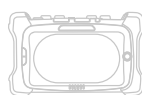# Komshine
enabling today, inspiring tomorrow

KomShine Technologies Limited

2022
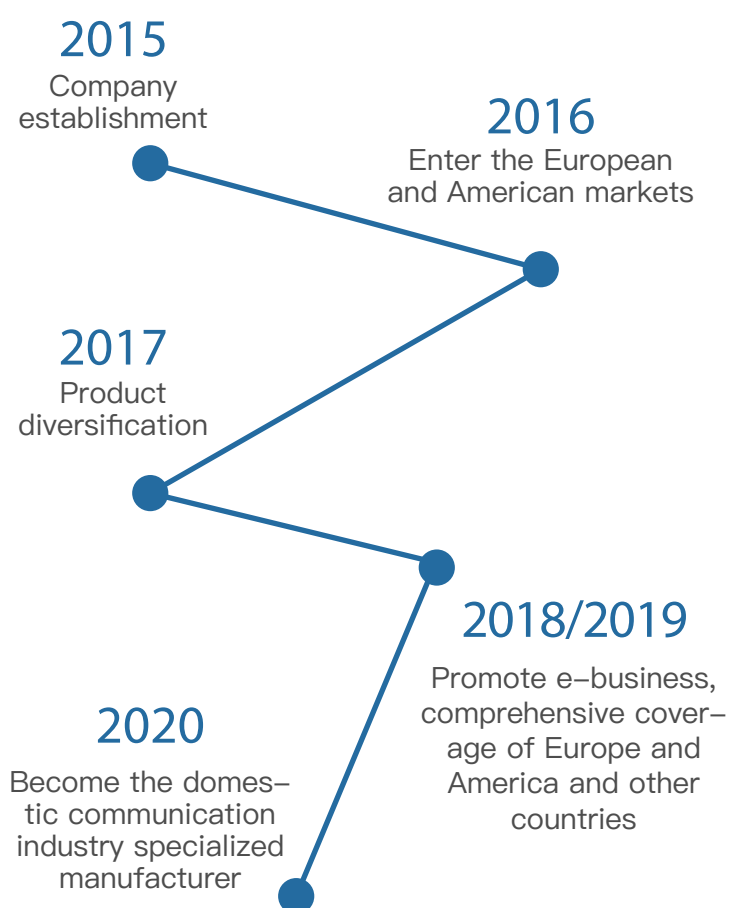# CATALOGUE

Professional Manufacturer In The Optical Communication Industry

COMPANY PROFILE

KomShine Technologies Limited. is a high-tech enterprise integrating R&D, production and sales.

2015
Company establishment

2016
Enter the European and American markets

2017
Product diversification

2018/2019
Promote e-business, comprehensive coverage of Europe and America and other countries

2020
Become the domestic communication industry specialized manufacturer

KomShine Technologies Limited. is a high-tech enterprise integrating R&D, production and sales. The launched optical fiber fusion splicer, OTDR, optical fiber end face inspection, optical fiber end face cleaning and other series of products are favored by users at home and abroad. It has passed the ISO9001 quality system certification of the Great Wall Quality Assurance Center, and its products have passed the EU CE safety certification and Rohs certification.

CONTENT DIRECTORY

Fiber Fusion Splicer

FX39 Six Motor Core Alignment Fusion Splicer

6s splice in SM Quick Mode

16s heat shrink time

Electrode life: 5000 times

7800mAh Battery Capacity, Typical 400 Cycles (Splice&Heat) per Charge

Average loss under 0.01dB

Saved 10000 groups splicing results 2000 sets of Images

4.3" color high resolution (800 x 480) display

USB interface; Convenient for data download and software update

320X(X–axis or Y–axis)/(X–axis or Y–axis)

