AlphaLUXX

Floodlight

Product information
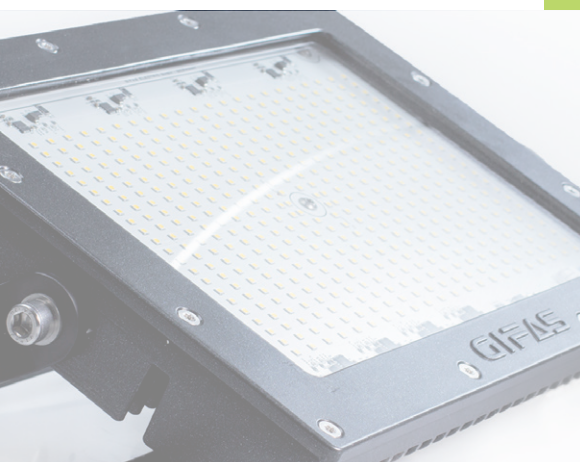
Properties

Development Approach
This development is based on the need to manufacture a floodlight which merits the **Made by GIFAS** mark of excellence, in terms of performance and quality. With the AlphaLUXX, GIFAS has succeeded in developing a competitive LED floodlight that satisfies the highest demands and can also be used in challenging industrial sectors (for example, the food industry).

LED
The AlphaLUXX uses exclusively **high-end SMD LEDs** from reputable manufacturers, which are ideal in terms of light quality, lifespan, light colour and efficiency. The neutral, white 5'000 K light and the good colour rendering index of over R_a 80, match the maximum human vision in daylight and as a result the best resolution of detail.

Surface coating
The **PTFE surface coating (coll. Teflon®)** on the AlphaLUXX has a very low friction coefficient. Even aggressive acids such as aqua regia can not attack PTFE. It is often resistant to all chemical bases, alcohols, ketones, fuels, oils, etc.; It is only **unstable** to very strong reducing agents such as solutions of alkali metals (e.g., sodium) in **liquid ammonia,** or very strong oxidizing agents such as elemental fluorine at higher temperatures. Improved thermal conductivity results from the four-times thinner PTFE coating, in comparison with powder coating.

Technology
At up to **150 lm / W, the tremendous efficiency** of the **AlphaLUXX** is currently unique in the market. Also available as a dimmable version.

Thermal management
Efficient cooling is crucial to the longevity of the LEDs and ultimately affects the whole lighting system. In order to achieve this on a long-term basis for the AlphaLUXX, several technical components have been used for optimum thermal management. These include a heat sink (housing with cooling fins) made of highly thermo-conductive die-cast aluminium, a PTFE surface with a very thin coating and heat conducting film for optimum connection of the contact areas. We can therefore ensure an **operating temperature range of up to 60°C.**

Quality – 5-year guarantee
The components are selected according to the highest quality standards. High-alloy, corrosion-resistant aluminium housing (230 D), stainless steel installation material (V4A), LEDs and electronics from reputable manufacturers (Seoul Semiconductor and Meanwell). Individual testing of every luminary in accordance with DIN EN 60598-1, certified according to ENEC. The specific coordination of the technical components attains a **service life of 80'000 hours**.
All AlphaLUXX models feature a 5-year guarantee period.

