



SAUNA LIGHT.SOUND

Product Catalogue
Season 2023/2024

www.collaxx.com

Infrared Cabin

for wooden cabins
with infrared heaters

Bio Sauna

for wooden cabins
with evaporator unit

Finnish Sauna

for saunas up to 125°C
also in the ceiling area

Steam Bath

for tiled rooms
with steam generator

Utility Room

for installation
outside the cabin

Legend



150°C Permanent Temperature
for mounting directly above the sauna heater



125°C Permanent Temperature
for use in saunas including the ceiling area



85°C Permanent Temperature
suitable for steam bath



45°C Permanent Temperature
for installation outside the cabin



Invisible Mounting



Steam Bath Proof
for tiled rooms with steam generator



Lifetime Battery



LED Indicator
for function control



HiFi Audio Quality



Made in Austria

mse elektronik gmbh

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Made in Austria

collaxx products are exclusively
developed and produced in Austria.



Preface

19 years ago, when I drew the first sketches of a circuit diagram for a high-quality, sauna-proof colour light unit in my newly established engineering office, I could not have imagined what followed next. What started with a sketch turned into a lifelong passion. However, one commission led to the next one. Then we applied for our first patent and finally, I launched collaxx as a brand of mse elektronik gmbh, on the Austrian market.

collaxx colour light units are highly demanded because of their quality. As far as we can, we rely on Austrian suppliers, which pays back effectively. collaxx colour light units are unique: They were originally developed for commercial use. We are very proud of the fact that our products are the only ones resisting long-term temperatures of 125 °C (257 °F).

But all this would not be worth a penny, if I did not have an awesome, well-coordinated team that works together collaboratively. This is why this catalogue does not only include our products, it also takes you on a tour „behind the scenes“. collaxx does not only represent colour authenticity and quality. collaxx also represents true dedication, commitment and attention to detail.

Thank you for sharing these values with us! On behalf of the whole collaxx-team I wish you an enjoyable read.



Martin Schmidlechner, MSc.



collaxx: Short introduction to a brand

collaxx is the brand of a company that has been known for many years for its innovative strength and ingenuity:

mse elektronik gmbh.

The company was founded by Martin Schmidlechner (MSc.) and Hannes Landertshamer (BSc.) in 2004 as a company in the field of industrial and automotive electronics in Frankenburg (Upper Austria).

Today the company has another headquarter in Graz. Since its founding, it has grown remarkably. One of our main principles is that the **development**, as well as the **production** take place in-house. Furthermore, we attach great importance to the use of **high-quality raw materials** only.

In 2008 the brand collaxx was established by mse elektronik gmbh. Our colour light units made in Austria have become a top brand, that is known for its outstanding quality. collaxx-products represent high standards in production and service.

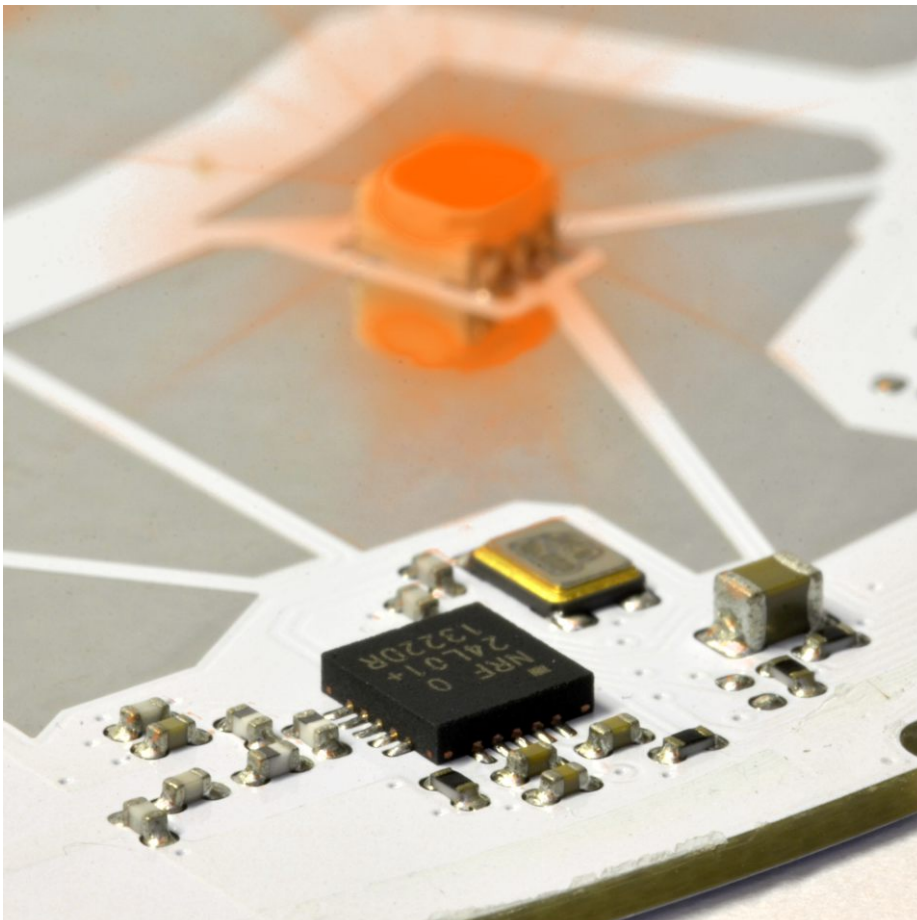











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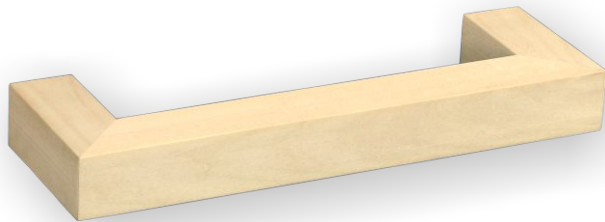
Infrared Cabin

Bio Sauna

Finnish Sauna

GENTLE SHINE GS26

Characterful Wall Lamp



125°C

invisible
mounting

flicker-free

service
friendly

made in Austria

- ✔ LED replacement for spot lighting
- ✔ Georg Kammerlochner design
- ✔ Calibrated warm white with 2,700 Kelvin
- ✔ Combinable with all collaxx products



CONTROL ADAPTER WITH INRUSH CURRENT LIMITER

By default, the Gentle Shine comes with a Control Adapter, which allows it to be directly connected to the light relay of any sauna controller.




INVISIBLE MOUNTING

With a flush-set grub screw, mounting is reliable and nearly invisible. The enclosed drilling and sizing template ensures easy positioning.

TECHNICAL DATA

Type of wood	Linden
Dimensions [mm]	260 x 30 x 80
Weight [g]	210
Brightness [lm]	30
Invisible mounting	✓
Pastel colours	✗
Operating voltage	12V _{DC} 0.2A
Ambient temperature	0 ... 125°C
LED lifetime [h]	30,000
Automatic mode	✗
Status memory	✓



GS26	
Type of wood	Linden
Dimensions [mm]	260 x 30 x 80
Weight [g]	210
Brightness [lm]	30
Invisible mounting	✓
Pastel colours	✗
Operating voltage	12V _{DC} 0.2A
Ambient temperature	0 ... 125°C
LED lifetime [h]	30,000
Automatic mode	✗
Status memory	✓



The Gentle Shine is ideal for staging wood designs.



CEILING PANELS



FL50

Little Miracle



125°C

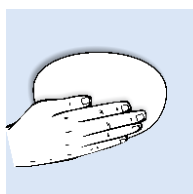


flicker-free

integrated
LED controllerinvisible
mounting

made in Austria

- ☑ Cabins up to 1.3 x 1.3m
- ☑ 18 Power LEDs from Osram
- ☑ Touch control or radio remote control
- ☑ Programmable colour interval
- ☑ Flicker-free and smooth colour transitions



FL50T WITH TOUCH CONTROL



The FL50T responds to a soft touch and has an automatic colour change with freely programmable time interval. The status memory always starts with white after an interruption of power supply.



FL50F WITH RADIO REMOTE CONTROL

Additionally the FL50F is dimmable and can be controlled wirelessly with all collaxx control options. For larger cabins, several lamps can be operated in parallel. The device is also popular as an indirect light source.

TECHNICAL
DATA

	 FL50T	 FL50F
Dimensions [mm]	Ø135 x 35	Ø135 x 35
Weight [g]	125	125
Brightness [lm]	96	96
Invisible mounting	✓	✓
Homogeneous light	✓	✓
Pastel colours	✗	✓
Operating voltage	12V _{DC} 1A	12V _{DC} 1A
Ambient temperature	0 ... 125°C	0 ... 125°C
LED lifetime [h]	30,000	30,000
Automatic mode	✓	✓
Status memory	✓	✓

INVISIBLE MOUNTING



All FL50 models are mounted with an invisible **bayonet lock**. They do not require a ceiling cutout and are therefore also ideal for **upgrading** existing saunas.



„We install collaxx colour lights in our saunas because it is a high quality and beautiful light with a good control. The devices are very durable and the service is perfect as well!“

*Peter Stoff
Stoff GmbH*

Infrared Cabin

Bio Sauna

Finnish Sauna

FL201

Particularly Luminous



125°C



flicker-free



dimmable



made in Austria

- ✓ Cabins up to 2.5 x 2.5m
- ✓ 56 Power LEDs from Osram
- ✓ Homogeneous illumination
- ✓ Unique design
- ✓ Easy installation

FLUSH WITH THE CEILING





The flush version **FL201VF** can be seamlessly integrated into the ceiling with a protrusion of only 3.5mm.

It is developed and produced directly by us in **Austria** and designed for demanding commercial operation like all collaxx products.

On page 52 you will find the sound-capable Music Edition **FL201 Music**.

