➔ Table manual (ECX, TCP)

.



Table of content

General instructions 3

UV table 4

Blue LED light Table (Skylight) 5

ECX transilluminator 6

TCP – 2 wavelengths transilluminator 7

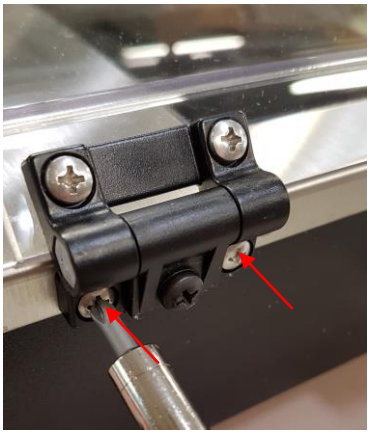
Accessories 10

Garanty 10

General instructions

Removing the protective screen :

To remove the protective screen, simply
Remove the screws marked with an arrow.



CAUTION: Switch off the table when electrophoresis gel is not present. The table should not be kept “On” for more than 25 minutes without gel. If such is the case, switch off the table for 20 minutes before a new utilization. If the filter is too hot, it will destroy your electrophoresis gel.

All our fluorescent pad are fitted with two safety fuses. These fuses are located at the underside of the pad.).

➔ Type of socket and fuse

On the rear of PAD	Type of fuse (all models)
	Fuses located on the underside Type FST Time-lag T Ø 5 x 20

Power: See the power values for each item in the spare parts and characteristics board on the last page of the manual.

WARNING

UV radiation can be dangerous for unprotected eyes and skin, therefore we recommend the user to wear UV protective goggles (LP-70) or face-shield (MP-80 or MP-800).
Blue LED light can be dangerous for unprotected eyes, therefore we recommend the user to wear LED protect goggles (LP-50)

UV table

You have purchased a new UV transilluminator. We are sure it will give you entire satisfaction. All our UV transilluminators come equipped with the following:

- UV safety screen — - total protection for the user against UV rays,
  - fully adjustable angle.
  - long lifetime
- Filter — - unrivalled UV transmitting quality,
  - high capacity for absorption of visible light,
  - brighter fluorescent response.
- Reflector — - high reflecting quality to give a perfect diffusion of UV radiation ("Optic" quality).
- Filter support — - stainless steel.
- UV intensity selector (2 positions) — - position 100% for reading, position 70% for preparation.

➔ Warning / On the safety

a) This unit must be connected to a wall outlet having protective earth terminal. Connecting to ground is an obligatory protection.
b) To prevent fire or shock hazard, do not expose the unit to rain or moisture.
c) Unplug the unit from the wall outlet if you do not use it for a long time. Disconnect the power cord by grasping the plug. Never pull the cord itself.
d) Never obstruct the air admission grids of the unit.


This symbol is warning against a possible UV radiation. Protect the eyes and skin from the UV radiation.


This symbol is warning against a possible radiation of blue LED light. Protect the eyes from the blue LED.

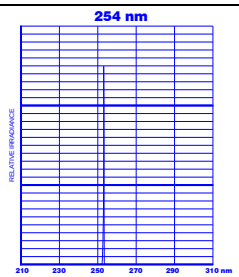
➔ Climatic conditions

- Altitude	: ≤ 2000 meters
- Operating humidity	: 20% to 80% (no condensation allowed)
- Operating temperature	: 5°C to 33°C

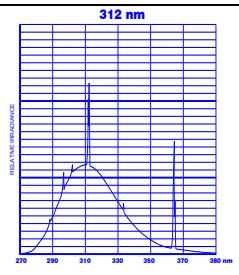
➔ General advice

- To clean the surface of the filter, use a mild solvent or warm water. Dry with a soft cloth.
- The filter is porous, so try to keep it dry.
- Normal cycle using: 1 to 25 minutes.