Automatic arc calibration by air pressure and temperature

It's widely used in the long–haul trunk line network

and can be compatible with the FTTx and Access network installation

Splice Method	6 Motors Real Core Alightment
Applicable Fibers	SM(ITU–T G.652&G.657) / MM(ITU–T G.651) / DS(ITU–T G.653) / NZDS(ITU–T G.655)
Typical Splice Loss	SM: 0.02dB / MM: 0.01dB / DS: 0.04dB / NZDS: 0.04dB / G.657: 0.02dB ★①
Fiber Diameter	Cladding: 80–150μm, Coating: 100~1000μm
Fiber Cleave Length	8~16 mm
Return Loss	>60dB
Splicing Time	SM Quick mode : 6 sec / SM Average: 15 Sec.
Heating Time	Quick mode 16 sec.(SM G652 250μm 40mm Sleeve) adjustable
Battery	7800mAh Battery Capacity, Typical 400 Cycles (Splice&Heat) per Charge ★②
Display	4.3" color high resolution (800 x 480) display
Terminal	USB2.0
Electrode Life	5000 arcs, can be extended by using an electrode grinder ★③

★① With identical fibres(in room temperature). Measured by cut–back method relevant to ITU–T and IEC standards.

★② Splice & Heat cycles may vary depending on the battery status and the operating environment.

★③ Electrode life may vary depending on the operating environment.

EX39 Handheld FTTx Fusion Splicer

Extended–life electrodes, 5,000 splices (replaceable)

Auto Splice & Auto Heat Function

World's most compact, Lightweight and Fast Design

Stable aerial operation Design

Tool–less Electrodes replacement

Fast–splicing 8s, Fast–heating 18s

Support 120 times of splicing + heating when fully charged

Innovatively no need tools to replace electrodes

(Operation platform be ordered separately)

Splice Method	Active Clad–Alignment
Applicable Fibers	SM(ITU–T G.652&G.657) / MM(ITU–T G.651) / DS(ITU–T G.653) / NZDS(ITU–T G.655)
Compatible Fiber/Cable	0.25~3.0 mm / indoor cable
Typical Splice Loss	SM: 0.03dB / MM: 0.01dB / DS: 0.04dB / NZDS: 0.04dB / G.657: 0.03dB ★①
Fiber Diameter	Cladding: 80–150µm, Coating: 100~1000µm
Fiber Cleave Length	8~16 mm
Return Loss	>>60dB
Splicing Time	SM Quick mode : 8 sec / SM Average: 15 Sec.
Heating Time	Quick mode 18 sec.(SM G652 250µm 40mm Sleeve) adjustable
Electrode Lif	5000 arcs (replaceable) ★③
Protection Sleeve Length	20mm, 30mm, 40mm, 50mm, 60mm
Fiber Holde	Replaceable
Display	3.5" color high resolution (800 x 480) display
Terminal	USB2.0
Battery	3400mAh Battery Capacity, Typical 120 Cycles (Splice&Heat) per Charge ★②
Power Supply	AC Input 100–240V, DC Input 9–14V
Results Storage	The last 10,000 splice records and 2,000 result images

★① With identical fibres(in room temperature). Measured by cut–back method relevant to ITU–T and IEC standards.

★② Splice & Heat cycles based on 40mm shrink tube/0.25mm fiber,may vary depending on the battery status and operating environment.

★③ Electrode life may vary depending on the operating environment.

