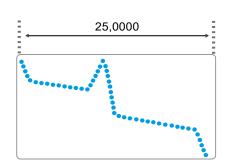




Minimum sampling resolution 0.04m

Maximum sampling points: 250,000





Battery working time: 12 hours



Rubber sheath design: effective shock absorption, anti-fall and anti-bump



Not just OTDR

OPM module (built-in)

Used to measure absolute optical power or the relative loss of optical power through a section of fiber link



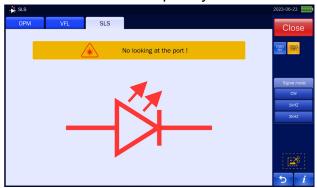
VFL module (built-in)

Luminous stability, strong light source, strong penetration; Two light source modes - steady on, flashing



SLS module (built-in)

Output stable continuous signal, used in combination with an OPM to measure optical loss in fiber optic systems



Network test module (built-in)

Network sequencing + Network ranging + Network hunting (optional)



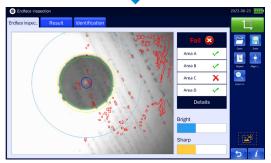
Fiber connector inspection module (built-in)

The fiber connector end-face inspection module can visualize the surface of the connector, and combine with handle probe(optional) can automatically analyze the scratches and dust on the fiber connector, save the surface image and judge the result. And offer a PDF report



*FIP module can first perform connector end-face detection and then OTDR link testing



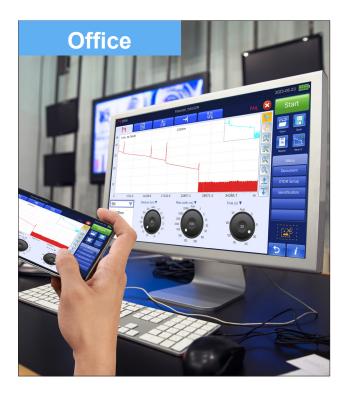


GPS (module optional)



WIFI remote control (built-in)

VNC remote control function, using mobile phones or computers online remote operation OTDR easily solve the remote work, can simultaneously take into account multiple room testing, greatly improve efficiency.

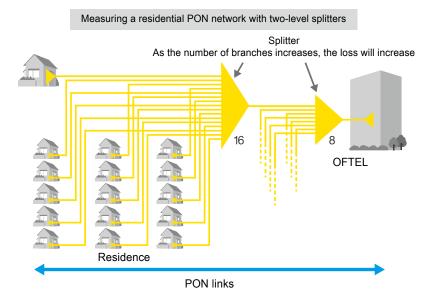






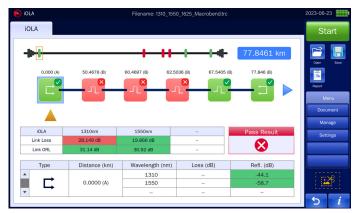
PON optimization

Quickly, easily and correctly measure networks with large losses, such as PON links. In PON mode, simply select the route configuration to be measured on the screen, and OTDR will automatically determine the appropriate measurement conditions and set the optimal value, even after the optical splitter caused large losses, the KL-6300 OTDR can ensure high trace quality.