TECHNICAL DATA

Type of wood
 Dimensions [mm]
 Ceiling cutout [mm]
 Weight [g]
 Brightness [lm]
 Invisible mounting
 Homogeneous light
 Pastel colours
 Operating voltage
 Ambient temperature
 LED lifetime [h]
 Automatic mode
 Status memory
 Sound capable

	 surface mounted	 flush with the ceiling
Type of wood	Alder	Alder
Dimensions [mm]	320 x 235 x 35	320 x 235 x 35
Ceiling cutout [mm]	–	300 x 215
Weight [g]	730	600
Brightness [lm]	290	290
Invisible mounting	×	×
Homogeneous light	✓	✓
Pastel colours	✓	✓
Operating voltage	12V _{dc} 2A	12V _{dc} 2A
Ambient temperature	0 ... 125°C	0 ... 125°C
LED lifetime [h]	30,000	30,000
Automatic mode	✓	✓
Status memory	✓	✓
Sound capable	×	→ page 52





Infrared Cabin

Bio Sauna

Finnish Sauna

FL202

Powerful and Trendy



125°C



integrated
LED controller



invisible
mounting



made in Austria

- ✓ Cabins up to 2.5 x 2.5m
- ✓ 56 Power LEDs from Osram
- ✓ Outstanding product design
- ✓ Homogeneous illumination
- ✓ Flicker-free and dimmable

CONTROL OPTIONS



Wall Remote Control
12 different types of wood
available → [page 40](#)



Hand Remote Control
Patented operation with
4 keys → [page 41](#)



DMX Interface
Compatible with Sentiotec,
KNX, Loxone... → [page 42](#)



Fasel Interface
Colour light directly control-
able in menu → [page 43](#)



Control Adapter
Switching the light with
the light relay → [page 44](#)

TECHNICAL DATA

Type of wood
Dimensions [mm]
Ceiling cutout [mm]
Weight [g]
Brightness [lm]
Invisible mounting
Homogeneous light
Pastel colours
Operating voltage
Ambient temperature
LED lifetime [h]
Automatic mode
Status memory
Sound capable

	FL202 Obeche	FL202 Acacia
Type of wood	Obeche	Steamed Acacia
Dimensions [mm]	275 x 190 x 33	275 x 190 x 33
Ceiling cutout [mm]	–	–
Weight [g]	450	450
Brightness [lm]	290	290
Invisible mounting	✓	✓
Homogeneous light	✓	✓
Pastel colours	✓	✓
Operating voltage	12V _{DC} 2A	12V _{DC} 2A
Ambient temperature	0 ... 125°C	0 ... 125°C
LED lifetime [h]	30,000	30,000
Automatic mode	✓	✓
Status memory	✓	✓
Sound capable	×	×

Obeche



Acacia





„At Delfin Wellness, we are about class not mass, people not markets, and sustainability. For us, long-term success is closely linked to high-quality products. Therefore, we use colour light units and batten lights from collaxx. The products made in Austria impress with their intense, homogeneous light. Thanks to their patented Heat Proof Technology, they are extremely durable.“

*Reinhard Scharinger
Delfin Wellness GmbH*

Infrared Cabin

Bio Sauna

Finnish Sauna

Steam Bath



FL2000

Versatile Top Model



BRIGHTNESS

- 360 lm
- 70 lm
- 260 lm
- 245 lm
- 360 lm
- 460 lm
- 365 lm
- 345 lm



125°C



flicker-free



dimmable



invisible mounting



integrated LED controller

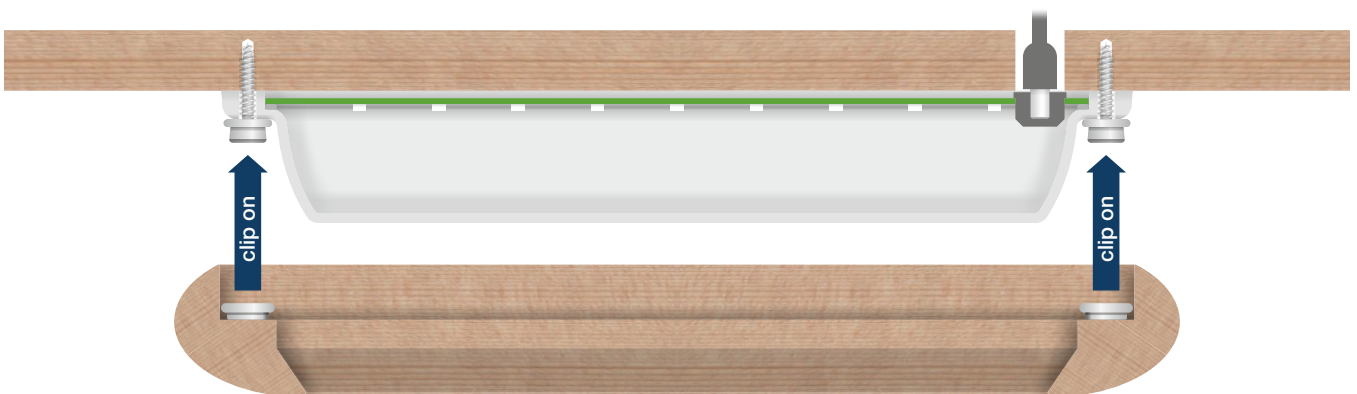


commercial use



made in Austria

- ⊗ Sufficient for cabins up to 3.5 x 3.5m
- ⊗ Super bright due to 90 Power LEDs from Osram
- ⊗ Perfectly homogeneous due to specially developed diffusing plastomer
- ⊗ Synchronous operation for large commercial saunas
- ⊗ Undestroyable due to Heat Proof Technology



classic

modern

exclusive

flush with ceiling

steam bath proof



FL2000 classic



- ✔ Established design
- ✔ Gently rounded edges
- ✔ Harmonious and finely tuned



- ✔ Timeless elegance
- ✔ Striking appearance

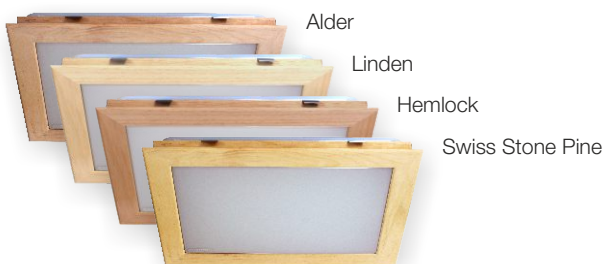
FL2000 modern



FL2000 exclusive



- ✔ Special touch
- ✔ Noble wood combination
- ✔ High quality workmanship
- ✔ Unique eye-catcher



- ✔ Perfect integration
- ✔ Easy mounting

FL2000 flush with the ceiling



FL2000 frameless



- ✔ Perfectly integrated
- ✔ Homogeneous and intensive
- ✔ Robust and indestructible



FL2000 steam bath proof

- ✔ Electronics with silicone encapsulation
- ✔ Without wooden frame
- ✔ Waterproof for steam baths



TECHNICAL DATA

	 classic	 modern	 exclusive	 flush w. ceiling	 frameless	 steam bath
Available types of wood	Obeche, Alder, Cedar	Alder, Hemlock, American Nut	Obeche/Wenge, Wenge/Obeche	Alder, Hemlock, Linden, Swiss Stone Pine	–	–
Dimensions [mm]	363 x 267 x 35	352 x 256 x 35	360 x 264 x 35	361 x 266 x 35	336 x 241 x 35	336 x 241 x 35
Ceiling cutout [mm]	–	–	–	345 x 255	ev. 291 x 196 w. miter 30°	–
Weight [g]	900	900	900	850	620	900
Brightness [lm]	460	460	460	460	460	460
Invisible mounting	✔	✔	✔	✔	○	×
Homogeneous light	✔	✔	✔	✔	✔	✔
Pastel colours	✔	✔	✔	✔	✔	✔
Operating voltage	12V _{DC} 2A	12V _{DC} 2A	12V _{DC} 2A	12V _{DC} 2A	12V _{DC} 2A	12V _{DC} 2A
Ambient temperature	0 ... 125°C	0 ... 125°C	0 ... 125°C	0 ... 125°C	0 ... 125°C	0 ... 125°C
LED lifetime [h]	30,000	30,000	30,000	30,000	30,000	30,000
Automatic mode	✔	✔	✔	✔	✔	✔
Sound capable	×	×	×	→ page 52	→ page 52	×



Infrared Cabin

Bio Sauna

Finnish Sauna

EDGE LIT COLOUR LIGHT 50x50 | 75x30

Large and Modular

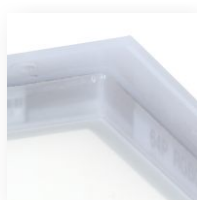


125°C

commercial
useinvisible
mounting

made in Austria

- ☑ Cabins up to 3.5 x 3.5m
- ☑ High quality finishing
- ☑ Extremely flat design
- ☑ Homogeneous light till the edge



FLUSH INSTALLATION

The protruding **mounting flange** allows the lamp to be recessed completely flush into the sauna ceiling.



INVISIBLE MOUNTING


With the optional **clip-on wooden frame**, the light can be mounted easily and invisibly on the ceiling.

TWO SIZES AVAILABLE



The luminaire is available in the square version **KE 50x50cm** as well as in the oblong version **KE 75x30cm** to match the cabin design.

TECHNICAL
DATA

	 KE 50x50cm	 KE 50x50cm with wooden frame	 KE 75x30cm	 KE 75x30cm with wooden frame
Dimensions [mm]	530 x 530 x 18	539 x 539 x 18	780 x 330 x 18	790 x 339 x 18
Ceiling cutout [mm]	503 x 503	–	754 x 302	–
Weight [kg]	4.4	4.7	5.9	6.2
Brightness [lm]	250	250	250	250
Invisible mounting	✓	✓	✓	✓
Homogeneous light	✓	✓	✓	✓
Pastel colours	✓	✓	✓	✓
Operating voltage	12V _{DC} 1.5A	12V _{DC} 1.5A	12V _{DC} 1.6A	12V _{DC} 1.6A
Ambient temperature	0 ... 125°C	0 ... 125°C	0 ... 125°C	0 ... 125°C
LED lifetime [h]	30,000	30,000	30,000	30,000
Automatic mode	✓	✓	✓	✓
Status memory	✓	✓	✓	✓



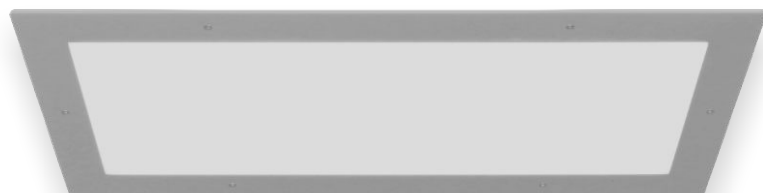
Infrared Cabin

Bio Sauna

Finnish Sauna

EDGE LIT COLOUR LIGHT 66x27 | 127x27

Real Eyecatcher



125°C

integrated
LED controllerservice
friendly

made in Austria

- ✓ Cabins up to 3.5 x 3.5m
- ✓ No separate frame required
- ✓ Extremely flat design
- ✓ Perfectly homogeneous light

FLUSH WITH THE CEILING



- just 3mm protrusion
- modern metallic look
- perfectly homogeneous illumination

TWO DIFFERENT LENGTHS



There are two sizes for you to choose from. The extremely compact design protrudes only 15mm into the ceiling. Thus, there is no thermal bridge, as it is not necessary to break the vapor barrier or add cut outs to the insulation.