OTDR

OPTICAL TIME-DOMAIN REFLECTOMETER

QX55   OTDR

 Compact, rugged, lightweight/0.7kg

 All new UI design with innovation

 Up to 32dB High dynamic range

1m short event dead zone

Bult—in OPM、SLS、VFL、RJ45、FIP Modules

Link Map & Pass/Fail judgment functions

3—Year Extended Warranty

FTTx/PON testing through splitters

Water resistant

Drop resistant

Dust resistant

Brand—new UI Design

Model	Q55–S	Q55–P
Wavelength (nm)	SM 1310/1550	PON 1310/1550/1625 (built–in filter)
Dynamic range (dB)	32/30	32/30/28
Number of optical port	1	2
Applicable fiber	SM (ITU–T G.652)	
Distance range (km)	0.5,1,2,5,10,20,35,50,75,100,150,200	
Pulse width (ns)	5,10,20,50,100,200,500,1000,2000,10000,20000	
Event dead zone*1 (m))	1	
Attenuation dead zone*2 (m)	3.5	
Number of sampling points	Max. 256000	
Sampling resolution	Min. 0.04m	
Distance measurement accuracy	$\pm(0.75\text{ m} + \text{Measurement distance} \times 2 \times 10^{-5} + \text{Sampling resolution})$	
Loss measurement accuracy	±0.03 dB/dB	
Return loss measurement accuracy	±2 dB	

QX50

OTDR

Dynamic range：30/28dB

Event deadzone: <1.8m

850–1625nm Wavelength

Connector type: SC/ST/FC/LC connector

USB interfaces, supporting USB stick and printer and direct cable download to PC via ActiveSync

Memory capacity >800 traces

Built–in lithium battery with high capacity for over 8 hours of operating life

Display: Color LCD

Model	QX50–M	QX50–S	QX50–P	QX50–MS
Wavelength(nm)	850/1300	1310/1550	1310/1550/1625	850/1300+1310/1550
Build–in VFL	Y		N	
Applicable fiber	SM(ITU–T G.652)			
Distance range(km)	0.1,0.5,1,2,5,10,20,30,50,100,200,240			
Pulse width(ns)	5,20,40,80,160,320,640,1280,2560,5120,10240,20480			
Event dead zone(m)	1.8			
Attenuation dead zone(m)	3			
Dynamic range(dB)	21/23	32/30	32/30/28	21/23+32/30
Optical connector	FC/UPC (SC/LC/ST can be selected)			
Laser class	Class 1m			
Memory of trances	10,000 pieces			

Shock resistant

Water resistant

Drop resistant

Dust resistant

KFLC-1

OTDR Dead Zone Eliminator

Compact, rugged, lightweight

100m、300m、500m、1km、2km lengths standard

Available with a variety of connector styles

For use as OTDR launch cable

For use as OTDR receive cable

Use to test link loss with an OTDR

Measure insertion loss and reflectance of near- and

far-end connections of a fiber optic link using an OTDR

KFLC- 2

OTDR Dead Zone Eliminator

Compact, rugged, lightweight

100m、300m、500m、1km、2km lengths standard

Available with a variety of connector styles

For use as OTDR launch cable

For use as OTDR receive cable

Use to test link loss with an OTDR

Measure insertion loss and reflectance of near- and

far-end connections of a fiber optic link using an OTDR

Optical Test Meter

KPN-35   Optical Pwer Meter

For PON Network Testing

Test 3 wavelengths separately and simultaneously

Used in Burst mode measurement of 1310nm upstream

One–year warranty and Three–year recommended calibration interval

Providing simultaneous measurement for all three wavelengths on the fiber(1490nm, 1550nm,1310nm).

Standard SC interface

Wavelength	1310nm	1490nm	1550nm
Isolation Degree with Filtering Function	1490nm>40dB 1550nm>40dB	1310nm>40dB 1550nm>30dB	1310nm>40dB 1490nm>30dB
Measurement Range	−40dBm~ +16dBm	−50dBm~ +16dBm	−50dBm~ +23dBm
Spectral Passband (nm)	1260~1360	1480~ 1500	1539~1565
Threshold Sets	5 Configurable threshold sets with toolbox software		
Connector Type	SC/UPC (customizable other types)		

KPV-53 Optical Power Meter & Visual Fault Locator

2.5mm universal interface

±0.2 dB accuracy

Wavelengths 850–1625nm

0.01 dB Resolution

Measurement Range –70~+6dBm

Manual calibration

Waterproof keys suitable for various outdoor environments

Silicone jacket, anti–drop 2m

Equipped with LED light, not afraid of the dark

Standard SC interface

Wavelength	800 ~ 1700 (nm)
Type of applicable fibers	SM MM
Optical adaptor type	FC/SC + 2.5 Universal connector
Power range	–70 ~ +6dB/ –50 ~ +26dBm
Calibration accuracy	±0.2 (dB)
Calibration wavelength	850/980/1300/1310/1490/1550/1625(nm)

