



# Kamaxoptic Communication Co.,LTD

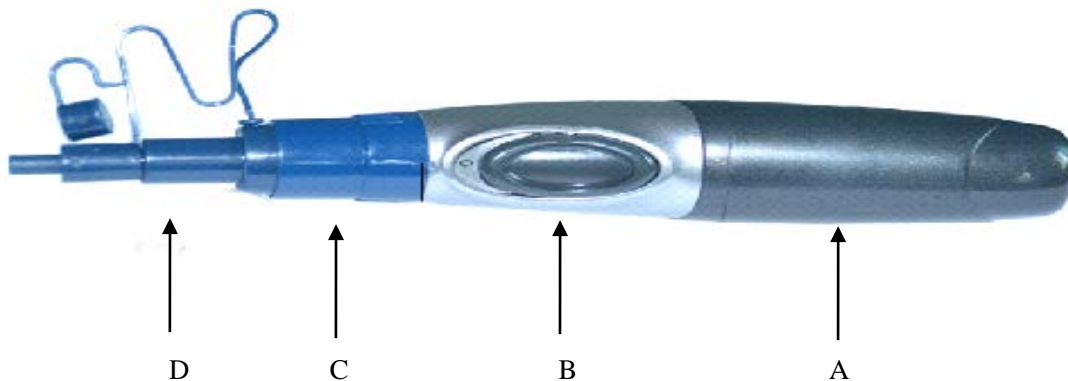
## KDV-137 Electromotive Cleaner User Manual

Thank you for your purchasing the KDV-137 Electromotive Cleaner from KOC, which, radically resolve the traditional difficulty of fiber end-face cleaning. Not only performs effective cleaning, KDV-137 also operates efficiently and conveniently, proving to be your best choice for fiber maintenance.

[KDV-137 Overview](#)



### Cleaner Body Introduction





## Parts Introduction:

A: Battery Pack.

B: Cleaning Button.

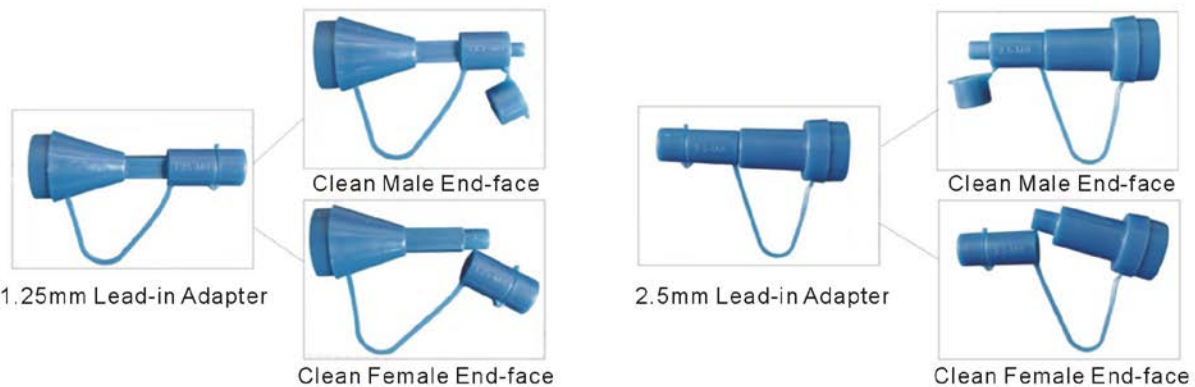
C: Adapter Sleeve outside, Rotation Axis inside.

D: Lead-in adapter, help the alignment of cleaning bar against the fiber end-face.

## Cleaner Installation:

- Break off the cleaner body, Put the batteries into it as electrode symbol suggested inside.
- Connect the C into the front end of part B ( No need to connect if LC/MU adapter is used).
- Insert 2.5mm or 1.25mm refill (cleaning stick) into the rotation axis, Remove the dust cap the same time.
- Connect the lead-in adapter in proportion.
- Press the button "switch" to start to clean.

## KDV-137 Lead-in Adapters



Not only have three types of adapters, covering all the cleaning modes, KDV-137 also concentrate different functions (one Lead-in adapter can clean both male and female type), distinguished from the traditional tools, bringing you a complete convenience for operating.



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## KDV-137 Cleaning Materials

Types: There are two types of Cleaning Materials: KDV-F25 / KDV-F15



KDV-F25 Refill(cleaning stick)



KDV-F15 Refill(cleaning stick)

The materials from the front-end of stick are 0.5 ~ 0.8mm thick, madding from imported high-density glabrous fiber. It rotates with stick 80 transfer per second, sucking all the contamination from the end-face just within 3~5 s. No breakage, no slag, consecutive cleaning of 20 faces per stick even contribute to no repeated pollution, but please note that consecutive cleaning of 50 faces per stick may relatively weaken the performance.

### Application:

KDV-F25: To clean the 2.5mm female or male end face of SC/FC/ ST.

Front-end with Cleaning Material



Tail-end with trapezoid shape

KDV-F15: To clean 1.25mm female or male end-face of LC/MU.