TECHNICAL
DATA

	KE 66x27cm	KE 127x27cm
Dimensions [mm]	745 x 355 x 18	1.355 x 355 x 18
Ceiling cutout [mm]	670 x 280 x 15	1.280 x 280 x 15
Weight [kg]	4.1	7.9
Brightness[lm]	250	450
Invisible mounting	×	×
Homogeneous light	✓	✓
Pastel colours	✓	✓
Operating voltage	12V _{DC} 1.4A	12V _{DC} 2.6A
Ambient temperature	0 ... 125°C	0 ... 125°C
LED lifetime [h]	30,000	30,000
Automatic mode	✓	✓
Status memory	✓	✓

REPLACE TUBE LIGHTS



The dimensions of the two models KE 66x27cm as well as KE 127x27cm are perfect for replacing and old EOS FL 2000 or EOS FL 2001 **tube lamp**.

collaxx: Impossible? – Not for us!

Our **product development** is best described using one word: flexible. Thanks to our motivated team, a flat hierarchy and little bureaucracy, we achieve what others still dream of: We develop high-end products and are dedicated to fulfil almost every customer's wish in the shortest possible time.

We develop our own software – and are thus proud pioneers in the field of colour lights!

Only the collaxx software guarantees high-temperature-resistant products with flicker-free light quality. Our development team is always happy to solve new challenges and come up with something special.

In the next paragraph you will get an insight of Dietmar's work for collaxx and the development of our proprietary software.

Dietmar is an experienced technician at collaxx and specialises in development of static firmware. This is the absolute supreme discipline of software development. In contrast to today's practice, it is not possible to correct any errors in our products by means of subsequent updates. Dietmar is a true expert in this field and his expertise is of great value to the company.

As a very conscientious person, Dietmar attaches great importance to ensuring that every detail is solved correctly and that the products developed offer the highest quality. He is always striving to meet the customer's demands and fulfil individual customer requests. With his technical expertise and knowledge, he consistently succeeds in developing innovative solutions. Dietmar enjoys tinkering and continuously improving the products. He is always looking for new ways to optimise the performance and functionality of the firmware. With Dietmar as part of the team, collaxx can be confident that the products are equipped with the best firmware available. His expertise, drive for perfection and passion for technical innovation make him a valuable asset to the company.

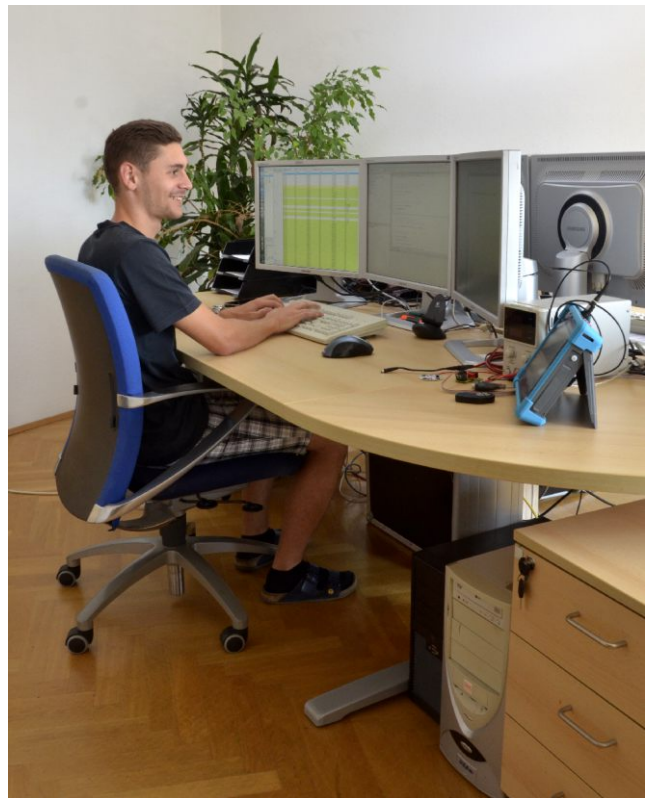


Fig. 1: A colour light unit runs over 10,000 lines of code

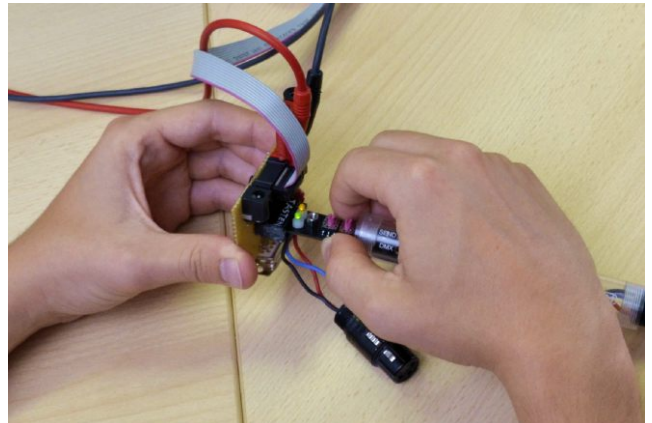


Fig. 2: Dietmar programming a DMX Interface

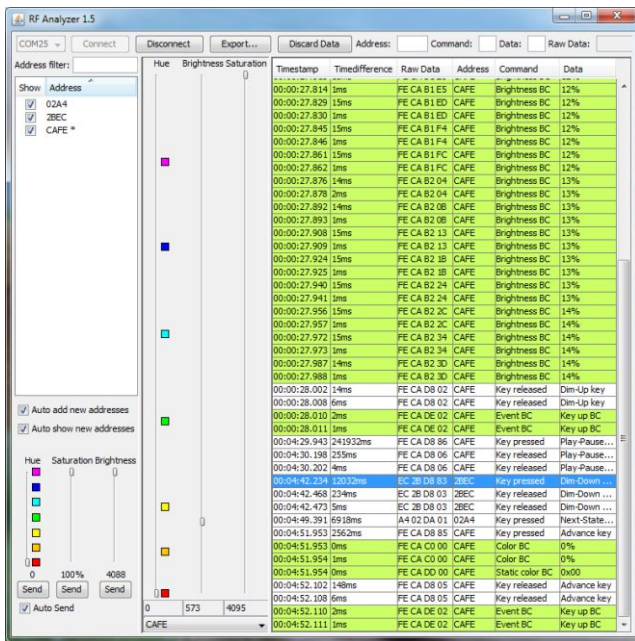


Fig. 1: The radio protocol of the colour light units is always monitored with an in-house developed diagnostic tool

Unique know-how

collaxx colour lights are smart devices that make your everyday life easier. Integrated temperature sensors allow the LEDs to respond to heat individually. So they are guaranteed to be protected from overheating for a whole service-life.

What Dietmar thinks about working for mse elektronik gmbh, manufacturer of collaxx:

„Even when I started as a trainee at mse elektronik gmbh, I was trusted to work on own projects such as the collaxx DMX Interface. Today, I am studying at Graz University of Technology. I think this is a great opportunity to combine my university know-how with collaxx software development.“

collaxx-Tipp!

Our colour light devices can be controlled in many different ways.

More about this starting on page 38!

7 Reasons in favour of collaxx

Heat Proof Technology



The patented control process allows 30,000 hours of operation and permanently protects the LEDs at temperatures up to 150°C.

Designed for commercial saunas



Our know-how as well as high quality components allow maximum stress: Proven commercial operation since 18 years.

Product innovation factor



Every year, 25% of our sales are invested in product development. In-house research ensures highest quality.

2,500 working hours



At least 2,500 working hours of development time go into every new collaxx product. That's more than 1½ man-years.

10,000 lines of source code



from our own software development are required for the reliable operation of each individual colour light unit.

10 different programming languages



are used daily by the in-house development team to create the extremely robust operating software of our collaxx products.

Worldwide unique



The temperature resistance of up to 125°C required by the standard can only be achieved by our directly integrated LED drivers.



BATTEN LIGHTS



„We produce high quality saunas, infrared cabins and steam baths in our factory in Murg am Hochrhein. However, we can only deliver an exquisite end product if the choice of basic materials has already been made carefully. That is why we are partners of collaxx and appreciate their products.“

*Steffen Manz
manz-döbele GmbH*

Infrared Cabin

Bio Sauna

Finnish Sauna

MODULAR BATTEN LIGHTS

Playing With Possibilities



125°C



commercial use



integrated LED controller



made in Austria

- ✓ Available in 22cm and 49cm
- ✓ Calibrated colours
- ✓ Dimmable and flicker-free
- ✓ Combinable with all devices
- ✓ Multiple mounting possibilities
- ✓ With Heat Proof Technology

COVER CLASPS

For a high-quality look at the junctions and ends, even with flush-mounted modules.



FITTINGS LL49 SETS



cables



power supply

Set 1xLL49	1x 3m	12V _{DC} 1A
Set 2xLL49	1x 3m + 1x 1m	12V _{DC} 1A
Set 3xLL49	2x 3m + 1x 1m	12V _{DC} 2A
Set 4xLL49	2x 3m + 2x 1m	12V _{DC} 2A
Set 5xLL49	3x 3m + 2x 1m	12V _{DC} 3,3A
Set 6xLL49	3x 3m + 3x 1m	12V _{DC} 3,3A
Set 7xLL49	4x 3m + 3x 1m	12V _{DC} 5A
Set 8xLL49	4x 3m + 4x 1m	12V _{DC} 5A

FITTINGS LL22 SETS



cables



power supply

Set 1xLL22	1x 3m	12V _{DC} 1A
Set 2xLL22	1x 3m + 1x 1m	12V _{DC} 1A
Set 3xLL22	2x 3m + 1x 1m	12V _{DC} 1A
Set 4xLL22	2x 3m + 2x 1m	12V _{DC} 1A
Set 5xLL22	3x 3m + 2x 1m	12V _{DC} 1A
Set 6xLL22	3x 3m + 3x 1m	12V _{DC} 2A
Set 7xLL22	4x 3m + 3x 1m	12V _{DC} 2A
Set 8xLL22	4x 3m + 4x 1m	12V _{DC} 2A
Set 9xLL22	5x 3m + 4x 1m	12V _{DC} 2A
Set 10xLL22	5x 3m + 5x 1m	12V _{DC} 2A

TECHNICAL DATA

	LL22	LL49
Dimensions [mm]	220 x 15 x 15	490 x 15 x 15
Weight [g]	29	61
Brightness [lm]	45	120
Invisible mounting	×	×
Homogeneous light	✓	✓
Pastel colours	✓	✓
Operating voltage	12V _{DC} 0.2A	12V _{DC} 0.5A
Ambient temperature	0 ... 125°C	0 ... 125°C
LED lifetime [h]	30,000	30,000
Automatic mode	✓	✓
Status memory	✓	✓



DIRECT CONNECTOR

DC double plug for direct connection of two modular batten lights without DC cable in between.





