

*Manufacturer
of Life Science ...*

Herolab

GmbH

Laborgeräte

UVT-
14/22/
20/28/40

Transilluminators:

UV light, White light (WE-LED), Blue Light (BE-LED)

Made in Germany – Made by Herolab



Standard Class

For use in all fields



Advanced Class

Multiwave / Variable Intensity



High Contrast Class

The new level of Transillumination



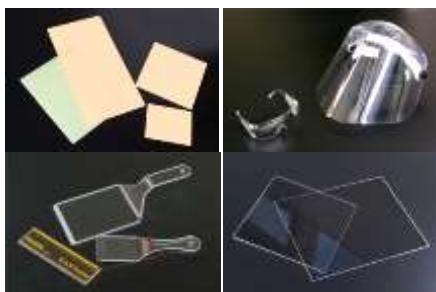
Economy Class

Robust and good value



Blue Light

Economy Class



Accessories

RadiCon®-Plates, Filter Protection Plates,
UV Protection, Gel-Cutter, Scoops



Spare Parts

UV Tubes and Filters



2015-02

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Herolab Transilluminators in more than 50 different versions – there is the right one for everybody!

- ◆ **Herolab LongLife® Electronics:**
→ low heat generation, quick start without flickering, long service life
- ◆ Stainless steel filter frame, powder-coated housing, counter-sunk switches
- ◆ Special reflectors made of refined aluminum for even illumination of samples with effective use of the high UV intensity of the tubes
- ◆ To be used as a white light table in combination with the RadiCon® converter plate or as blue light table with RadiCon® BLUE converter plate

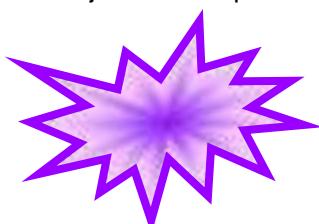


1 Safety advice:

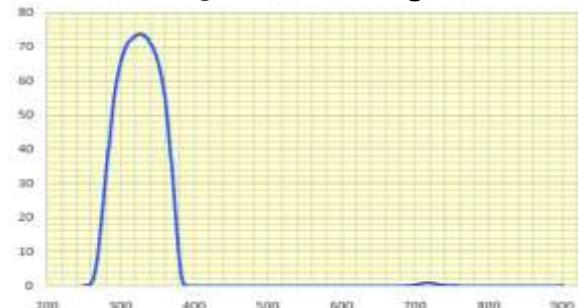
When working with UV light always wear adequate UV protection!

High Contrast – The new level of UV Transillumination

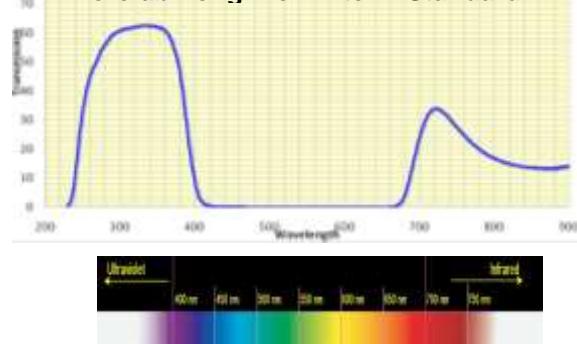
- ◆ Contrast reinforcement by **improved filter characteristics**
- ◆ Homogeneously illuminated filter glass surface
- ◆ **No additional filter needed at the camera lens**
- ◆ Improved results with all fluorophores, e.g. SYBR™ stained or ethidium bromide
- ◆ Intensity switch 100 % ↔ 75 % (not for model UVT-14/22)
- ◆ Available as Advanced, Standard and Economy Class
- ◆ Removable adjustable UV protection shield (for Economy models available against surcharge)



Herolab LongLife® Filter – High Contrast



Herolab LongLife® Filter – Standard



UV-TRANSILLUMINATORS



The new Herolab High Contrast Transilluminators are state-of-the-art gel visualization UV tables and let the DNS gels appear in a new light. The particular homogeneous illumination of the entire filter surface and the simultaneously improved contrast characteristics set new benchmarks. Their highly uniform excitation source makes even weak bands in ethidium bromide stained gels as well as in SYBR™ stained gels clearly visible.

