DMX REFERENCE

HehkuPAR

HehkuPAR RGBALC 350 IP65

ShowlightFI

Manufacturer	ShowlightFI
GDTF file	ShowlightFI_HehkuPAR_148399.gdtf
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1 About this manual

This document describes the HehkuPAR RGBALC 350 IP65 by ShowlightFI. It was compiled from the GDTF file ShowlightFI_HehkuPAR_148399.gdtf from the GDTF-Share library.

File revision: “Preliminary for FW 09”.

The DMX modes, the channel functions and the technical data are given as the GDTF file states them. Installation, operation from the device's control panel, service and safety instructions are described in the manufacturer's original user manual, which takes precedence over this document.

This document was not issued or endorsed by ShowlightFI; product names and trademarks belong to their owners.

Safety notices are marked with signal words according to the severity of the hazard: DANGER – an imminent hazard that will result in death or serious injury; WARNING – a potential hazard that could result in death or serious injury; CAUTION – a potential hazard that could result in minor injury or property damage; NOTE – additional information for correct and safe use.

> **NOTE** This product is designed for stage and effect lighting. It is not suitable for household room illumination.

2 Quick reference

Parameter	Value
Weight	2.8 kg
Ingress protection	IP65

DMX modes

Mode	Channels	Units in one universe	First start addresses
1 Ch	7	73	1, 8, 15, 22, ...
2 Ch	2	256	1, 3, 5, 7, ...
3 Ch	3	170	1, 4, 7, 10, ...

No light? Check these channels

- 1 Ch: CH 7 Dimmer above 0
- 2 Ch: CH 1 Dimmer above 0
- 3 Ch: CH 1 Dimmer above 0; CH 2 Shutter 6 at 32–63, 96–127, 160–191 or 224–255 “Open”



Read the manual before use



Do not stare into the light

3 Safety instructions



Read the manual before use



Do not stare into the light

⚠ WARNING

- This device is intended for professional use. Installation, connection, setup and maintenance must be carried out only by suitably qualified persons who have read this manual.
- Use the device only for its intended purpose and as described in this manual.
- Do not open the housing and do not modify or tamper with the device. Refer all repairs to an authorized service center.
- Do not use the device if its housing, power or data cable, or a connector is damaged, if the device has been dropped, or if liquid or a foreign object has entered it. In such a case, have it checked by a service center.
- Disconnect the device from the power supply before cleaning, maintenance or any work on the connections.
- After moving the device from a cold to a warm environment, let it reach room temperature before switching it on to prevent condensation inside.
- The device is not a toy; keep it out of the reach of children.

⚠ CAUTION

- The device is rated IP65 and may be used outdoors within the limits of this rating.
- This protection is effective only when all connectors are mated or closed with their protective caps and all seals are intact. Use cables and connectors with the same or a higher protection rating.
- Do not open the housing; opening it breaks the seals and the protection rating can no longer be guaranteed.
- Install the device so that water cannot collect around connectors and cable glands, and inspect seals and cables regularly.

⚠ CAUTION

- This device emits intense light. Do not look directly into the light source or the beam at close range; doing so may damage your eyes.
- Do not aim the beam at the eyes of people or animals at close range, and do not view the light source through optical instruments (binoculars, camera lenses).
- Do not aim the beam at flammable or heat-sensitive materials at close range.

⚠ CAUTION

- Strobe and fast flashing light effects can trigger epileptic seizures in susceptible people (photosensitive epilepsy) and can cause nausea or disorientation.
- Inform the audience and performers in advance that strobe effects will be used, for example with a notice at the entrance, and do not use them longer than necessary.