Main features

– robust housing made of corrosion-resistant die-cast aluminium
(alloy: 230 D)
– dirt-resistant PTFE surface coating, approved for the food industry
– 5 mm toughened glass, PC panel also available
– custom-made U-profile seal surrounding all sides
– custom-made, durable, heat-conducting film for lasting, reliable
dissipation of heat from the LED board
– low heat generation thanks to the latest LED technology
– pressure compensation element for extreme temperature
fluctuations
– full luminous flux is available instantly after switching on
– low energy consumption with high light output
– maintenance-free
– wide operating temperature range (up to 60°C)
– no UV / IR radiation
– vibration-resistant
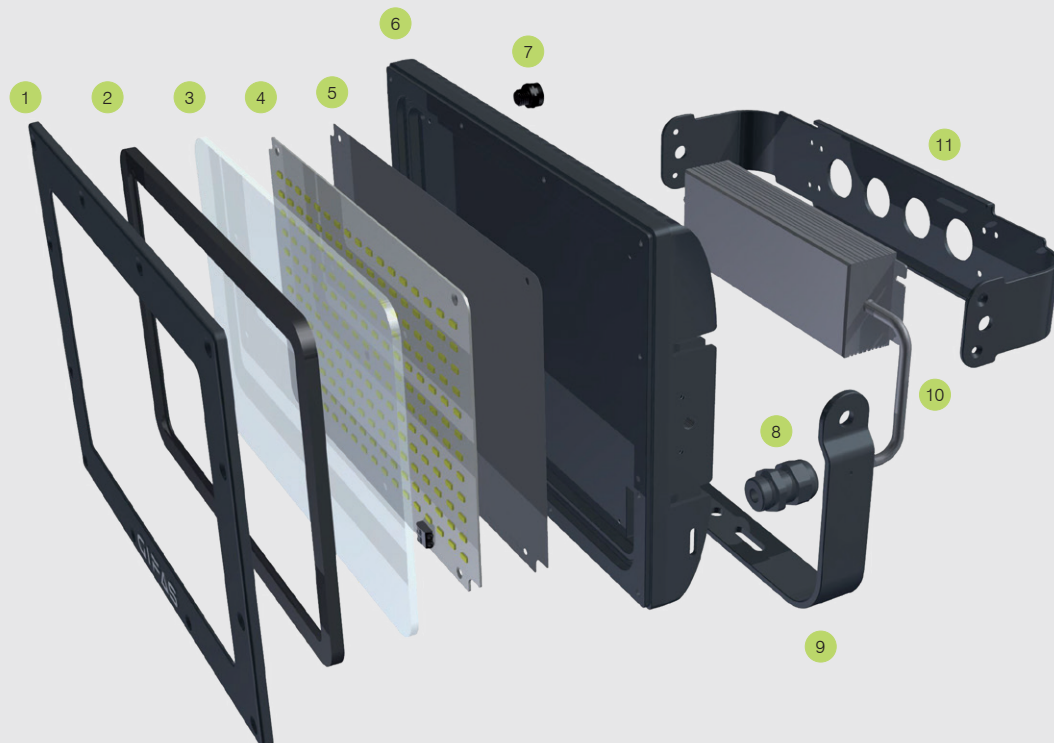– many accessories available from stock

Award «INDUSTRIEPREIS 2017»

Within the framework of the «INDUSTRIEPREIS 2017»
competition in Germany, the AlphaLUXX was awarded
as a particularly innovative LED industrial flood light with
the title BEST OF 2017 in the category of optical tech-
nologies.

The new GIFAS floodlight
DESIGNED, DEVELOPED and PRODUCED by GIFAS

– **hugely efficient at up to 150 lm / W**
– **revolutionary PTFE surface coating**
– **extremely flexible in terms of set-up, colour and output**
– **manufactured using top-quality components**
– **5-year guarantee**

The AlphaLUXX floodlight is **100 % Made by GIFAS.** During the devel-
opment, great emphasis was placed on the quality of the components,
coupled with excellent efficiency and state-of-the-art technology.

Short response times at the Neuss production plant are guaranteed,
meaning we are able meet customer requirements promptly in terms of
different outputs and front panels, various cable lengths and special col-
our designs.

IFS International Featured Standards · **CE** · **D** · **IP65** · ⏚ · **EK 24**

Set up

1 Die-cast aluminium frame	5 Heat conducting film	9 Mounting bracket	
2 U-profile silicon seal	6 Die-cast aluminium housing	10 Power supply	
3 Front panel (toughened glass or PC)**	7 Pressure compensation element	11 Power supply bracket	
4 LED board	8 Screwed cable gland	** ESG = Toughened safety glass ** PC = Polycarbonate	

AlphaLUXX 25 / 40 / 60

Measurements
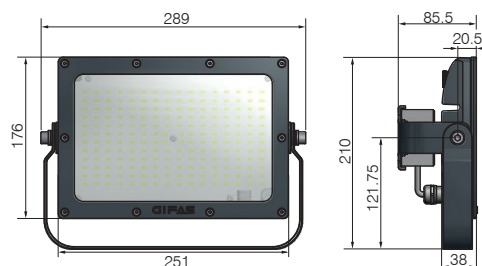
Technical data

Operating voltage:	100 - 277 VAC (50 / 60 Hz)
Light source	SMD-LEDs
System performance:	25.4 W / 40 W / 60 W
Luminous flux:	3'365 lm / 5'152 lm / 7'322 lm
LED power:	132 lm / W / 128 lm / W / 122 lm / W
Light colour:	5'000 K / 4'000 K
Beam angles:	120°
CRI:	Ra >80
Operating life:	[L70/B10] > 80'000 h
Protection category:	IP65
Protection class:	I
Dimming:	optional 1~10 V (DALI with additional module)
Operating range of temperature:	
– AlphaLUXX 25:	–30°C to +60°C
– AlphaLUXX 40:	–30°C to +55°C
– AlphaLUXX 60:	–30°C to +50°C
Max. surface temperature:	+90°C (suitable for use in industrial premises with fire hazards), D rating label
Housing:	Die-cast aluminium
Housing surface:	PTFE-coated (approved for the food industry)
Housing colour:	black
Cover:	toughened glass, 3 mm
Weight:	approx. 2.7 kg
Measurements (L×W×H):	289×176×85.5 mm
Certification:	ENEC, CE, IK10

* Other versions on request.