Front-end with Cleaning Material



Tail-end with trapezoid shape

### Specification:

Item	Quantity Per Box	Cleaning Target	Cleaning Times
KDV-F15 Cleaning Stick (1.25mm)	500pcs	LC、MU end face	15000~25000 times
KDV-F25 Cleaning Stick (2.5mm)	500pcs	SC、FC、ST、E2000	25000~40000 times

Note: (Please read carefully to have a cleaning effect)



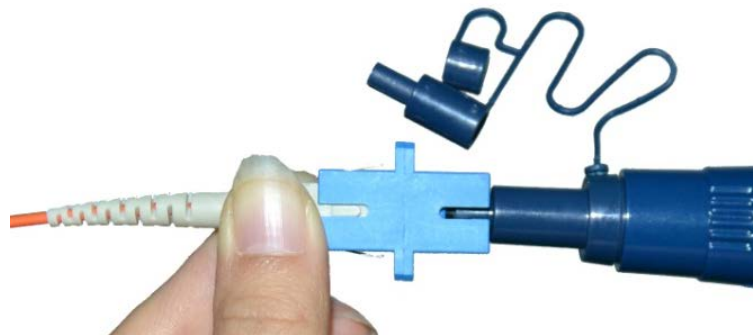
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- Insert the cleaning stick to the rotation axis, revolve it till be properly aligned with trapezoid inside end.
- Also note that the materials should be carefully protected before the removal of the protective sleeve from the front-end of stick.
- Cleaning Sticks are made from specific materials and closely processed, please note that any liquid as alcohol / cleaning fluid et al should be avoided.
- Repeated cleaning times can be 20~50 per stick. More sticks are required for the end-face with oil contaminations. Replacement of sticks is necessary if cleaning materials are damaged or come off.
- For the rust-like contaminations, following steps are suggested: Dip some alcohol to the stick to clean several times till contaminations are swelled and removable. Use another stick without alcohol to clean several times afterwards. Have a final cleaning with a third new stick.
- Cleaning Stick has no use to the end-face scratched or nicked, exchanging the connector is suggested.
- Use the FVO-600A series microscope to inspect and check the cleaned end-face.

## KDV-137 Application & Operation

Note: each step should be carefully operated to avoid any laser signal and protect your eyes.

### Female ferrule cleaning



### Working Steps:

- Insert the KDV-F25 cleaning stick, fix the 2.5-M/F lead-in adapter, remove the dust cap and male part of lead-in adapter, rotate the ON-OFF part against the trail mark.
- Insert the cleaning stick into the flange, press slightly to promise a normal use.
- Press the button 5s to complete the cleaning.

### To clean the 1.25mm ferrule fiber end-face

#### Male ferrule cleaning







## Working Steps:

- Insert the KDV-F15 cleaning stick, fix the 1.25-M/F lead-in adapter, remove the dust cap, rotate the ON-OFF part against the trail mark.
- Insert the male ferrule into the adapter, press slightly to promise a normal use.
- Press the button 5s to complete the cleaning.

## Female ferrule cleaning



## Working Steps:

- Insert the KDV-F15 cleaning stick, fix the 1.25-M/F lead-in adapter, remove the dust cap and male part of lead-in adapter, rotate the ON-OFF part against the trail mark.
- Insert the cleaning stick into the flange, press slightly to promise a normal use.
- Press the button 5s to complete the cleaning.

## Note:

- To minimum the time span of interrupted signal, seperate cleaning of female and male end-face suggested.
- The most common 2.5mm fiber ferrule types: SC/FC/ST/E2000
- The most common 1.25mm fiber ferrule types: MU/LC
- Male Ferrule: Fiber ferrule not inserted in the flange or fiber end-face in the mode.
- Female Ferrule: Fiber ferrule inserted in the flange.
- High-volume Alkaline battery prefer.

## KDV-137 Standard Allocation

Item	Goods	Qty	Description
01	KDV-137 Cleaner	1PCS	Cleaner body (Two BATT included)
02	KDV-F25 Cleaning Material	30PCS	Clean 1500~3000 end-faces
03	KDV-F15 Cleaning Material	20PCS	Clean 600~1600 end-faces
04	2.5-M/F、1.25-M/F Lead-in Adapter	1 PCS Each	Clean 2.5mm and 1.25mm female and male fiber end-faces.
05	Carrying Box	1 PCS	Placement of standard allocation

## KDV-137 Application Notice

- Cleaning sticks should be installed correctly, please note that the gap end of stick should be matched to the joint sleep of the cleaner properly.



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- Be sure to install the adapter before cleaning operation, please note that adapter usage is a must.
- Be sure to align the stick straightly to the fiber cleaning port, please note that any deviation from the fiber cleaning port will affect the cleaning performance.
- Be sure to have the way of migratory cleaning, please note that using the cleaner movably to clean the fiber port.
- Be sure to control the cleaning time within 3-4s.
- Be sure not to shut down the power till all the cleaning actions are completed.
- Be sure not to contact any liquid to the cleaning sticks, please note that all these cleaning materials should be protected from any liquid including the sweat from fingers.
- Be sure the cleaning materials are preserved under the condition of 35°C below and 50% humidity around.

## **Warranty Information**

Thanks for your purchase, KOC will warrant this equipment against defects in material and workmanship for a period of three year from the date of original shipment.

During the warranty period, any repair, replace for the defective products are free of charge except the damage by unauthorized or non-KOC personnel.

Also all the product information is subject to the KOC, it may change with need without notice, please contact relevant staffs for consult if necessary.

The Global Solution in Active and Passive Fiber Optic Components