1 Safety Advice:

High Contrast Filters do not emit visible light. Be extra cautious!

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Standard Class – For Use in all Fields

- ◆ Intensity switch 100 % ↔ 75 % (not for models UVT-14/22)
- ◆ Removable adjustable UV protection shield included

These UV tables are designed for the use in all fields: for the daily routine (Standard Gel Documentation), for the illumination of samples for subsequent analysis (quantitative analysis with E.A.S.Y® Win32), for the preparation of nucleic acids, etc.



Standard Class – Units with White Light

- ◆ available as White light unit only or in combination with UV light
- ◆ Intensity switch 100 % ↔ 75 % (not for models UVT-14/22)
- ◆ Removable adjustable UV protection shield included



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Advanced Class – Multiwave

- ◆ Duo: with two UV wave lengths / Trio: three UV wave lengths in one unit
- ◆ Every combination of UV wave lengths is possible
- ◆ With intensity switch 100 % \leftrightarrow 75 % (for Duo units only)
- ◆ Removable adjustable UV protection shield included

By now a large selection of fluorescent dyes is available for dyeing of DNA and RNA in agarose resp. polyacrylamid gels. Often different wavelengths need to be used for optimal excitation of these dyes. Up to now this required to change the devices and a new positioning of the sample. This was inconvenient especially for the analysis of differential images.

Herolab GmbH now offers UV transilluminators with two resp. three wavelengths in one unit giving the user full flexibility when handling different fluorescent materials.



Duo: with 2 wave lengths



Trio: with 3 wave lengths

Advanced Class – Variable UV Intensity

- ◆ With infinitely variable electronic intensity control
- ◆ Removable adjustable UV protection shield included

When working with nucleic acids in very low concentrations and/or very short fragments there is always the danger that those are being degraded during the process especially by short wave UV radiation. This made it impossible to detect the DNA resp. to dissect it from the gel.

The new Herolab transilluminators with variable UV intensity provide the solution for this problem: Simply adjust the necessary intensity by turning the knob (there are no increments!) and you will get an optimal result in your work.



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Economy Class – Robust and Good Value

- ◆ Robust steel housing
- ◆ Removable adjustable UV protection shield optionally available

These UV tables are designed **for the use in daily routines**. They can be used in the field of standard gel documentation, for the preparation of nucleic acids, etc.



Economy Class – Blue light

- ◆ Gentle excitation of fluorescent DNA bands in a gel
- ◆ Designed primarily for use with SYBR dyes, but works with Ethidium bromide as well
- ◆ No risk of UV radiation damage of DNA or cells
- ◆ Not dangerous for the user
- ◆ Orange glasses and plate available as optional accessories



The blue-light transilluminator is designed for the use with SYBR dyes which can be excited in the blue range (420 – 500 nm) and emit light above 520 nm. Even after several minutes on the blue-light transilluminator there is **no significant damage of the DNA**. In comparison to that UV light destroys the DNA within seconds and makes any consecutive reaction impossible.

The low background noise of the blue-light transilluminator allows a **longer exposure time** with the advantage of a higher depth of focus. Compared to a UV transilluminator the integration time is two to four times longer. The **gels can remain in the staining tray** because the blue-light transilluminator excites the dyes through most of the common trays made of plastic or glass. The use of microtiter plates, glass plates or UV tight materials is also possible.

For **maximum sensitivity** the blue-light transilluminator could either be used in combination with our Radicon® converter plates in a darkroom or with the orange Herolab DNA Filter as converter for the CCD camera in our darkroom hoods. Due to the longer excitation wavelength of ethidium bromide the blue-light transilluminator is not as sensitive for EtBr stained samples as a UV transilluminator. Nevertheless **ethidium bromide is still significantly excited** by light of less than 500 nm.

As a **protection from scratches during preparative works** the blue filter plate is covered with a glass plate. This does not cause any loss in sensitivity. **No UV protective measures are necessary**, since the light source does not emit a significant amount of UV radiation. Neither sunburn nor damage to the eyes due to UV light is possible.