Light distribution curve
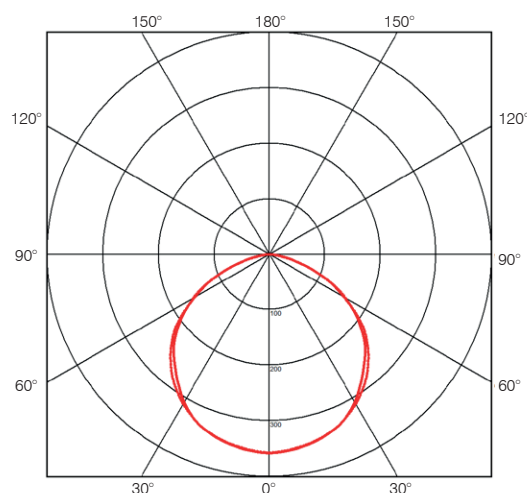
Standard assortiment «verre satiné»

5'000 K**	4'000 K*	Description
800089	800090	Floodlight AlphaLUXX 25, 5 m connection cable, plug type 12
800091	800092	Floodlight AlphaLUXX 40, 5 m connection cable, plug type 12
800093	800094	Floodlight AlphaLUXX 60, 5 m connection cable, plug type 12

*   4'000 K = 4'000 Kelvin, light colour comfort white
** 5'000 K = 5'000 Kelvin, light colour cool white

Accessories AlphaLUXX 25 / 40 / 60

179727	Floor stand ALU, powder coated, black, RAL9005
010586	Light tripod, height 1.5 - 3.5 m

Item no. 010586

Item no. 179727

AlphaLUXX 80 / 100 / 120

Measurements
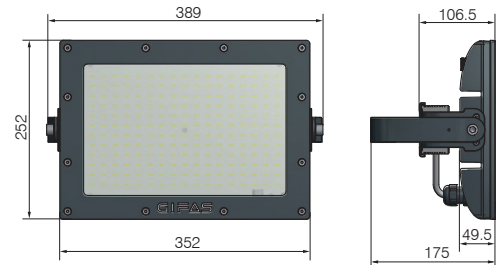
Technical data

Operating voltage:	100 - 277 VAC (50/60 Hz)
Light source	SMD-LEDs
System performance:	86 W / 111 W / 128 W
Luminous flux:	12'801 lm / 16'432 lm / 18'636 lm
LED power:	150 lm/W / 148 lm/W / 148 lm/W
Light colour:	5'000 K
Beam angles:	120°
CRI:	Ra >80
Operating life:	[L70/B10] >80'000 h
Protection category:	IP65
Protection class:	I
Dimming:	optional 1~10V (DALI with additional module)

Operating range of temperature:
– AlphaLUXX 80:	–30°C to +60°C
– AlphaLUXX 100:	–30°C to +55°C
– AlphaLUXX 120:	–30°C to +50°C
Max. surface temperature:	+90°C (suitable for use in industrial premises with fire hazards), D rating label
Housing:	Die-cast aluminium
Housing surface:	PTFE-coated (approved for the food industry)
Housing colour:	black
Cover:	toughened glass, 5 mm optional PC, impact-resistant plastic cover, 5 mm (versions available transparent or frosted)
Connection:	5 m connection cable, 3×1.5 mm² H07RN, plug type 12
Weight:	approx. 7.0 kg
Measurements (L×W×H):	389×252×106.5 mm
Certification:	ENEC, CE, suitable for IFS (International Featured Standard)

* Other versions on request (e.g. ball-impact resistant according to DIN VDE 0710-13)

Accessories AlphaLUXX 80 / 100 / 120	
169080	Wall-/roof mounting brackt for 2× AlphaLUXX, V2A stainless steel
169754	Front glass frosted
174345	Floor stand ALU, powder coated, black, RAL9005
800032	DALI additional module to AlphaLUXX (Item no. 800067)

Item no. 169080   Item no. 174345   Item no. 800032

Light distribution curve
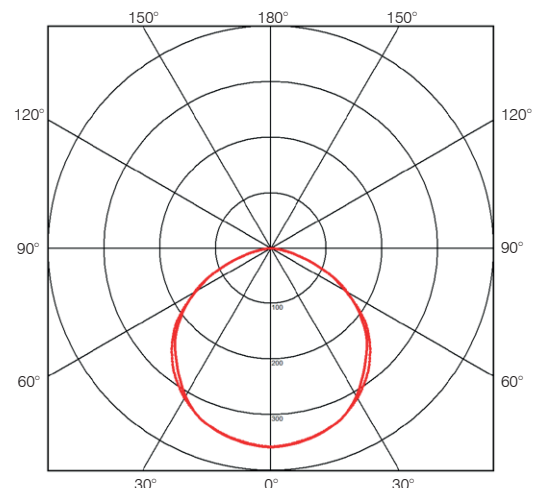
Standard range clear glass and frosted glass