„It is important to me to treat each customer as I would like to experience a sales conversation as a customer. The continuous batten lights from collax are really easy to handle, flicker-free and dimmable. A perfect eye-catcher in every professionally made sauna!“

*Claudia Görs
TEKA-Saunabau GmbH*

Infrared Cabin

Bio Sauna

Finnish Sauna

CONTINUOUS BATTEN LIGHTS

Seamless Integration



© TEKA-Saunabau GmbH



125°C



integrated
LED controller



service
friendly



made in Austria

- ✓ No glare thanks to milk glass
- ✓ Easy plug & play installation
- ✓ Direct or indirect mounting
- ✓ Up to 7 meters continuous light
- ✓ With Heat Proof Technology
- ✓ Developed for commercial use

TECHNICAL DATA



continuous
batten lights

Cross section [mm]	15 x 15
Weight [g/m]	130
Brightness [lm/m]	200
Invisible mounting	✓
Homogeneous light	✓
Pastel colours	✓
Operating voltage	12V _{DC} 1.05A/m
Ambient temperature	0 ... 125°C
LED lifetime [h]	30,000
Automatic mode	✓
Status memory	✓

HOLDING CLAMPS

The transparent holding clamps allow easy and service-friendly installation.



Dimensions (W x H):
19 x 17.5mm

AVAILABLE IN A 9cm LENGTH GRID

20cm	38cm	47cm	56cm	65cm	74cm	83cm
92cm	101cm	110cm	119cm	128cm	137cm	146cm
155cm	164cm	173cm	182cm	191cm	200cm	209cm
218cm	227cm	236cm	245cm	254cm	263cm	272cm
281cm	290cm	299cm	308cm	317cm	326cm	335cm
344cm	353cm					

DC plug

DC plug
on both sides

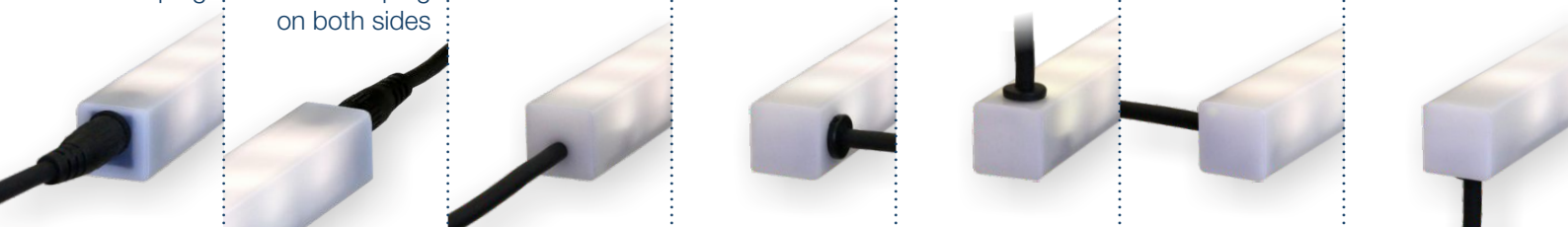
wire on front side

wire 0°

wire 90°

wire 180°

wire 270°





MAXIMUM LOADABLE BATTEN LIGHTS

For Extreme Conditions



© WELLNESSBEREICHE SETZ GmbH



150/175°C



steam bath
proof



integrated
LED controller



service
friendly



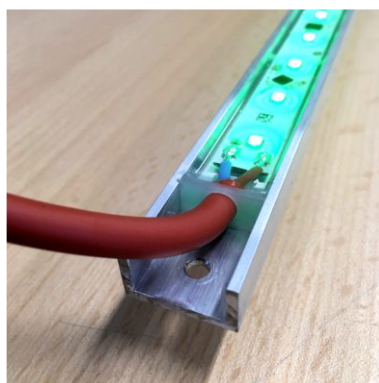
made in Austria

- ✔ Silicone potted aluminium profile
- ✔ Extremely resistant up to 150/175°C
- ✔ Installable directly above the sauna heater
- ✔ Suitable for steam baths thanks to IP65
- ✔ Extra flat design
- ✔ Designed for commercial use

SILICONE POTTET ALUMINIUM PROFILE

Full functionality up to an ambient temperature of 150°C. At higher temperatures up to a maximum of 175°C, the power supply is switched off internally.

Intended for use in the ceiling area directly above the sauna heater. Water-proof due to the fully potted design and therefore also suitable for steam baths.



TECHNICAL DATA

Cross section [mm]	20 x 10
Weight [g/m]	330
Brightness [lm/m]	200
Invisible mounting	×
Homogeneous light	×
Pastel colours	✓
Operating voltage	12V _{DC} 1.05A/m
Ambient temperature	0 ... 175°C
Protection class	IP65
LED lifetime [h]	30,000
Automatic mode	✓
Status memory	✓

maximum loadable batten lights

AVAILABLE IN A 9cm LENGTH GRID

24cm	42cm	51cm	60cm	69cm	78cm	87cm
96cm	105cm	114cm	123cm	132cm	141cm	150cm
159cm	168cm	177cm	186cm	195cm	204cm	213cm
222cm	231cm	240cm	249cm			

collaxx: colour light units made in Austria

You would like to know how we manufacture collaxx colour lights? Excellent! Join us on a tour behind the scenes! We show you how our colour light units are produced.

Where it begins: The production department

Our manufacturing department is small, but powerful. Our team does not miss anything in terms of efficiency. Melanie is also a part of the team and works for mse elektronik, producing collaxx products, for 12 years now.

For this catalogue, she has agreed to return to her beginnings and to build one of our much beloved products: a continuous batten light. We accompanied her and documented some of the production steps for you.

25 production steps and 500 small components or: Joy for a whole sauna-life!

Up to 500 small components are processed in one LED-strip (Fig. 1). Some of these small parts have a surface of only 0.5mm². Before processing these parts, Melanie mills and deburrs the end covers and DC jacks (Fig. 2).

In the next step, she calibrates, programs and tests the single PCBs (Fig. 3). Combining elements of different length guarantees flexible solutions. Our standard LED-strips consist of 22, 49 and 58cm long, fully autonomous segments.

Melanie uses press-fit technology in order to wire the strips (Fig. 4). This insulation displacing connection technology is more consistent than pure soldering, because it means more freedom of thermal movement for the boards.

Next, the light-strip is provided with a foil and tested with the supply wiring. If everything runs smoothly, Melanie glues the end-covers to the batten lights. Finally, the strip is packed, provided with a delivery note and dispatched to the customer.



Fig. 1: One LED strip consists of approximately 500 components. Each year, we process around 1 million of them.



Fig. 2: Melanie mills the end covers of the batten lights.



Fig. 3: Every LED-circuit has to pass 30 tests before it is released for assembly. Colours are calibrated to 0.25nm.

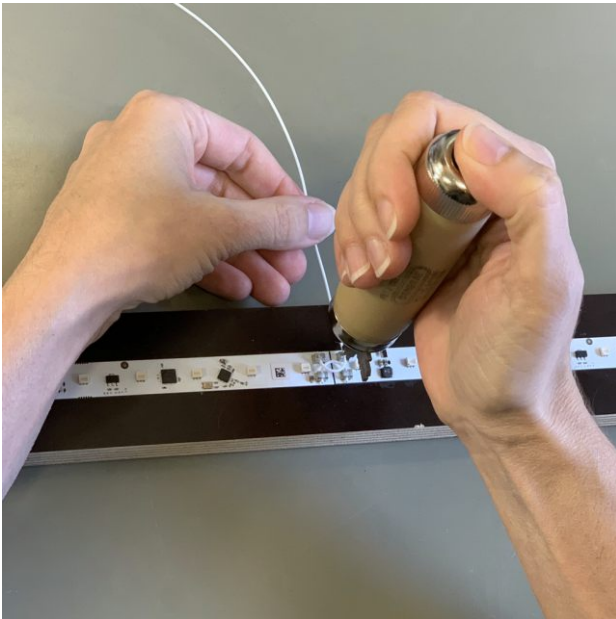


Fig. 4: Wiring the LED boards requires time and patience.

Convincing quality.

Purchasing collaxx lights is a safe investment in Austrian quality. They are infused with the passion for our products. The innovative **Heat Proof Technology** guarantees unique colour light units that provide you with homogeneous and long lasting light.

What Melanie thinks about working for mse elektronik gmbh, manufacturer of collaxx:

„When I start working in the morning, I just feel good. I feel like sitting in my living room and not necessarily at work. My colleagues are like some kind of extended part of my family. This joy that I feel flows into each and every collaxx light I produce. This is the kind of quality which I have fully dedicated myself.“

collaxx-Tipp!

Our continuous light strips are available in lengths from **20cm to 353cm** and also in 2,700 Kelvin dimmable warm white or steam bath proof.

Get **up to 7 meters of seamless continuous light** by lining up two light strips and feeding them from the two corners of the room.

Read more on page 31!

Temperature resistant **sealing ring**

Elongated hole f. thermal expansion

CNC injected **silicone sealing**

Temperature-resistant **housing**:
Protection against touch & moisture

Electrical **fuse**

LED driver for red

LED driver for green

Surge & reverse polarity protection

LED driver for blue

Digital **temperature sensor** with
0.1°C resolution as reliable protection
against overheating up to **150°C**

Ideal heat dissipation through high-
resolution **thermal simulation**

Software assures steady **colour tone**
through dimming and all temperatures

2.4GHz radio technology

High quality **OSRAM LEDs** with
automotive approval

High temperature multilayer board

Highly reliable **IDC wiring**
for at least 10,000 sauna cycles

Easy to assemble and service
thanks to compact **Holding Clamps**

Homogeneous illumination through
specially developed polycarbonate



WHITE LIGHT

2,700 Kelvin Dimmable Warm White



© TEKA-Saunabau GmbH



125°C



integrated
LED controller



commercial
use



made in Austria

- ✓ Calibrated 2,700K warm white
- ✓ Flicker free and dimmable
- ✓ Any combination possible
- ✓ 30,000h LED lifetime
- ✓ Heat Proof Technology



Whether ceiling panels or batten lights, **all collaxx colour lights** are also available in **2,700 Kelvin dimmable warm white**. They can easily be controlled by a 3-button hand remote control. Our wall remote control can be used as well.