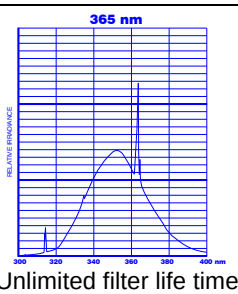
SPECTRAL CURVES



Filter lifetime: 2000 hours
Intensity : 7 mW/cm²



Unlimited filter life time
No 254nm emission guaranteed
Intensity : 8 mW/cm²



Unlimited filter life time
No 254nm emission guaranteed
Intensity : 7 mW/cm²

Blue LED light Table (Skylight)

You have purchased a new Blue transilluminator. We are sure it will give you entire satisfaction. All our transilluminators come equipped with the following:

▪ Orange screen	- fully adjustable angle. - long lifetime
▪ Filter	- unrivalled transmitting quality, - high capacity, .
▪ Filter support	- stainless steel.

➔ Warning / On the safety

e) This unit must be connected to a wall outlet having protective earth terminal. Connecting to ground is an obligatory protection.
f) To prevent fire or shock hazard, do not expose the unit to rain or moisture.
g) Unplug the unit from the wall outlet if you do not use it for a long time. Disconnect the power cord by grasping the plug. Never pull the cord itself.
h) Never obstruct the air admission grids of the unit.

 This symbol is warning against a possible radiation of blue LED light. Protect the eyes from the blue LED.

➔ Climatic conditions

- Altitude	: ≤ 2000 meters
- Operating humidity	: 20% to 80% (no condensation allowed)
- Operating temperature	: 5°C to 33°C

➔ General advice

- To clean the surface of the filter, use a mild solvent or warm water. Dry with a soft cloth.
- The filter is porous, so try to keep it dry.
- Normal cycle using: 1 to 25 minutes.

ECX transilluminator

➔ Operating instructions

- Place your UV Table on a level working surface,
- Plug the unit into **a properly grounded electrical outlet**,
- To work in "reading" mode, select position 100%, then switch on the on/off switch
- To work in "preparation" mode, select position 70%, then switch on the on/off switch
- After use, switch off the on/off switch.

CAUTION: Switch off the table when electrophoresis gel is not present on the transilluminator. If the filter is too hot, it will damage your electrophoresis gel.
Do not forget to switch off the appliance when not used.

NOTE: Wait at least 20 second in the "100%" position before reducing the intensity selector to "70%". For this, use the light switch :



If one or several tubes are off or used, and in order to keep a better homogeneity, VILBER LOURMAT recommends to change the 5 tubes simultaneously.

➔ Changing the tubes

a) Before dismantling, **unplug the UV Table**,
b) Unscrew the 6 fixing screws on the filter support,
c) Remove the filter support,
d) Change the 5 tubes (A quarter turn will release the tubes).

IMPORTANT: Reassemble the UV table completely before checking it works correctly.

To reassemble the UV table, follow the above instructions in reverse order. Fuses are located at the underside or the back side (depending of your model) - see page 3.

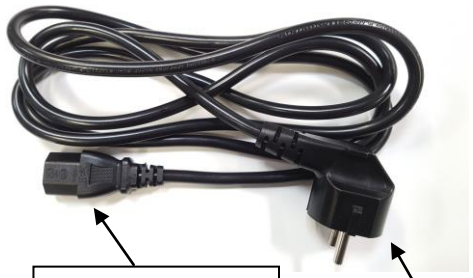
WARNING

UV radiation can be dangerous for unprotected eyes and skin, therefore we recommend the user to wear UV protective goggles (LP-70) or face-shield (MP-80 or MP-800).
Blue LED light can be dangerous for unprotected eyes, therefore we recommend the user to wear LED protect goggles (LP-50)