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Filter Size 11 x 14 cm

Model	Cat. No. 230 V	Cat. No. 110 V	Wave Length	No. of Tubes	Class	Dimensions of housing
UVT-14 SE	29 61 100	29 61 150	254 nm	4 x 6 W	Economy	266 x 186 x 80 mm
UVT-14 ME	29 61 200	29 61 250	312 (302) nm	4 x 6 W	Economy	266 x 186 x 80 mm
UVT-14 ME-HC	29 61 205	29 61 255	312 (302) nm	4 x 6 W	High Contrast	266 x 186 x 80 mm
UVT-14 LE	29 61 300	29 61 305	365 nm	4 x 6 W	Economy	266 x 186 x 80 mm
UVT-14 BE-LED		29 61 380	Blue light LED	LED	Economy	266 x 186 x 80 mm
UVT-14 WE-LED		29 61 480	White light LED	LED	Economy	266 x 186 x 80 mm



Filter Size 14 x 22 cm

Model	Cat. No. 230 V	Cat. No. 110 V	Wave Length	No. of Tubes	Class	Dimensions of housing
UVT-22 SE	29 61 500	29 61 550	254 nm	4 x 6 W	Economy	266 x 186 x 80 mm
UVT-22 ME	29 61 600	29 61 650	312 (302) nm	4 x 6 W	Economy	266 x 186 x 80 mm
UVT-22 ME-HC	29 61 605	29 61 655	312 (302) nm	4 x 6 W	High Contrast	266 x 186 x 80 mm
UVT-22 LE	29 61 700	29 61 750	365 nm	4 x 6 W	Economy	266 x 186 x 80 mm
UVT-22 BE-LED		29 61 680	Blue light LED	LED	Economy	266 x 186 x 80 mm
UVT-22 WE-LED		29 61 780	White light LED	LED	Economy	266 x 186 x 80 mm

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Filter Size 20 x 20 cm

Model	Cat. No. 230 V	Cat. No. 110 V	Wave Length	No. of Tubes	Class	Dimensions of housing
UVT-20 S	29 60 000	29 60 050	254 nm	6 x 8 W	Standard	470 x 340 x 135 mm
UVT-20 SE	29 70 030	29 70 080	254 nm	6 x 8 W	Economy	310 x 316 x 80 mm
UVT-20 S / W	29 75 000	29 75 050	254 nm + White light	6 x 8 W 3 x 6 W	Standard	470 x 340 x 135 mm
UVT-20 SML	29 76 000	29 76 050	+ 312 (302) nm + 365 nm	6 x 8 W 6 x 8 W 5 x 8 W	Advanced	470 x 340 x 135 mm
UVT-20 SM	29 76 500	29 76 550	254 nm + 312 (302) nm	5 x 8 W 6 x 8 W	Advanced	470 x 340 x 135 mm
UVT-20 SL	29 76 700	29 76 750	254 nm + 365 nm	5 x 8 W 6 x 8 W	Advanced	470 x 340 x 135 mm
UVT-20 SV	29 77 000	29 77 050	254 nm variable Intensity	6 x 8 W	Advanced	470 x 340 x 135 mm
UVT-20 M	29 65 000	29 65 050	312 (302) nm	6 x 8 W	Standard	470 x 340 x 135 mm
UVT-20 M-HC	29 65 005	29 65 055	312 (302) nm	6 x 8 W	High Contrast	470 x 340 x 135 mm
UVT-20 ME	29 70 020	29 70 070	312 (302) nm	6 x 8 W	Economy	310 x 316 x 80 mm
UVT-20 ME-HC	29 70 025	29 70 075	312 (302) nm	6 x 8 W	High Contrast	310 x 316 x 80 mm
UVT-20 M / W	29 75 100	29 75 150	312 (302) nm + White light	6 x 8 W 3 x 6 W	Standard	470 x 340 x 135 mm
UVT-20 M/W-HC	29 75 105	29 75 155	312 (302) nm + White light	6 x 8 W 3 x 6 W	High Contrast	470 x 340 x 135 mm
UVT-20 ML	29 76 600	29 76 650	312 (302) nm + 365 nm	6 x 8 W 5 x 8 W	Advanced	470 x 340 x 135 mm
UVT-20 MV	29 77 100	29 77 150	312 (302) nm variable Intensity	6 x 8 W	Advanced	470 x 340 x 135 mm
UVT-20 MV-HC	29 77 105	29 77 155	312 (302) nm variable Intensity	6 x 8 W	High Contrast	470 x 340 x 135 mm
UVT-20 L	29 70 000	29 70 050	365 nm	6 x 8 W	Standard	470 x 340 x 135 mm
UVT-20 LE	29 70 010	29 70 060	365 nm	6 x 8 W	Economy	310 x 316 x 80 mm
UVT-20 L / W	29 75 200	29 75 250	365 nm + White light	6 x 8 W 3 x 6 W	Standard	470 x 340 x 135 mm
UVT-20 LV	29 77 200	29 77 250	365 nm variable Intensity	6 x 8 W	Advanced	470 x 340 x 135 mm
UVT-20 BE-LED	29 78 200	29 78 250	Blue light LED	LED	Economy	310 x 316 x 80 mm