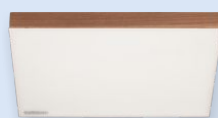
AVAILABLE FOR ALL COLLAXX COLOUR LIGHTS

FL201



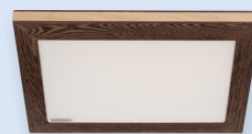
→ page 13

FL202



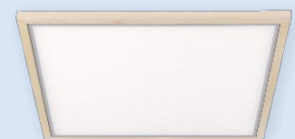
→ page 15

FL2000



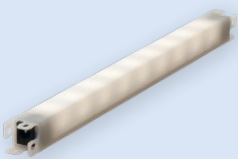
→ page 17 ff.

Edge lit colour lights



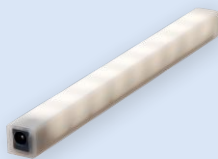
→ page 21 ff.

Modular batten lights



→ page 28 f.

Continuous batten lights



→ page 31

Maximum loadable
batten lights



→ page 33

Music Edition



→ page 52 f.

Infrared Cabin

Bio Sauna

Finnish Sauna

HAND REMOTE CONTROL for White Light



125°C



dimmable



LED indicator



lifetime battery



made in Austria

- ☑ 3-button operating concept
- ☑ Easy to integrate in existing cabins
- ☑ Maintenance free long life battery
- ☑ Control lamp

WALL REMOTE CONTROL for White Light



125°C



dimmable



invisible mounting



lifetime battery



made in Austria

- ☑ Quick and easy mounting
- ☑ Wireless & easy to retrofit
- ☑ Maintenance free long life battery
- ☑ 12 types of wood available from stock

i Automatic button has no function with white light

TECHNICAL DATA

Dimensions [mm]
Weight [g]
Invisible mounting
Protection class
Typical battery lifetime
Ambient temperature



hand remote control

75 x 39 x 16

25

–

IP54

10 years

0 ... 125°C



wall remote control

55 x 55 x 10

40

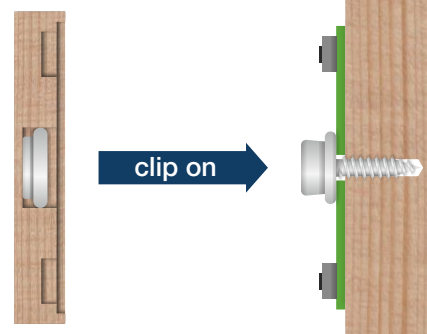
✓

IP44

10 years

0 ... 125°C

EASY MOUNTING



Alder Aspen thermally mod. Aspen Beech Red Cedar Hemlock Linden Oak Obeche Spruce thermally mod. Spruce Swiss Pine

CONTROL OPTIONS

All control options at a glance - you will find the details on the following pages!



DMX is the international standard in professional lighting technology. A DMX connection is offered for all common bus systems due to the simple specification. Proprietary low-cost systems with a closed product philosophy are excluded.

WALL REMOTE CONTROL

Noble Solid Wood



125°C



dimmable



invisible mounting



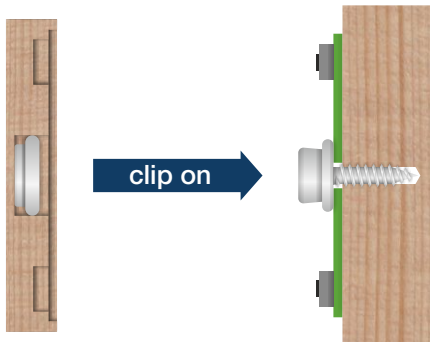
lifetime battery



made in Austria

- ☑ Quick and easy mounting
- ☑ Patented 4-button operating concept
- ☑ Easy to add
- ☑ Compatible with all colour light devices
- ☑ 12 different types of wood available
- ☑ Horizontal or vertical grain

EASY MOUNTING



RECESSED MOUNTING



For a particularly high-end appearance, the wall remote control can be **recessed flush** into the sauna wall. This is an excellent protection against vandalism as well.



Alder



Aspen



th. mod. Aspen



Beech



Red Cedar



Hemlock



Linden



Oak



Obeche



Spruce



th. mod. Spruce



Swiss Stone Pine

Infrared Cabin

Bio Sauna

Finnish Sauna

HAND REMOTE CONTROL

The Popular Classic



125°C



dimmable



LED indicator



lifetime battery



made in Austria

- ✓ Patented 4-button operating concept
- ✓ Programmable colour interval
- ✓ Compatible with all collaxx colour lights
- ✓ Maintenance free long life battery
- ✓ Control lamp

PATENTED 4-BUTTON OPERATING CONCEPT



Advance button

Switches to the next colour and activates the single colour mode.



Automatic button

Switches to the next colour and activates the automatic mode.



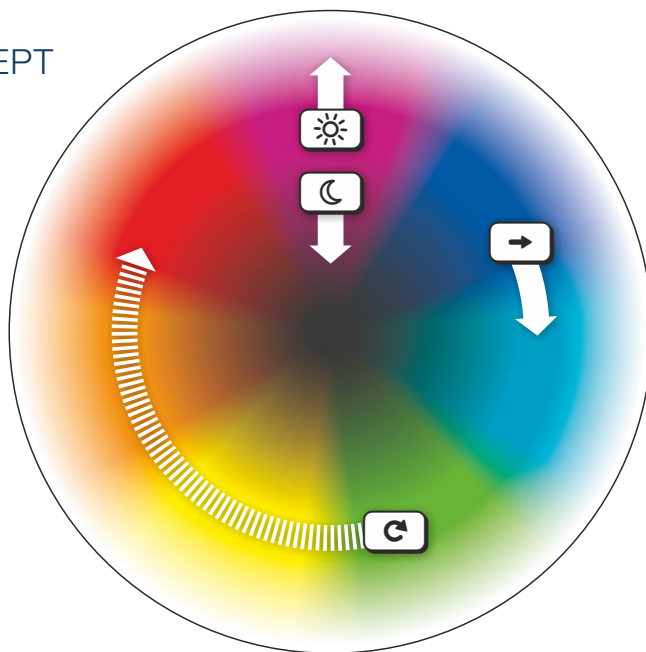
Brighter button

Increases the brightness or creates pastel colours and white.



Darker button

Decreases the brightness until the lamp is completely switched off.



TECHNICAL DATA

	wall remote control	hand remote control
Dimensions [mm]	55 x 55 x 10	75 x 39 x 16
Weight [g]	40	25
Invisible mounting	✓	-
Protection class	IP44	IP54
Typical battery lifetime	10 years	10 years
Ambient temperature	0 ... 125°C	0 ... 125°C

TEMPERATURE RESISTANT

All components – from the housing over the electronics to the battery – meet the specifications for "engine-related electronics in the automotive sector". Therefore they are **extremely robust** and reliable and designed for operation at **125°C continuous temperature**.

DMX INTERFACE

Maximum Compatibility



45°C



dimming
function



commercial
use



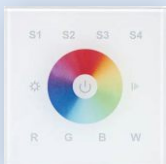
service
friendly



made in Austria

- ✔ Up to 99 devices individually controllable
- ✔ Adjustable hue, saturation and brightness
- ✔ Allows complex lighting effects
- ✔ No cable connection to the colour lights
- ✔ 2 status LEDs allow easy diagnostics
- ✔ No separate power supply required

COMPATIBLE WITH ALL DMX DEVICES



Integration into
existing DMX Systems



Standalone DMX Controller



USB DMX Interface

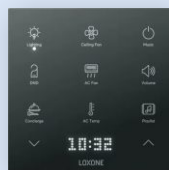


DMX Light Mixer

VARIOUS CONNECTING POSSIBILITIES



KNX Home Automation



Loxone Smart Home



DALI Light Control



Sentiotec home.com4

FASEL INTERFACE

Plug & Play



45°C



dimming function



commercial use



service friendly





made in Austria

- ⊙ 4 brightness levels
- ⊙ 7 colours available
- ⊙ Compatible with the Fasel RGB Extension
- ⊙ Available for Fasel FCU3xxx & FCU4xxx
- ⊙ 2 status LEDs allow easy diagnostics
- ⊙ No separate power supply required

COMBINABILITY

	 KNX	 Loxone	 DALI	 Stand-alone	 Light Mixer	 PC Notebook	 Sentiotec	 Fasel
Single colour selectable	✓	✓	✓	✓	✓	✓	✓	✓
Programmable colour change	✓	✓	✓	✓	✗	✓	✗	✓
Controllable from inside the cabin	✓	✓	✗	✓	✗	✓	✗	✓
Time control	✓	✓	✗	✓	✗	✓	✗	✓
Multiple colour groups	✓	✓	✓	✓	✓	✓	✓	✗
Effects	✓	✓	✗	✓	✗	✓	✗	✗

TECHNICAL DATA

	 DMX Interface	 Fasel Interface
Dimensions [mm]	20 x 21 x 196	97 x 40 x 20
Weight [g]	89	33
Connectors	XLR plug & jack	RJ45 jack
Power supply	via DMX signal	via Fasel control
Protection class	IPX0	IPX0
Ambient temperature	0 ... 45°C	0 ... 45°C

CONTROL ADAPTER with Inrush Current Limiter



45°C



made in Austria

- ✓ Protects weak light relays
- ✓ UL1412 approval
- ✓ Convenient on and off switching

- Limiting the inrush current to only 5A_{eff}* – therefore even suitable for the **weakest light relays**.
- Safety first: Current limiting by integrated fuse resistor with **UL1412 approval**.
- Conveniently **switch the Colour Light on and off** directly with the light output of the oven control.
- **State memory** retains last colour, automatic colour change or white light.
- **Euro coupling** for easy connection of the power supply up to 12V/2A.
- Cable end with **end sleeves** for direct connection to the light output of the sauna control.

*) This corresponds to the cold resistance of a normal 75W incandescent lamp.

Every modern plug-in power supply has a relatively high inrush current of approximately **60 amperes**.