4 Installation

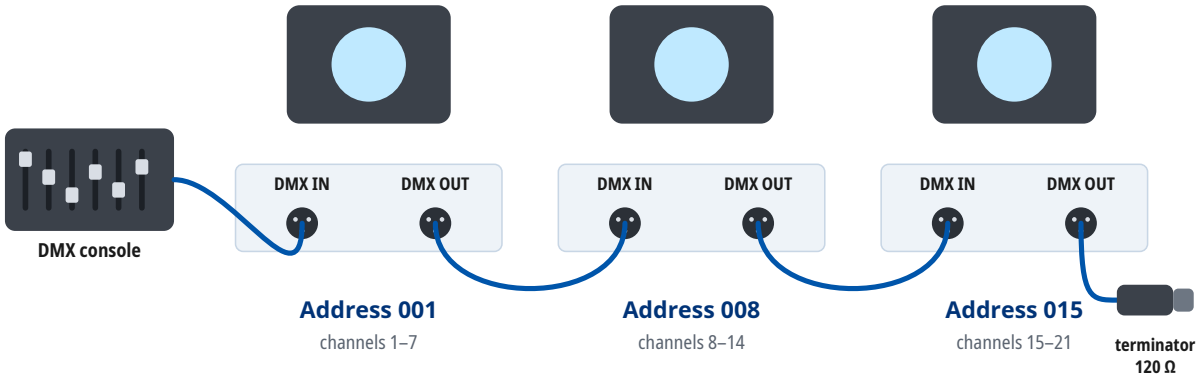
⚠ **WARNING**

- Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
- The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
- Weight of the device: 2.8 kg.
- Use suitable mounting hardware (for example truss clamps) and tighten all screw connections properly.
- Always secure the suspended device against falling with a safety cable of adequate load capacity, routed through a fixed point of the device and around the supporting structure.
- During installation and removal, keep people out of the area below the work position.
- Regularly inspect the fixings and the safety cable for damage, corrosion and loosening.

5 Connections

- Use shielded cable designed for DMX512 with an impedance of 110 Ω. Ordinary microphone cable is not suitable for DMX, especially over longer distances.
- Connect the devices in a daisy chain: connect the DMX OUT of one device to the DMX IN of the next. Do not split the line with Y-cables or wire it in a star; the line may be split only with a DMX splitter.
- Connect the shield to pin 1 only. Do not connect the shield (ground) to the metal shell of the connector; this can cause short circuits or erratic behavior.
- XLR pin assignment: pin 1 – shield (ground), pin 2 – Data- (Data Complement), pin 3 – Data+ (Data True). On 5-pin connectors, pins 4 and 5 are not connected; a 5-pin connector can be connected to a 3-pin one with a cable adapter.
- Terminate the end of the line (for impedance matching): plug an XLR connector with a 120 Ω, ¼ W resistor between pins 2 and 3 into the DMX OUT of the last device. This reduces the risk of erratic behavior.
- Connect no more than 32 devices to one DMX line. For more devices or longer runs, use a DMX splitter or booster.

DMX line



Mode 1 Ch: every unit occupies 7 channels from its address. At most 32 units on one line; for more units or longer runs use a DMX splitter. A 120 Ω terminator closes the last DMX OUT.

6 Operation

Setting the DMX address

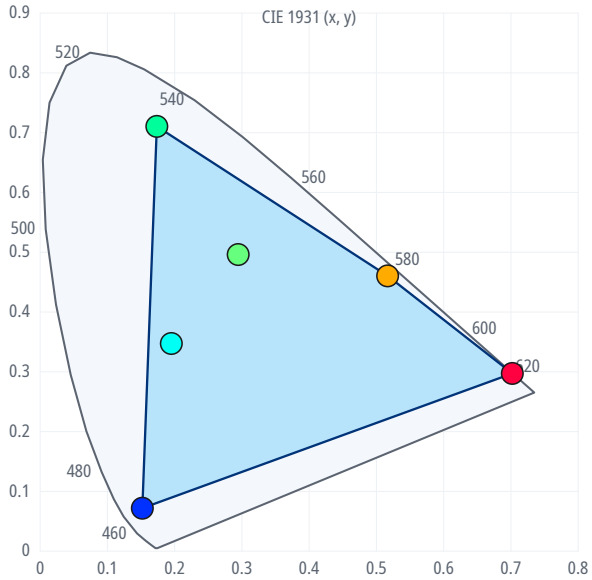
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “1 Ch”: 7.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied channel does not exceed 512. Devices with the same start address and mode respond identically.
- For several devices in a row in the DMX mode “1 Ch”, you can use, for example, the start addresses 1, 8, 15, 22.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