KPM-35 Optical power meter

2.5mm universal interface

±0.2 dB accuracy

Wavelengths 850–1625nm

0.01 dB Resolution

Measurement Range –70~+6dBm/ –50~+26 dBm

Manual calibration

Silicone jacket, anti–drop 2m

Equipped with LED light, not afraid of the dark

Waterproof keys suitable for various outdoor environments

KLS-35　Fiber Optic Light Source

2.5mm universal interface + SC Adaptor

Typical output power: –5dB

Wavelengths : 850nm–1550nm

Drop proof: 2m

Low power function display

Waterproof key suitable for all kinds of outdoor environments

Silicon shell protection design: shock proof & drop proof

LED backlight

Standard SC interface

KLS-25m　Mini Fiber Optic Light Source

2.5mm universal+SC adapter

Output power：–5dB

Wavelength: 1310/1550nm

Drop protection: 2m

Low power function display

Water–resistant keys

Pocket size design

LED lighting

Standard SC interface

KPM-25m　Mini Optical Power Meter

2.5mm universal interface

±0.2 dB accuracy

Wavelengths 850–1625nm

0.01 dB Resolution

Measurement Range –70~+6dBm

Manual calibration

Waterproof keys suitable for various outdoor environments

Silicone jacket, anti–drop 2m

Equipped with LED light, not afraid of the dark

KPM-11M   Optical Power Meter

Pocket Design, mini and compact

Accuracy lower than ±0.2dB

60 Hours continuous use

Users can calibrate the value manually

Range of measurement: −70~+6dBm / −50~+26dBm

7 Wavelengths （850/980 /1300/ 1310/1490/1550/1625nm）

Universal adapter design, suit for SC, FC, ST Connector

Built in LED Light, Easy to operate in the dark environment

Lithium Battery is Optional, USB Charging, easy to use

KFI-40   Optical Fiber Identifier

Suitable for 0.25/ 0.9/ 2.0/ 3.0mm fibers

Test sensitivity: −40dBm to 10 dBm

Easy to carry, no need to replace the chucks

Configure VFL function, 2.5mm universal

Test distance up to 5km, high stability

Strong light source, strong penetrating power

Be equipped with LED light, more convenient to check the fibers in the dark

LED backlight display, suitable for various environments without auxiliary lighting

KFI-35   Optical Fiber Identifier

Display relative optical power

Test online without interruption of the link

Recognize the signal of 270Hz, 1KHZ,2Khz

Comes with a hood to provide more accuratetest results outdoors

Identify the propagation direction of light, sound alarm reminder

LED display, 4 fixtures support bare fiber, 0.9mm, 2mm, 3mm fiber

Test sensitivity −40dBm to 10dBm

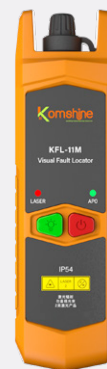# KFL-11M   Visual Fault Locator

Pocket size

Measuring up to 30km, high stability

Silicone dust cap

2.5mm Universal adaptor for FC/ SC/ ST

With LED lights for dark environment

Lithium battery USB–charging / AA Batteries (optional)