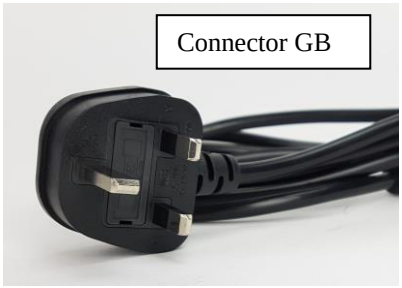
➔ Spare parts

Réf. Article	Tubes				Filter with support	Fuse Ø 5 x 20		Power
	Qty	Réf.	Wavelength	W		230 V~ 240 V~	100 V~ 115 V~	
ECX-F20.C-V1	5	T-8.C	254nm	8W	FSP-TC20.CM V1	2A	2A	45 W
ECX-F20.M-V1	5	T-8.M	312nm	8W	FSP-TC20.CM V1	2A	2A	45 W
ECX-F20.L-V1	5	T-8.L	365nm	8W	FSP-TC20.CM V1	2A	2A	45 W
ECX-F20.Blue-V1	-	-	-	-	FS-TC20.Blue V1	2A	2A	25 W
ECX-F20.SkyLight-V1	-	-	-	-	FS-TC20.Blue V1	2A	2A	25 W
ECX-F20.W-V1	-	-	-	-	FS-TC20.WL V1	2A	2A	25 W
ECX-F26.C-V1	5	T-8.C	254nm	8W	FSP-TC26.CM V1	2A	2A	45 W
ECX-F26.M-V1	5	T-8.M	312nm	8W	FSP-TC26.CM V1	2A	2A	45 W
ECX-F26.L-V1	5	T-8.L	365nm	8W	FSP-TC26.CM V1	2A	2A	45 W
ECX-F26.MX-V1	5	T-8.M	312nm	8W	FSP-TC26.MX V1	2A	2A	45 W

Only for standalone model :







Filter:



FS-TC20.WL V1



FSP-TC26.CM V1



FSP-TC20.CM V1



FS-TC20.Blue V1

WARNING

UV radiation can be dangerous for unprotected eyes and skin, therefore we recommend the user to wear UV protective goggles (LP-70) or face-shield (MP-80 or MP-800).
Blue LED light can be dangerous for unprotected eyes, therefore we recommend the user to wear LED protect goggles (LP-50)

TCP – 2 wavelengths transilluminator

➔ Operating instructions

- Place your UV Table on a level working surface,
- Plug the unit into **a properly grounded electrical outlet**,
- To work in "reading" mode, select position 100%, then switch on the on/off switch
- To work in "preparation" mode, select position 70%, then switch on the on/off switch
- After use, switch off the on/off switch.

CAUTION: Switch off the table when electrophoresis gel is not present on the transilluminator. If the filter is too hot, it will damage your electrophoresis gel.
Do not forget to switch off the appliance when not used.

NOTE: Wait at least 20 second in the "100%" position before reducing the intensity selector to "70%". For this, use the light switch :



If one or several tubes are off or used, and in order to keep a better homogeneity, VILBER LOURMAT recommends to change the 5 tubes simultaneously.

➔ Changing the tubes

e) Before dismantling, **unplug the UV Table**,
f) Unscrew the 6 fixing screws on the filter support,
g) Remove the filter support,
h) Change the 5 or 9 tubes (A quarter turn will release the tubes).

IMPORTANT: Reassemble the UV table completely before checking it works correctly.

To reassemble the UV table, follow the above instructions in reverse order. Fuses are located at the underside- see page 3.

ONLY FOR DUAL WAVELENGHT : To reinstall the tubes for their replacement, respect position of each tubes as shown on the following picture





➔ Spare parts

Ref. Article	Tubes				Filter with support	Fuse Ø 5 x 20		Power
	Qty	Ref.	Wavelength	W		230 V~ 240 V~	100 V~ 115 V~	
TCP-20.LM-V1	4	T-8.L	365nm	8W	FSP-TC20.CM V1	2 A	2 A	45 W
	5	T-8.M	312nm					
TCP-20.MC-V1	4	T-8.M	312nm	8W	FSP-TC20.CM V1	2 A	2 A	45 W
	5	T-8.C	254nm					
TCP-20.LC-V1	4	T-8.L	365nm	8W	FSP-TC20.CM V1	2 A	2 A	45 W
	5	T-8.C	254nm					
TCP-26.LM-V1	4	T-8.L	365nm	8W	FSP-TC26.CM V1	2 A	2 A	45 W
	5	T-8.M	312nm					
TCP-26.MC-V1	4	T-8.M	312nm	8W	FSP-TC26.CM V1	2 A	2 A	45 W
	5	T-8.C	254nm					
TCP-26.LC-V1	4	T-8.L	365nm	8W	FSP-TC26.CM V1	2 A	2 A	45 W
	5	T-8.C	254nm					
TCP-26.LMX-V1	4	T-8.L	365nm	8W	FSP-TC26.MX V1	2 A	2 A	45 W
	5	T-8.M	312nm					

WARNING

UV radiation can be dangerous for unprotected eyes and skin, therefore we recommend the user to wear UV protective goggles (LP-70) or face-shield (MP-80 or MP-800).