Although this charging current just flows for a millisecond, it's sufficient to **weld the contacts** of a too small relay.

As a result, the light output is **broken**, and can never turn off again.

The Control Adapter solves this problem!

TECHNICAL DATA

Dimensions [mm]	65 x 42 x 25
Weight [g]	70
Line voltage [V _{ac}]	230
Cable length [m]	1.5
Output power [W]	≤35
Ambient temperature	0 ... 45°C



control adapter

LOCK / UNLOCK REMOTE CONTROL



85°C

lifetime
batteryLED
indicator

made in Austria

- ✓ Easy to use
- ✓ For commercial installations
- ✓ Allows parallel operation of several collaxx wireless groups



If multiple cabins with collaxx products are in the same building, **disabling the synchronization** is advised. Pairing between remote controls and cabins can be frozen with the **Lock/Unlock Remote Control**, such that a mis-synchronization can not occur.



It is essential to **make a record** when synchronization is locked on a particular project. Replacing the remote control or individual batten lights is only possible if the synchronization is unlocked – and subsequently locked again, if necessary. The Lock/Unlock Remote control is required on site then.

SELF EXPLANATORY OPERATION



Lock

Freezes an existing synchronization.
The devices light up blue or turquoise for confirmation.
Synchronizing is then no longer possible.



Unlock

Resolves an existing synchronization.
The devices light up green for confirmation.
Synchronization will then be possible again.

Locking and unlocking is only possible in the first 10 seconds after the supply voltage is switched on.

TECHNICAL DATA

Dimensions [mm]	75 x 39 x 16
Weight [g]	25
Protection class	IP54
Typical battery lifetime	10 years
Ambient temperature	0 ... 85°C



Lock/Unlock Controller

collaxx: Support in every situation!

When Sandra started working for the company in 2006, her responsibilities included accounting, payroll processing, warehouse organization, and shipping. Although she doesn't have a formal technical education, she quickly adapted and developed an impressive technical understanding.

She now handles repairs independently and is often faster than our technicians (Fig. 1 and 2).

However, Sandra is not only an expert in her field but also a mother of two who inspires the team with her loving and caring nature.

She is always there for her colleagues, providing support and assistance. Her friendly and open personality makes her a trustworthy contact person for customers.

Sandra takes the time to listen to customers and understand their needs. With her organized approach, she ensures that no inquiry goes unanswered and every customer receives the attention they deserve.

She excels in her excellent organizational skills. This ensures awareness of deadlines, projects, and tasks. With her efficient planning and structuring, Sandra ensures that everything runs smoothly. Her colleagues appreciate her ability to maintain an overview and coordinate workflows.

Sandra is the heart and soul of the company's team. She spreads positivity and is always ready to help others. Her friendly nature and smile are contagious, creating a pleasant work atmosphere. Sandra is a valuable addition to our team and contributes to everyone giving their best.

collaxx-Tipp!
For all concerns related to your sauna project, you can reach Sandra by phone at +43 (0) 316 / 57 22 49 or simply by email at sales@collaxx.com.

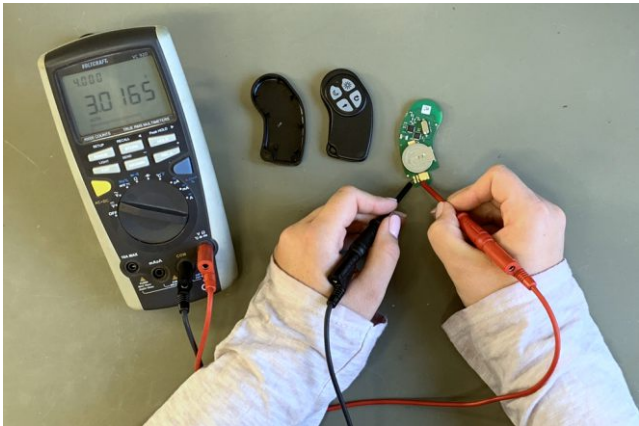


Fig. 1: Sandra is measuring the voltage of the device.



Fig. 2: Sandra manually soldering a remote control.

What Sandra thinks about working for mse elektronik gmbh, manufacturer of collaxx:

„I always felt very comfortable working here. When I went on maternity leave for the first time in 2016, I had absolutely mixed feelings. On the one hand, there was the anticipation of my little wonder, on the other hand, I somehow missed work and the whole team very much.“

Frequently asked Questions

Are collaxx colour lights also suitable for commercial saunas?

Yes. Our products have been developed primarily for commercial saunas. In contrast to conventional LED strips, our electronic is designed to withstand continuous temperatures of 125°C.

Do you really produce everything in Austria?

Yes. collaxx products are manufactured exclusively in our house by real handwork. Our name represents the excellence that comes with our products. This is the only way we can guarantee our high quality standards.

Why don't you use LED strips from China?

Back when collaxx was introduced to the European market, Chinese LED strips did not even exist. However, this does not matter at all, because Chinese LED strips are not suitable for ambient temperatures within sauna cabins. Only using highest quality electronic components and our own know-how guarantees the unreached reliability of our products.

Why is the battery in the remote control permanently soldered?

The battery is a special high temperature resistant type. This is not available in retail stores. Conventional coin cells are only suitable up to 70°C. The solder connection also prevents contact failures due to corroded battery contacts in humid environments.

Rumor says, LEDs last a maximum of 5 years. Is that correct?

No. To be honest, we are our biggest competition to our company. Once installed, our LEDs last at least 10 years thanks to the Heat Proof Technology. Even in saunas that are used commercially. It is important to us that our customers can enjoy collaxx products for many, many years.

7 Reasons in favour of collaxx



High quality raw materials

We acquire 50% of our components directly in Austria. 40% are supplied from our neighbor countries and only 10% from other countries.



Handmade guaranteed

Each colour light unit is handmade in our production and tested with all accessories before delivery.



Easy installation

Plug & Play is our slogan: All products are easy to install and work out of the box – therefore ideal for retrofitting.



Combinability

All collaxx colour light units can be combined with each other and are thus ideal for large commercial installations.



Homogeneous luminosity

Energy-efficient and continuously dimmable: Our LED technology guarantees absolutely flicker-free and intense enjoyment.



Calibrated colours

For each collaxx colour light unit, the colours are calibrated individually. Smooth colour transitions support your regeneration.



Made in Austria

Our products are developed and produced exclusively in our company in Austria and are extremely durable.

AUDIO SOLUTIONS



BLUETOOTHPLAYER

Flexible and Reliable



45°C



HiFi quality



service friendly



made in Austria

- ☑ Wirelessly connectable to smartphone
- ☑ Line input and output
- ☑ Digital amplifier with 2x18W
- ☑ Optionally with radio remote control
- ☑ Tool-free assembly due to pluggable cables

5 DIFFERENT MODES OF OPERATION



FREELY CONFIGURABLE

Numerous functions can be easily **activated or deactivated** by DIP switch:

- Bluetooth function
- Line input
- Automatic reconnection
- PIN code
- Automatic signal detection
- Mono or stereo
- Line output

DIAGNOSTIC LEDS

- Bluetooth
- Amplifier
- Remote control

TECHNICAL DATA



Bluetoothplayer

Dimensions [mm]	125 x 51 x 25
Weight [g]	60
Operating voltage	12V _{DC} 2A
Output power	2x18W _{RMS} @ 4Ω
Output impedance [Ω]	4 ... 8
Bluetooth profiles	A2DP AVRCP-CT
Bluetooth version	2.1 ... 5.0
Bluetooth codec	SBC
Bluetooth class	2 (approx. 10m)
Protection class	IPX0
Ambient temperature	0 ... 45°C

Infrared Cabin

Bio Sauna

Finnish Sauna

HAND REMOTE CONTROL for Bluetoothplayer



125°C



lifetime battery



LED indicator



made in Austria

- ⊙ 5-button operating concept
- ⊙ Easy to add
- ⊙ Maintenance free long life battery
- ⊙ Control lamp

WALL REMOTE CONTROL for Bluetoothplayer



125°C



lifetime battery



invisible mounting





made in Austria

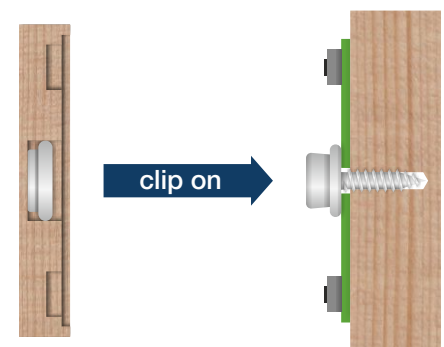
- ⊙ Quick and easy mounting
- ⊙ Wireless & easy to add
- ⊙ Maintenance free long life battery
- ⊙ 12 types of wood available

TECHNICAL DATA

Dimensions [mm]
Weight [g]
Invisible mounting
Protection class
Typical battery lifetime
Ambient temperature

	 hand remote control	 wall remote control
Dimensions [mm]	75 x 39 x 16	55 x 55 x 10
Weight [g]	25	40
Invisible mounting	–	✓
Protection class	IP54	IP44
Typical battery lifetime	10 years	10 years
Ambient temperature	0 ... 125°C	0 ... 125°C

EASY MOUNTING



Alder Aspen thermally mod. Aspen Beech Red Cedar Hemlock Linden Oak Obeche Spruce thermally mod. Spruce Swiss Pine



Infrared Cabin

Bio Sauna

Finnish Sauna

MUSIC EDITION

Favorites with Hi-Fi Sound



125°C



HiFi quality



invisible mounting



made in Austria

- ✓ Invisible speaker
- ✓ Calibrated frequency response
- ✓ Digital sound processor
- ✓ Dynamic sound adjustment
- ✓ Wirelessly connectable with the smartphone

AVAILABLE ACCESSORIES

	colour light control	bluetooth audio control
Scope of delivery	included	optional
Hand remote control (default)		
Wall remote control (alternative)		
Technical data	→ page 41	→ page 51

RECESSED MOUNTING

A partially recessed mounting of the wall remote controls points out the high-quality integration.



Combination for light and sound: All functions in any type of wood at your fingertips - control the music playback directly from inside the cabin!

COLLAXX BLUETOOTHPLAYER INCLUDED



- ✔ Line input and output
- ✔ Individually configurable
- ✔ Service friendly

The **collaxx Bluetooth Player** is included in the package and enables connection to existing audio sources or amplifiers. Due to the lossless digital amplifier with 2x18W output power, two FL2000 Music can be connected in **stereo mode**. See page 50 for all details!