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Filter Size 22 x 28 cm

Model	Cat. No. 230 V	Cat. No. 110 V	Wave Length	No. of Tubes	Class	Dimensions of housing
UVT-28 S	29 60 100	29 60 150	254 nm	8 x 8 W	Standard	470 x 340 x 135 mm
UVT-28 SE	29 70 130	29 70 180	254 nm	8 x 8 W	Economy	310 x 316 x 80 mm
UVT-28 SV	29 77 400	29 77 450	254 nm variable intensity	8 x 8 W	Advanced	470 x 340 x 135 mm
UVT-28 M	29 65 100	29 65 150	312 (302) nm	8 x 8 W	Standard	470 x 340 x 135 mm
UVT-28 M-HC	29 65 105	29 65 155	312 (302) nm	8 x 8 W	High Contrast	470 x 340 x 135 mm
UVT-28 ME	29 70 120	29 70 170	312 (302) nm	8 x 8 W	Economy	310 x 316 x 80 mm
UVT-28 ME-HC	29 70 125	29 70 175	312 (302) nm	8 x 8 W	High Contrast	310 x 316 x 80 mm
UVT-28 MV	29 77 500	29 77 550	312 (302) nm variable intensity	8 x 8 W	Advanced	470 x 340 x 135 mm
UVT-28 MV-HC	29 77 505	29 77 555	312 (302) nm variable intensity	8 x 8 W	High Contrast	470 x 340 x 135 mm
UVT-28 L	29 70 100	29 70 150	365 nm	8 x 8 W	Standard	470 x 340 x 135 mm
UVT-28 LE	29 70 110	29 70 160	365 nm	8 x 8 W	Economy	310 x 316 x 80 mm
UVT-28 LV	29 77 600	29 77 650	365 nm variable intensity	8 x 8 W	Advanced	470 x 340 x 135 mm
UVT-28 BE-LED	29 78 280	29 78 280	Blue light LED	LED	Economy	310 x 316 x 80 mm
UVT-28 WE-LED	29 75 280	29 75 280	White light LED	LED	Economy	310 x 316 x 80 mm

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Filter Size 20 x 40 cm

Model	Cat. No. 230 V	Cat. No. 110 V	Wave Length	No. of Tubes	Class	Dimensions of housing	
UVT-40 S	29 60 200	29 60 250	254 nm	6 x 15 W	Standard	470 x 340 x 135 mm	
UVT-40 SV	29 77 700	29 77 750	254 nm variable intensity	6 x 15 W	Advanced	470 x 340 x 135 mm	
UVT-40 M	29 65 200	29 65 250	312 (302) nm	6 x 15 W	Standard	470 x 340 x 135 mm	
UVT-40 M-HC	29 65 205	29 65 255	312 (302) nm	6 x 15 W	High Contrast	470 x 340 x 135 mm	
UVT-40 MV	29 77 800	29 77 850	312 (302) nm variable intensity	6 x 15 W	Advanced	470 x 340 x 135 mm	
UVT-40 MV-HC	29 77 805	29 77 855	312 (302) nm variable intensity	6 x 15 W	High Contrast	470 x 340 x 135 mm	
UVT-40 L	29 70 200	29 70 250	365 nm	6 x 15 W	Standard	470 x 340 x 135 mm	
UVT-40 LV	29 77 900	29 77 950	365 nm variable intensity	6 x 15 W	Advanced	470 x 340 x 135 mm	
UVT-40 W	29 75 300	29 75 350	White light	6 x 15 W	Standard	470 x 340 x 135 mm	