Accessories

➔ Conversion filter

FC-26.WL : Converter of UV Light in White Light (working area: 260 x 210mm).

➔ Protection

LP-50 : Skylight safety goggles
LP-70 : UV safety goggles.
MP-80 : Face-shield for total face protection.
MP-800: Face-shield for total face and ear protection.

Garanty

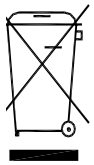
Our products (except Compact Flash®, light tubes and filters) are warranted against faulty construction or defective material for a period of TWO YEARS from the date of supply. Our products are not warranted for damage due to carelessness, incorrect use or bad maintenance.
The following defects are also specifically excluded:
- Defects caused by improper operation.
- Repair or modification done by anyone other than VILBER LOURMAT or an authorised agent.
- Corrosion caused by improper solvents or samples.
- Use of spare parts supplied by anyone other than VILBER LOURMAT.
- Damage caused by accident or misuse.
- Damage caused by disaster.

This instrument should not be modified or altered in any way. Modification or alteration of this instrument will:
1. Void the manufacturer's warranty.
2. Void the conformity certifications.
3. Create a potential safety hazard.

The Compact Flash®, the tubes and the filters are not covered by our warranty.
The use of consumable products or non-original spare parts not recommended by our service department is at the user's own risk and therefore automatically invalidates the warranty.
Tubes, filters, batteries and consumable products are not included in the warranty.
We reserve the right to decide where the faulty goods will be repaired (in our workshop or elsewhere), and whether or not the faulty part is to be replaced; all other freight charges incurred being at the cost of the purchaser.
Returned goods will not be accepted for repair unless previous written authorisation is obtained from our service department. A request for authorisation must be accompanied by an itemised list of products, model numbers and the corresponding invoice numbers under which they were originally shipped.
All returned goods should have a certificate of decontamination.
The Buyer must bear all costs and risks incurred during the transportation of the goods from their collection at VILBER LOURMAT warehouse.
In the case VILBER LOURMAT incorporates some devices or equipment from another supplier in the manufacture of its products, the extent and the duration of the warranty will be those conceded by the suppliers or sellers.
Manufacturer cannot be held responsible for any loss, bodily injury or material accident incurred by any failure of this supply, whatever the origin of this failure may be.
The responsibility of Manufacturer is strictly limited to its staff and to its own supplies.
In the case of dispute, only the commercial court of Meaux (France) shall be competent, even in third party claims proceedings or when there are several co-defendants.

NOTE: VILBER LOURMAT is not responsible for any injury or damage caused by use of this instrument for purposes other than those for which it is intended, or by modifications of the instrument not performed by VILBER LOURMAT.

Decontamination, collection and elimination of waste for France only



The buyer ensures and finances the decontamination, the collection and the disposal of waste electrical and electronic equipment (WEEE) under the conditions provided in the Articles 21 and 22 of the Decree No. 2005-829 dated of 20 July 2005.
In France, for tubes recycling, contact the company Recylum, www.recylum.com
Improper disposal may be harmful to the environment and human health.

➔ Declaration of conformity

CE

The materials complies with the requirements of the EC Directive 2004/108/EEC, 2006/95/EEC and EN 61010-1 (electro-magnetic compatibility and low voltage)
The electro-magnetic susceptibility has been chosen at a level that gains proper operation in residential areas, on business and light industrial premises and on small-scale enterprises, inside as well as outside of the buildings. All places of operation are characterized by their connection to the public low voltage power supply system