Set the parameters of the splitter to be measured in PON mode





Ultra-high signal-to-noise ratio measurement



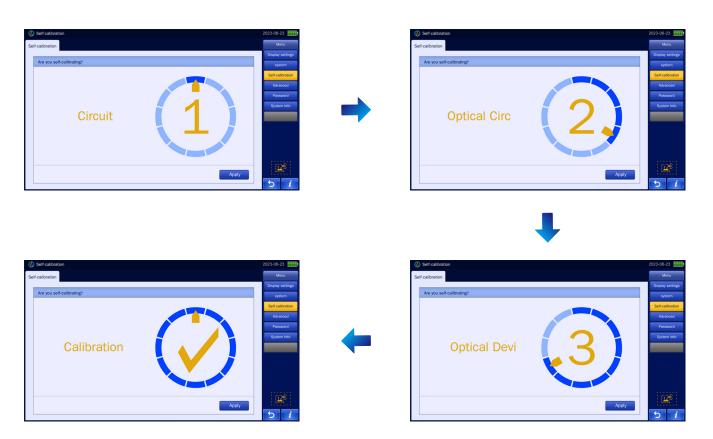
Measuring total 1:128 splitter



Additional function

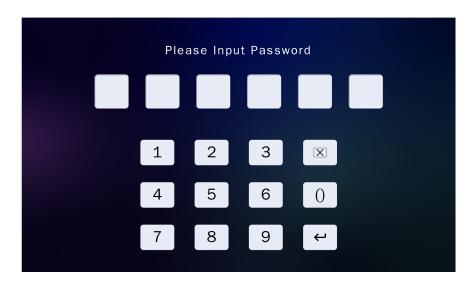
Self calibration

Shorten maintenance time and reduce maintenance costs

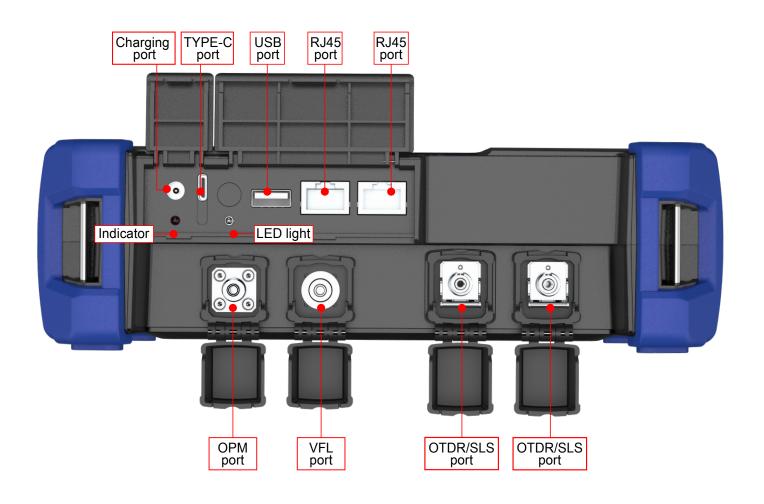


Power-on password

Acquire and use OTDR by means of leasing, paying in installments according to the agreed time and amount