Clear glass		Frosted glass	
5'000 K**	4'000 K*	5'000 K**	Description
800055	800099	800103	Floodlight AlphaLUXX 80, 5 m connection cable, plug type12
800056	800100	800102	Floodlight AlphaLUXX 100, 5 m connection cable, plug type12
800057	800101	800086	Floodlight AlphaLUXX 120, 5 m connection cable, plug type12
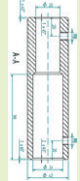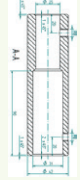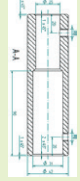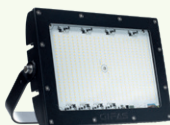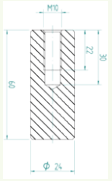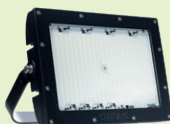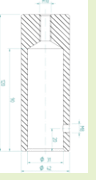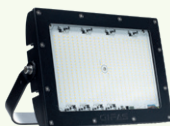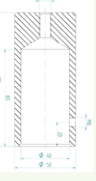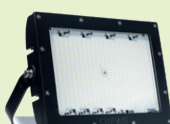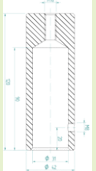
Options 5'000 K**	
800067	Floodlight AlphaLUXX 120, **dimmable** 0-10 V, 5 m connection cable, **Toughened safety glass**, type12 + **TeeTube** (Junction socket)
800068	Floodlight AlphaLUXX 120, to be used with acrylic glass for the food industry (IFS – Internation Food Standard), type12
800069	Floodlight AlphaLUXX 120, **20-48 VDC, Toughened safety glass,** TeeTube (Junction socket) **(for motor vehicle sector)**

*   4'000 K = 4'000 Kelvin, light colour comfort white
** 5'000 K = 5'000 Kelvin, light colour cool white

Overview of combination possibilities of Alpha-LUXX on tripod (AlphaLUXX 120)

AlphaLUXX – mobile spotlight complete including stand	tripod	adapter
Item no. 169048	Ø 24 mm Tripod existing army, civil protection by customer	Not necessary (plug Ø 24 mm fits on stand)
Item no. 169048	Ø 30 mm Tripod zinc-plated, Heavy execution (for uneven ground) Item no. 190592	Sleeve Ø 25 mm for tripod Ø 30 mm Aluminium adaptor sleeve with star knob Item no. 172386
Item no. 169048	Ø 38 mm Tripod steel with crank handle Item no. 102009	Sleeve Ø 25 mm for tripod Ø 38 mm Aluminium adaptor sleeve with star knob Item no. 172388
Item no. 169048	Ø 30 mm Tripod zinc-plated, version «Fire brigade» Item no. 172088	Sleeve Ø 25 mm for tripod Ø 30 mm Aluminium adaptor sleeve with star knob Item no. 172386

AlphaLUXX – Spotlight standard types	tripod	adapter
f.e. Item no. 800057	Ø 24 mm Tripod existing army, civil protection by customer	Plug Ø 24 mm for tripod Ø 24 mm Aluminium adaptor plug Item no. 170721
f.e. Item no. 800057	Ø 30 mm Tripod zinc-plated, Heavy execution (for uneven ground) Item no. 190592	Sleeve Ø 31 mm for tripod Ø 30 mm Aluminium adaptor sleeve with star knob Item no. 172383
f.e. Item no. 800057	Ø 38 mm Tripod steel with crank handle Item no. 102009	Sleeve Ø 40 mm for tripod Ø 38 mm Aluminium adaptor sleeve with star knob Item no. 172384
f.e. Item no. 800057	Ø 30 mm Tripod zinc-plated, version «Fire brigade» Item no. 172088	Sleeve Ø 31 mm for tripod Ø 30 mm Aluminium adaptor sleeve with star knob Item no. 172383

Illumination with halogen lamp on a stand

Illumination with AlphaLUXX on a stand

Illumination with halogen lamp

Illumination with AlphaLUXX

Direct AlphaLUXX and halogen floodlight comparison

Illumination by AlphaLUXX during firefighter

GET IN TOUCH WITH US

GIFAS-ELECTRIC GmbH
Dietrichstrasse 2
CH-9424 Rheineck

☎ +41 71 886 44 44
🖨 +41 71 886 44 49
✉ info@gifas.ch

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you can find on our website:

www.gifas.ch

GIFAS
E L E C T R I C

GIFAS-ELECTRIC GmbH
Dietrichstrasse 2
CH-9424 Rheineck

📞 +41 71 886 44 44
🖨 +41 71 886 44 49
✉ info@gifas.ch
🌐 www.gifas.ch