KFL-11P   Visual Fault Locator

Bright red laser at 650nm

Pulsed and CW operation

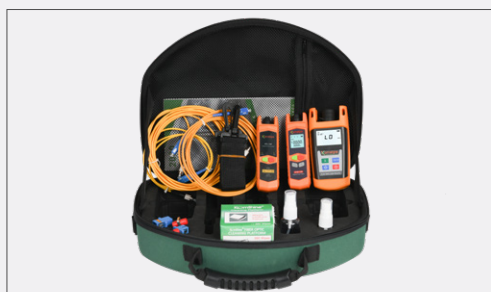Outpower: 1mw,10mw,20mw,30mw

2.5mm universal adaptor for FC/ SC/ ST

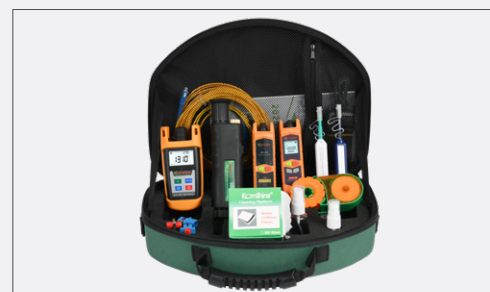40h Continuous work

1.25 mm adapter for LC (optional)

OPTICAL FIBER TEST KIT

KOMSHINE KLT series optical fiber test kits are suitable for fiber loss testing, fiber end face cleaning, fiber break point detection and other fields. It contains all necessary tools for testing, cleaning, inspection, etc.
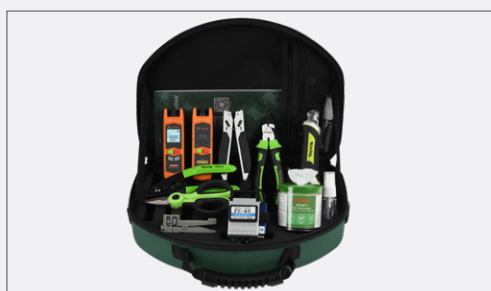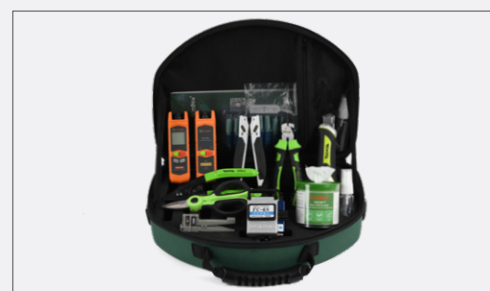
KLT-12E

KLT-15D

FTTH TOOL KIT

KOMSHINE KFH series FTTH tool set is suitable for FTTH fiber to the home, fiber optic connector field production, fiber loss test, fiber cleaning and other fields. It contains all the necessary tools for fiber cutting, inspection, clean–ing, testing, etc.

KFH-12E

KFH-63D

Cleaning & Inspection Items

KIP-600V   Fiber Optic Connector Inspection System

400 Times magnification, the stain is clearly visible

Compatible / FC/SC/ST/LC/SC female connector/LC male connector

4000mAH Large capacity lithium power, 20 hours standby

Rotary metal bracket, stable and convenient

3.5 Inch HD LCD display

1/3 Inch sensor, 300,000 effective pixels

Removable silicon case

Small size, one–handed, convenient and fast

Real time video, support extend t–flash card

Magnification	400X
Playback	AVI
Format	TF
Compatible memory cards	8 (GB)
USB	1.1/ 2.0
AC adapter	DC 5V/ 2A
Internal battery	Lithium battery 4000 mAh