Appearance







OTDR module

Mod	el	KL-6300-S1	KL-6300-S2	KL-6300-S3	KL-6300-S4	KL-6300-S5	KL-6300-P1	KL-6300-P2	KL-6300-M	KL-6300-MS	
Waveler	ngth (nm)	1310/1550	1310/1550	1310/1550	1310/1550	1310/1550	PON 1310/1550/1	625 (built-in filter)	850/1300	850/1300+1310/1550	
Dynamic	crange (dB)	32/30	35/33	40/38	42/40	45/43	32/30/28	38/36/34	20/22	20/22 32/30	
Number	of optical port	1	1	1	1	1	2	2	1	2	
Event de	ead zone★① (m)	0.8	0.8	0.8	0.8	0.8	1	1	1.5	SM≤1; MM≤1.5	
Attenuat	tion dead zone★② (m)	3	3	2.5	2.5	2.5	3	3	5	SM≤3.5; MM≤5	
Multi-fib	er Measurement				√				√	√	
Multi-pu	lse Measurement	t √						×	√		
Spliters	Measurement	Max 1:32 Max 1:64 Max 1:128 Max 1:32 Max 1:64						Max 1:64	×	Max 1:32	
Applicat	ole fiber	SM (ITU-T G.652)									
Distance	e range (km)	0.1, 0.3, 0.5, 1.3, 2.5 , 5, 10 , 20 , 40 , 80 , 120 ,160 , 260, 320									
Pulse w	idth (ns)		3 , 5 , 10 , 30 , 50 , 100 , 200 , 300 , 500, 1000 , 2500 , 5000, 10000 , 20000								
Number	of sampling points		Max 250000								
Samplin	g resolution		Min 0.04m								
Distance	e measurement accuracy			±(0.	75 m + Measureme	nt distance × 2 × 10	-5 + Sampling resol	ution)			
Loss me	easurement accuracy					±0.03 dB/dB					
Return I	oss measurement accuracy					±2 dB					
Optica	l Power Meter Module	(Built-in)				\checkmark					
	Wavelength					800 ~ 1650nm					
	Measure range	-70 ~ +6dBm									
ОРМ	Measure accuracy		< (±0.2dB or ±5%)								
	Display resolution	0.01dB									
	Optical input port				2.5mm Univ	ersal ferrule for FC,	SC,ST/UPC				
Stabili	zed Light Source Modu	Jle (Built-in)				\checkmark					
	Wavelength (nm)		1310/15	550			1310/15	550/1625	850/1300	850/1300+1310/1550	
	Output power					≥-10dBm					
SLS	Modulation mode	CW, 270 Hz, 1 kHz, 2 kHz									
	Laser class	Class 1M or Class 1									
	Optical input port	OTDR port									
Visual	Fault Locator Module	t Locator Module (Built-in) √									
	Wavelength (nm) 650±10nm										
	Output power	10mW									
VFL	Modulation mode	CW, CHOP (2 Hz)									
	Laser class	Class 3R									
	Optical input port	2.5 mm Universal ferrule type for FC,SC,ST									
Fiber I	nspection Probe (Built-in)	Optional									
	Pass / Fail	√ ·									
	Magnification	400X									
FIP	Resolution(um)	≥1.0									
	Electrical interface	USB2.0									
	Optical Connector	FC/UPC,SC/UPC,ST/UPC									
	CMOS size 1/3 inch										
RJ45 N	Networks Test (Built-in)	V									
	Applicable cable					CAT5, CAT6					
RJ45	Distance of Cable CollationI	300m									
	Distance of emitting signal	300m									
GPS N	lodule (Built-in)	Optional									
GPS	Location accuracy < 50m										
5.0	Real-time Monitoring	support									
WIFI N	lodule (Built-in)					\checkmark					
\A#F:	Data transmission					V					
WIFI	Remote Control	√									



General Specifications					
Link Map	√				
Pass/Fail judgment	\checkmark				
Distance unit	m, km, mile, kf				
PC Analysis Software	√ ·				
Languages	English, Español, Chinese, Português, Français, Русский, ภาษาไทย, 한국어				
Optical connector	FC/UPC (SC/UPC/APC \ LC/UPC/APC \ FC/APC Optional)				
Display	7-inch touch screen (Resolution: 1024 × 600)				
Port	Charge port × 2, 12V - 2.5A & Type C				
Operating temperature	'-10 ~ 50°C (0 ~ 40°C when AC adapter is being used. 0 to 35°C when battery is be charged)				
Storage temperature	-20 to 60°C				
Altitude	4000 m				
Humidity	0 to 90% RH (20 to 90% with 739874 AC adapter, non-condensing)				
Power requirements	100 - 240V AC, 50/60Hz (AC adapter)				
Battery	7.4V,10500mAh,≥77Wh				
LED Light illumination	>15000mcd				
Operating time ★③	12 hours				
Data storage	Internal storage: ≥10000 traces, External storage: USB memory				
Dimensions	232 mm (W) × 161 mm (H) × 70 mm (D)				
Weight	1.6 kg (including internal battery and protectors, excluding OTDR unit and options)				

Notes:

- ★①. Minimum pulse width, return loss: ≥55 dB (≥40 dB for 850/1300 nm), group refractive index: 1.5, the unsaturated peak level <1.5dB.
- ★②. Minimum pulse width, group refractive index: 1.5, the backscatter level is >0.5dB of the normal level. For SMF, at 1310nm, return loss: ≥5dB. For MMF, at 850nm, return loss: ≥40dB.
- ★3. New Battery

All specifications valid at 23°C ± 2°C (73.4°F ± 3.6°F) unless otherwise specified.

Contact us

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