FL201 MUSIC



The **basic model** is unrivaled in price, but unbeaten in quality!

FL2000 MUSIC

Best materials and high quality in-house workmanship are the hallmarks of our flagship product.



Invisible mounting: Completely screwless and with only 3.5mm protrusion, the FL2000 Music blends into your high-end ambiance. An enormous luminosity, homogeneous surface and balanced sound result in pure perfection.

TECHNICAL DATA

Available types of wood

Dimensions [mm]

Ceiling cutout [mm]

Weight [g]

Brightness [lm]

Invisible mounting

Homogeneous light

Pastel colours

Operating voltage

Ambient temperature

LED lifetime [h]

Automatic mode

Status memory

Audio inputs



FL201 Music

Alder

320 x 235 x 51

300 x 215

620

290

×

✓

✓

2x 12V_{DC} | 2A

0 ... 125°C

30,000

✓

✓

Bluetooth | Line in



FL2000 Music

Alder, Hemlock, Linden, Swiss Stone Pine

361 x 266 x 53

345 x 255

900

460

✓

✓

✓

2x 12V_{DC} | 2A

0 ... 125°C

30,000

✓

✓

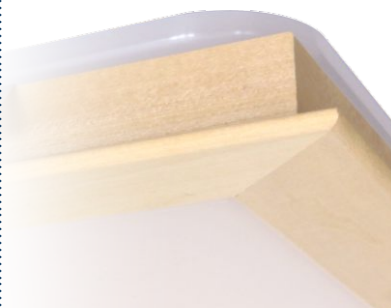
Bluetooth | Line in

Alder

Hemlock

Linden

Swiss Stone Pine



Infrared Cabin

Bio Sauna

Finnish Sauna

CUBUS 22

Perfect Sound and Finishing



125°C



HiFi quality



invisible mounting



service friendly



made in Austria

- ✔ All sides miter glued teak wood
- ✔ Temperature and water resistant chassis
- ✔ Temperature and water resistant gluing
- ✔ Easy plug & play installation
- ✔ Well-balanced sound due to DSP

INCLUDED: BLUETOOTHPLAYER

Only the connection to our Bluetooth player turns the Cubus 22 system into a real miracle.



The **integrated sound processor** ensures perfect sound in every sauna cabin - see page 50 for all details.

OPTIONAL: RADIO REMOTE CONTROL

With a wireless remote control, you effortlessly control the music directly from inside the cabin.

The wall remote control is available in 12 different types of wood to match each cabin.



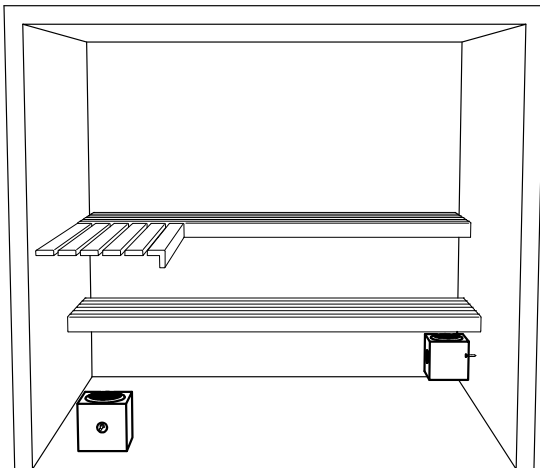
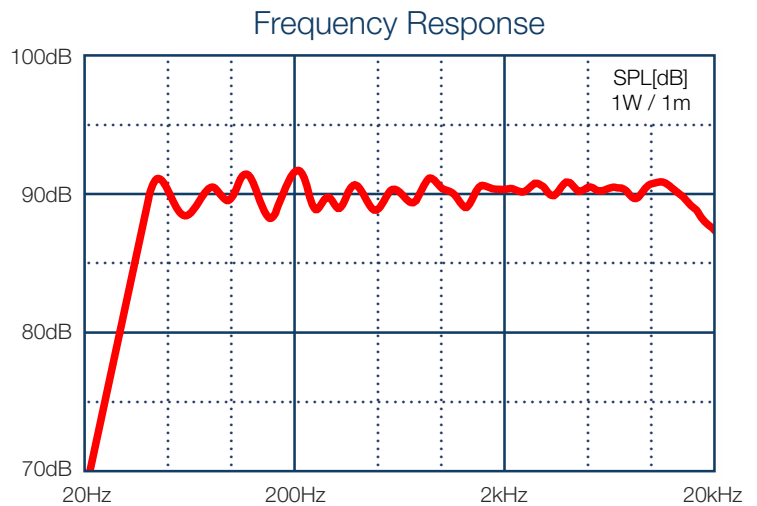
The **phone can stay out** and will not be exposed to high humidity or temperature.

PERFECT SOUND

The Cubus 22 were calibrated in several typical sauna cabins. Based on these measurement curves, the integrated signal processor was programmed.

This results in a perfectly balanced sound image over the entire audible frequency range. The sound experience is additionally enhanced by a fully automatic loudness function.

Due to the **neutral frequency response** of the Cubus 22 your music sounds like in a recording studio. In the diagram you can see the linear frequency range from 40Hz to 20kHz.



OPTIMAL ACOUSTICS

The Cubus 22 are placed in the space under the benches.

They are suspended just above the floor by one screw each. So they are not in the way when mopping up.

It is essential that they are always mounted **in pairs in opposite corners** to get the best out of Cubus 22.

TECHNICAL DATA



Cubus 22

Dimensions [mm]	220 x 220 x 220
Weight [kg]	2.5
Impedance [Ω]	4
Maximum power [W]	80
Rated power [W]	60
Frequency range ± 3 dB	37Hz ... 21kHz
Ambient temperature	0 ... 125°C

INVISIBLE MOUNTING

With only **one screw** using a recessed suspension connector on the back.

The speaker terminals are also located on the back.

A mirrored pair design allows for optimal installation in every cabin.



SOUND EXCITER

Invisible Music Pleasure



85°C



HiFi quality



invisible mounting



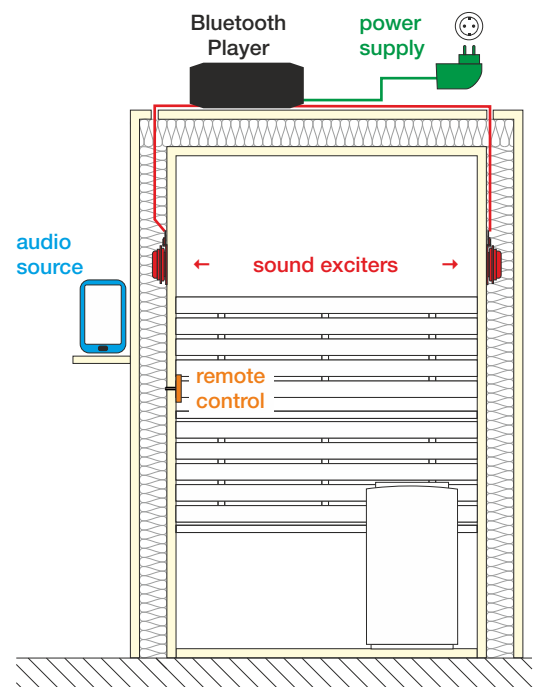
commercial use

- ✓ Perfect add-on for the Bluetooth Player
- ✓ Invisible mounting behind the walls
- ✓ Low height
- ✓ Stereo sound with two speakers possible

TECHNICAL DATA

	10W	20W
Dimensions [mm]	67 x 46 x 17	71 x 58 x 21
Weight [g]	60	120
Voice coil [mm]	Ø 25	Ø 32
Power [W]	10	20
Cabin size [m]	1.3 x 1.3	2.5 x 2.5
Ambient temperature	0 ... 85°C	0 ... 85°C

MOUNTING SUGGESTION



collaxx: Perfect sound truly brings music to life!

Until 2015, we used an MP3 radio from China to play music in the saunas. However, we then suddenly received an unexpected "upgrade" in which all functions were announced loudly. Unfortunately, the announcement was made by a Chinese dubbing voice that sounded like a battle cry and was definitely not suitable for a relaxing atmosphere. We couldn't put our customers through this, so Stefan and his team decided to develop their own device.

End of 2015: Development of the collaxx Bluetoothplayer begins

After several months, towards the end of 2015, Dipl.-Ing. Schmidlechner granted approval to Stefan. More than 2,000 working hours followed, during which our technicians focused on developing a device that met our quality standards: The collaxx Bluetoothplayer.

But who is Stefan?

Stefan is our CTO, the lead electronics developer. He is always available when there is a need. If someone is urgently required, Stefan can always be relied upon. He also works extremely precisely and errors are a foreign to him. This is what distinguishes our quality. In addition, Stefan is unbeatably fast and finds ingenious solutions to tricky problems like the development of the Bluetooth-player.

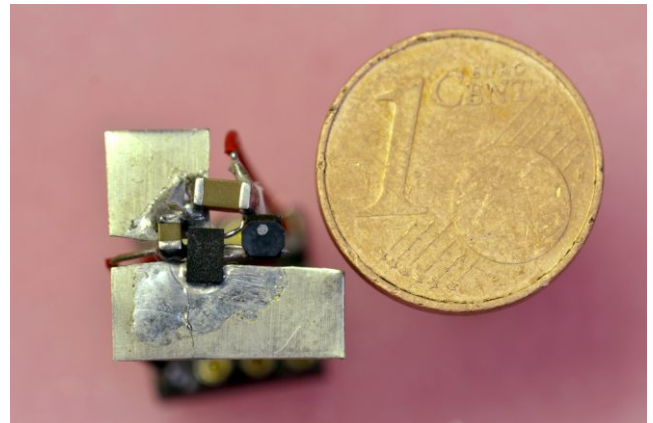


Fig. 2: Prototype of the power supply for the Bluetooth Player, hand soldered at a terminal pitch of 0.5mm