KFM-200 Fiber Connector Microscope

The amplification rates of 200 times

Imported coated lens, stain clearly visible

White LED, rated for 100,000 hours; 20 hour battery life

Grinded silica gel shell, anti–skid, anti–fall and anti–shock

Supporting SC/FC/ST/LC

1.25 mm & 2.5mm Adapter

Small size, one–handed, convenient and fast

KCC-550/600 Optical Connector Cleaner

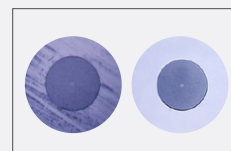Cleaning fast, efficient, repeatable

Dry special anti–static microfiber fabric

Provides 500+ times of cleaning

Each cleaning is very effictive and prooduce a new surface

Hand control operation, lightweight design, replaceable core

It is suitable for cleaning the end face of FC/SC/LC/ST/MU/D4/DIN

optical fiber connector PC/APC

KOC-125/250 Optical Connector One-Click Cleaner

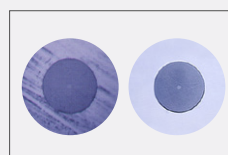Simple pushing motion to engage tool

Over 800+ engagements per unit

Dry cleaning strand eliminates the need for solvents to be effective

Crush resistant to over 250N

Impact resistant to survive drops over1.5m

Cleans SC/ST/FC/E2000 (APC/UPC)and other 2.5mm

Cleans LC/MU (APC/UPC) and other 1.25mm

FOCP **Fiber Cleaning Platform**

Wet & dry dual use, cleaning with alcohol

280 Pieces continuous point break design

Cleaning times >1000

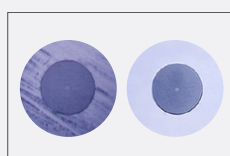Industrial grade anti–static embossing dust–free cloth

FOCW **Fiber Cleaning Wipes**

Soft texture, dry & wet dual–use
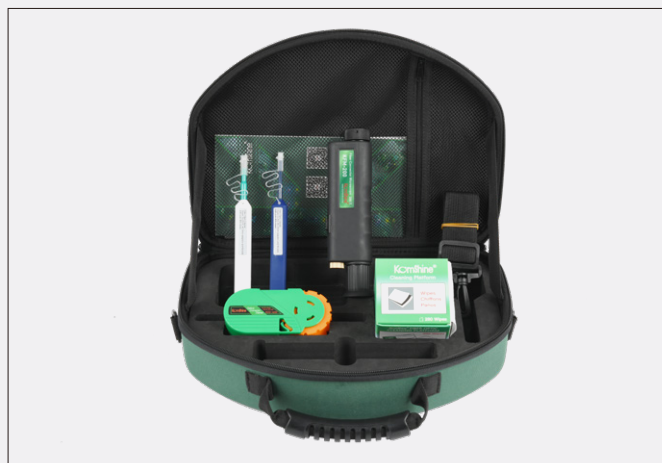
Economical replaceable cleaning core

Thick non–woven cloth wipe material, no dust

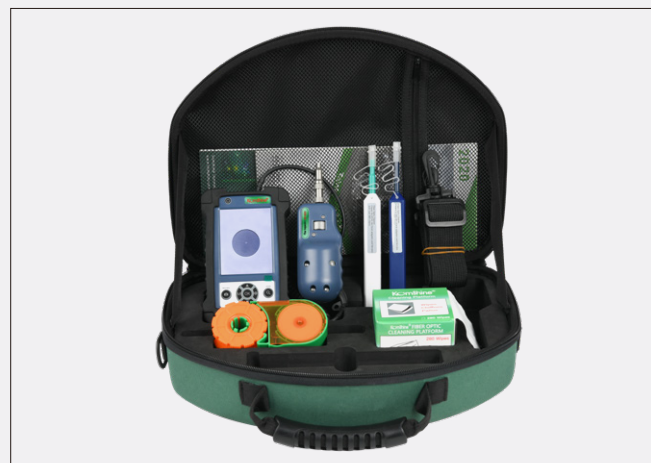Portable pull design, clear break point is easy to tear

OPTICAL FIBER CLEANING TEST KIT

KOMSHINE KFH series FTTH tool set is suitable for FTTH fiber to the home, fiber optic connector field produc–tion, fiber loss test, fiber cleaning and other fields. It contains all the necessary tools for fiber cutting, inspection, cleaning, testing, etc.

KIC-05E

KIC-05D

CONTACT US

Thank you for coming to KomShine. If you have any questions, please contact us in time. We will reply to you as soon as possible and provide you with the most sincere service, thank you!

Website

📞 +86 25 66047688

✉️ info@komshine.com

📍 2F Bldg. D Qinheng Tech. Pk. Nanjing, JS, 210001, China

🌐 www.komshine.com