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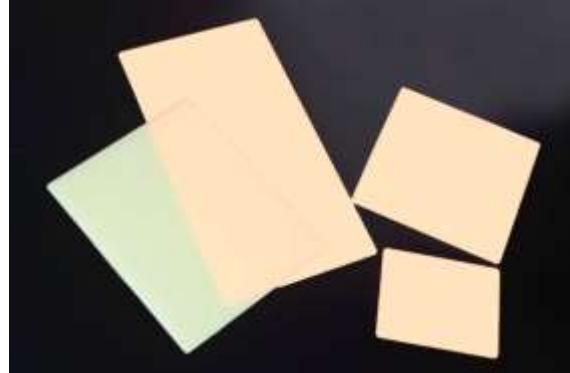
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Accessories and Spare Parts

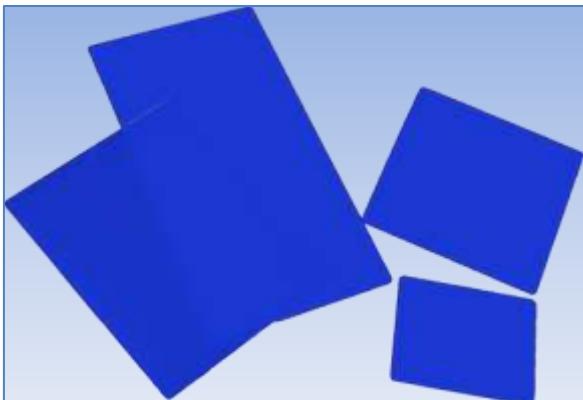
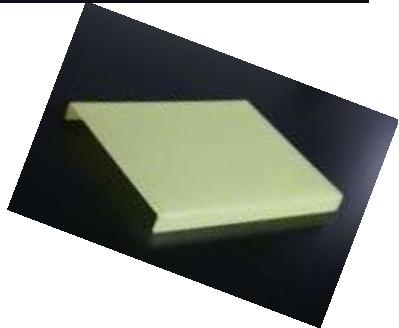
RadiCon® Plates (UV to White light Converter)

The Herolab RadiCon® plate converts UV light into visible light.

The combination of this low-cost plate with a UV transilluminator replaces an extra white light table. This is especially convenient for all those who often need to switch between applications requiring UV light or white light.



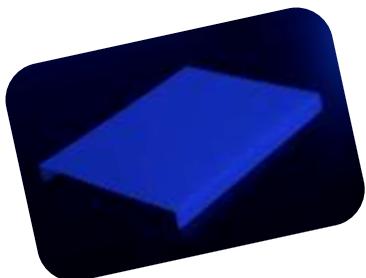
Cat. No.	For Filter Size	Version	
29 86 000	11 x 14 cm	plain	
29 86 100	20 x 20 cm	plain	
29 86 200	22 x 28 cm	plain	
29 86 210	22 x 28 cm	with support	
29 86 300	20 x 40 cm	plain	



RadiCon® BLUE Plates (UV to Blue light Converter)

The Herolab RadiCon® BLUE plate converts UV light into blue light (420 – 500 nm).

The combination of this low-cost plate with a UV transilluminator replaces an extra blue light table. This is especially convenient for all those who often need to switch between applications requiring UV light or blue light.



Cat. No.	For Filter Size	Version	
29 89 000	11 x 14 cm	plain	
29 89 100	20 x 20 cm	plain	
29 89 200	22 x 28 cm	plain	
29 89 210	22 x 28 cm	with support	
29 89 300	20 x 40 cm	plain	

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Filter Protection Plates

The danger of damaging the expensive UV filter of a transilluminator through preparative work using a scalpel is very high.