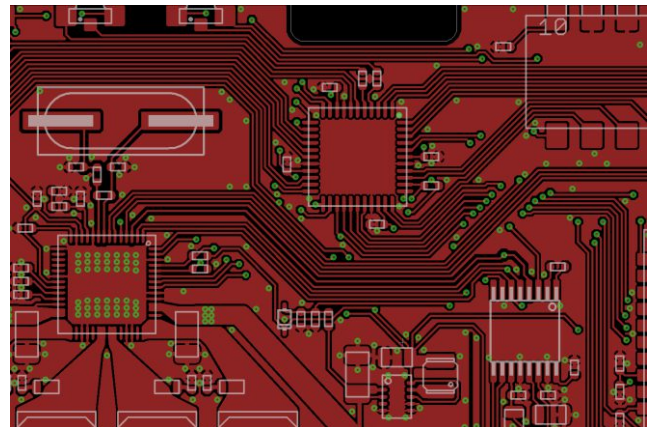


Fig. 3: The Bluetooth Player has 110 different signals



Fig. 1: Stefan performing diagnostics on the prototype

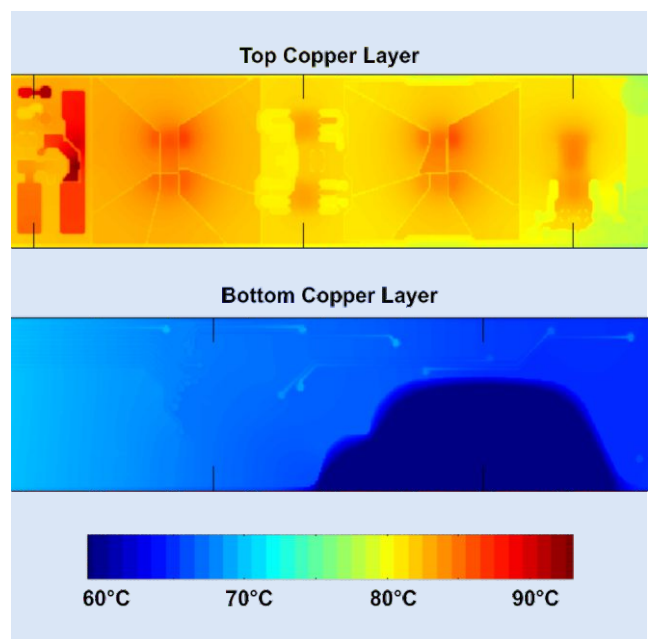


Fig. 4: Thermal simulation of the printed circuit board

Power Supply 12V / 1A



Wide range switching power supply with high efficiency for collaxx colour lights up to 1A.

Designed with a Euro plug, adapter plugs for international power plugs available.

Power Supply 12V / 2A



Wide range switching power supply with high efficiency for collaxx colour lights up to 2A.

Designed with a Euro plug, adapter plugs for international power plugs available.

Adapter for 1A and 2A Power Supplies



Adapter plugs for international power plugs.

Only required for the 1A and 2A power supplies. The 3.3A and 5A power supplies can be directly equipped with the appropriate power plug or power cord.

Power Supply 12V / 3.3A



Wide range switching power supply with high efficiency, optionally available with international power plugs:



US



UK



AU

Power Supply 12V / 5A



45°C



LED indicator



Wide range switching power supply with high efficiency, optionally available with international power cords:



US

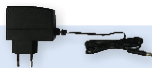
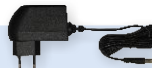




UK



AU

TECHNICAL DATA

	 12V / 1A	 12V / 2A	 12V / 3.3A	 12V / 5A
Input voltage [V _{AC}]	90 ... 264	90 ... 264	90 ... 264	90 ... 264
Output voltage [V _{DC}]	12	12	12	12
Dimensions [mm]	64 x 30 x 45	75 x 34 x 43	100 x 100 x 40	115 x 53 x 37
Weight [g]	82	160	175	390
Ambient temperature	0 ... 45°C	0 ... 45°C	0 ... 45°C	0 ... 45°C
Input cable [m]	—	—	—	1.4
Output cable [m]	1.4	1.8	1.4	1.8

Standard Cable



125°C



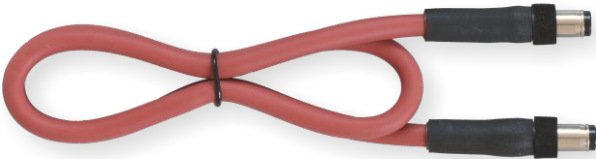
private
use

Heat-resistant DC cables with sealing rings for use in private installations.

Available lengths:

10cm 35cm 1m 2m 3m 5m 7.5m 10m

Silicone Cable



125°C



commercial
use



made in Austria

Handmade silicone cables with sealing rings for use in commercial installations.

Available lengths:

10cm 35cm 1m 2m 3m 5m 7.5m 10m 12.5m 15m

Direct Connector



125°C



commercial
use

DC double plug with sealing rings for connecting two modular batten lights as well as for cascading Y junctions.

DC Adapter



45°C



commercial
use

DC double plug for connecting the power supply cable to temperature-resistant standard or silicone cable.

Y Junction



45°C








commercial
use

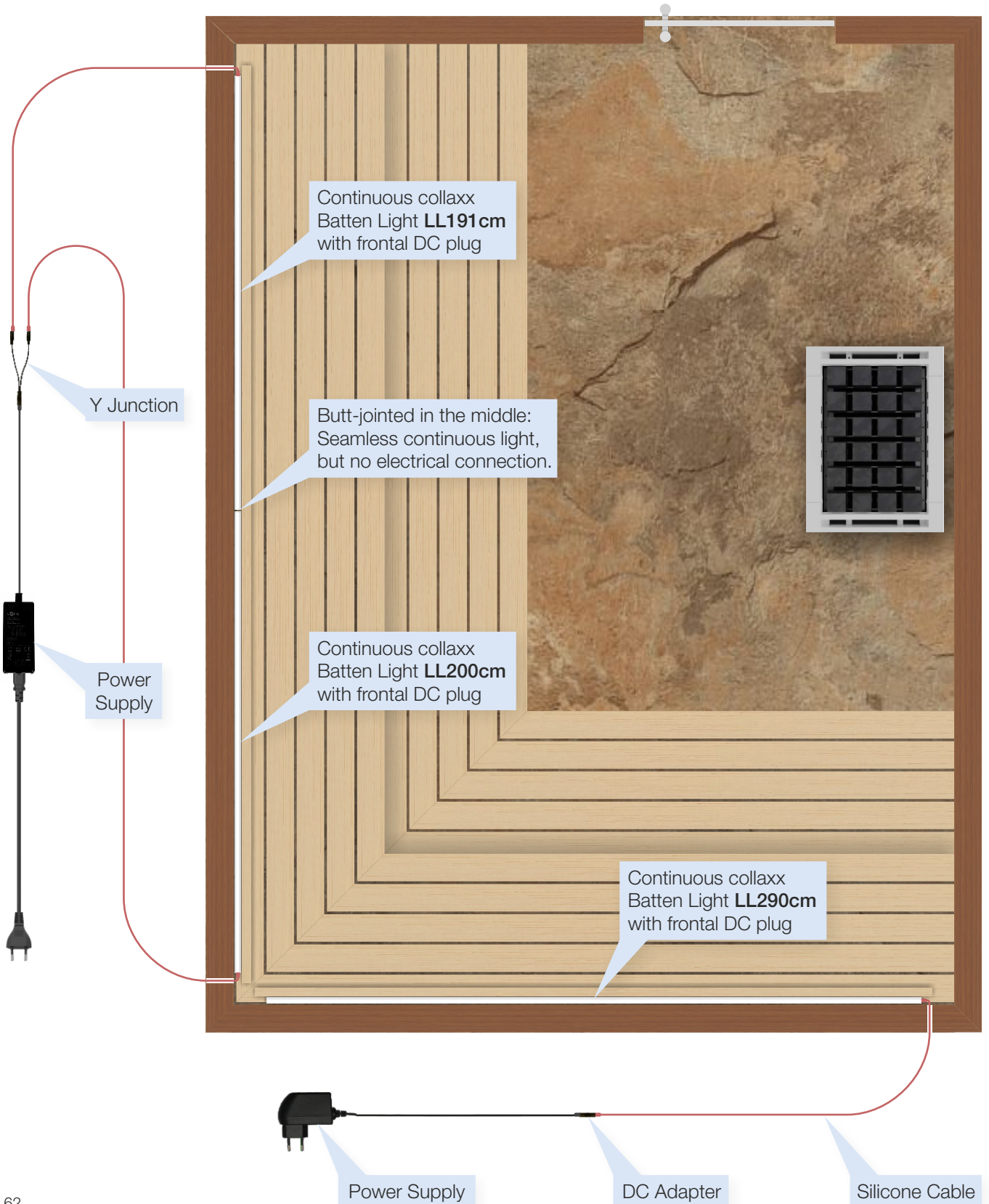
Splitter with three DC sockets for splitting the power supply into two separate supply lines.

For more than two outlets it can be cascaded with Direct Connectors.

TECHNICAL DATA

	 standard cable	 silikon cable	 direct connector	 DC adapter	 Y junction
Dimensions	cable Ø4mm plug Ø9mm	cable Ø5mm plug Ø8mm	Ø8mm	Ø12mm	–
Length	10cm ... 10m	10cm ... 15m	25mm	39mm	22cm
Weight [g]	–	–	3	8	16
Ambient temperature	125°C	125°C	125°C	45°C	45°C
Current rating [A]	≤5	≤5	≤5	≤5	≤5

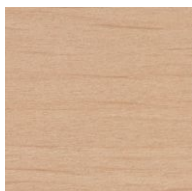
Installation Example



Types of Wood



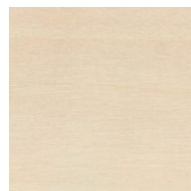
Acacia



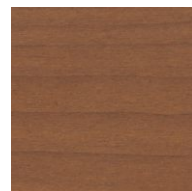
Alder



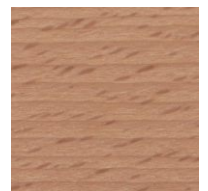
Ash



Aspen



thermally modified
Aspen



Beech



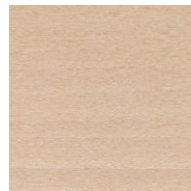
Cedar



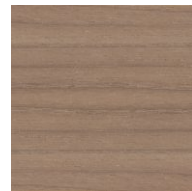
Red Cedar



Hemlock



Linden



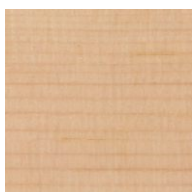
American Nut



Oak



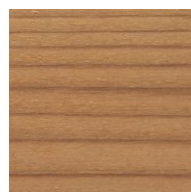
Obeche



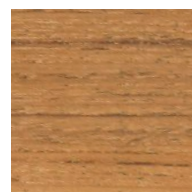
Swiss Stone Pine



Spruce



thermally modified
Spruce



Teak



Wenge