This can be avoided by covering the filter with the Herolab filter protection plate, made of 3 mm thin UV transparent acrylic glass. **But this plate does not provide any UV protection!**



1 Safety Advice:

**Always wear face/eye protection
when working with UV light!**

Cat. No.	For Filter Size
29 87 000	11 x 14 cm
29 87 100	20 x 20 cm
29 87 200	22 x 28 cm
29 87 300	20 x 40 cm

UV Protection

Cat. No.	Description
29 59 298	UV Protection Shield with hinges for Economy Transilluminators UVT-14 and UVT-22
29 70 098	UV Protection Shield with hinges for Economy Transilluminators UVT-20 and UVT-28
29 93 100	UV Protection Glasses
29 93 000	UV Full Face Protection



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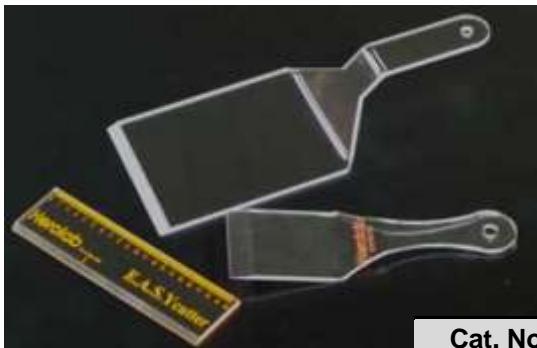
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Accessories Blue Light

Cat. No.	Description
29 88 280	Orange Plate
29 93 150	Orange Glasses



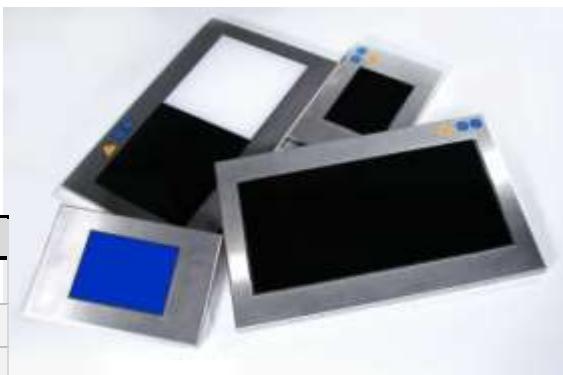
Gel Scoops Gel Cutter

Cat. No.	Description
29 85 100	UV transparent gel scoop, 75 mm
29 85 200	UV transparent gel scoop, 150 mm
29 85 300	Fluorescent gel cutter, with ruler 20 cm

Replacement Filters

Herolab LongLife® with Stainless Steel Frame
(for other units on request)

For Model	Filter Size	Cat. No.
UVT-14 M	11 x 14 cm	29 80 600
UVT-22 M	14 x 22 cm	29 80 610
UVT-20 M	20 x 20 cm	29 80 000
UVT-28 M	22 x 28 cm	29 80 200
UVT-40 M	20 x 40 cm	29 80 100
Combi units	20 x 20 cm each	29 80 300
White Light	20 x 40 cm	29 80 400
Blue Light	11 x 14 mm	29 80 700
Blue Light	20 x 20 mm	29 80 710
Blue Light	22 x 28 mm	29 80 720



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Replacement Tubes



For Model		Energy	Wave Length	No. of Tubes per Unit	Cat. No.	
UVT-14 UVT-22	S	6 Watt	254 nm	4	29 84 800	
	M	6 Watt	312 (302) nm	4	29 84 900	
	L	6 Watt	365 nm	4	29 85 000	
UVT-20	S	8 Watt	254 nm	6	29 84 300	
	M	8 Watt	312 (302) nm	6	29 84 400	
	L	8 Watt	365 nm	6	29 84 500	
UVT-20 Combi units	S	8 Watt	254 nm	6	29 84 300	
	M	8 Watt	312 (302) nm	6	29 84 400	
	L	8 Watt	365 nm	6	29 84 500	
UVT-28	SML	6 Watt	White Light	je 3	29 84 600	
	S	8 Watt	254 nm	8	29 84 300	
	M	8 Watt	312 (302) nm	8	29 84 400	
UVT-40 White light units	L	8 Watt	365 nm	8	29 84 500	
	S	15 Watt	254 nm	6	29 84 000	
	M	15 Watt	312 (302) nm	6	29 84 100	
UVT-14 BE UVT-20 BE UVT-28 BE	L	15 Watt	365 nm	6	29 84 200	
	W	15 Watt	White Light	2	29 84 700	
UVT-14 BE		18 Watt	Blue Light	1	29 84 650	
UVT-20 BE		18 Watt	Blue Light	2	29 84 650	
UVT-28 BE		18 Watt	Blue Light	3	29 84 650	

Other accessories and spare parts on request.

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