7 Functions at a glance

Functions in each DMX mode

	1 Ch 7 channels	2 Ch 2 channels	3 Ch 3 channels
Dimmer	7	1	1
Shutter / strobe			2
Color temperature		2	3

LED colors and the colors they mix

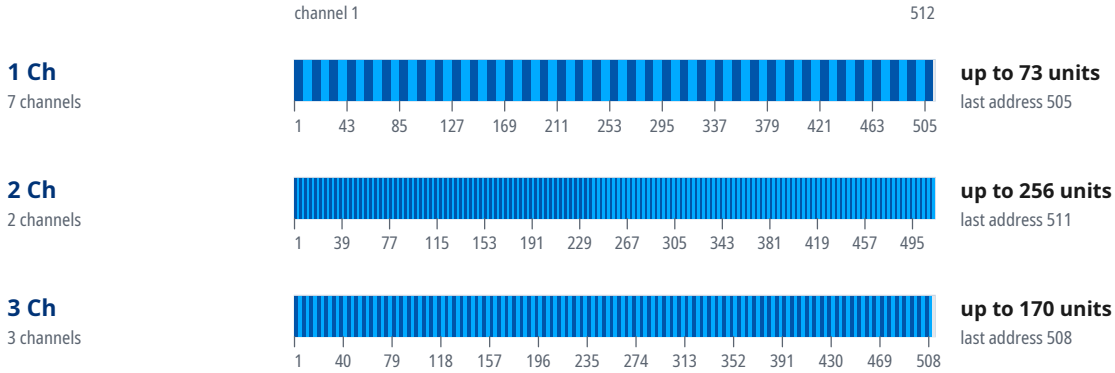


LED	x	y	nm
Red	0.702	0.297	626
Green	0.173	0.711	527
Blue	0.152	0.072	452
Amber	0.517	0.461	
Lime	0.294	0.496	
Cyan	0.195	0.347	

The shaded area holds the colors the LEDs can mix; the dots are the LED colors the GDTF file states.

8 DMX channels

Units in one DMX universe



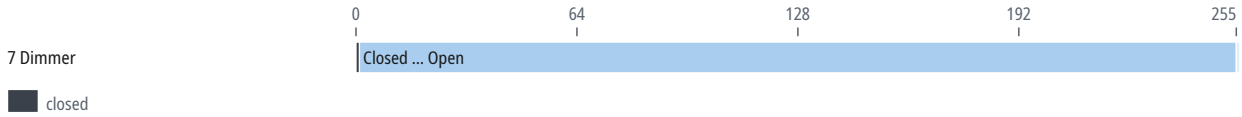
Start addresses of 20 units in the mode “1 Ch”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	36	11	71	16	106
2	8	7	43	12	78	17	113
3	15	8	50	13	85	18	120
4	22	9	57	14	92	19	127
5	29	10	64	15	99	20	134

Mode 1 Ch

If the device receives DMX in this mode but gives no light, check these channels: CH 7 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 7 Dimmer 255.

Channel functions at a glance

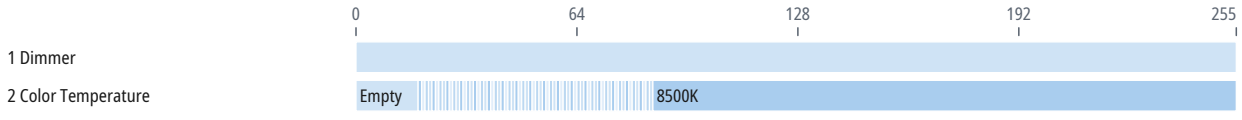


CH	Function	DMX	Description
7	Dimmer	0	Closed
		1–254	Closed ... Open
		255	Open

Mode 2 Ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0.

Channel functions at a glance



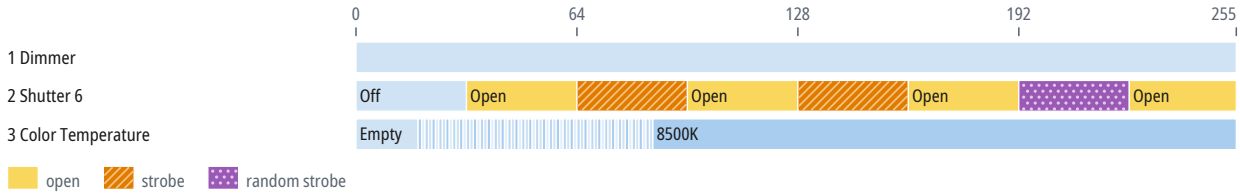
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Color Temperature	0–17	Empty
		18	1700K
		19	1800K
		20	1900K
		21	2000K
		22	2100K
		23	2200K
		24	2300K
		25	2400K
		26	2500K
		27	2600K
		28	2700K
		29	2800K
		30	2900K
		31	3000K
		32	3100K
		33	3200K
		34	3300K
		35	3400K
		36	3500K
		37	3600K
		38	3700K
		39	3800K
		40	3900K
		41	4000K
		42	4100K
		43	4200K
		44	4300K
		45	4400K
		46	4500K
		47	4600K
		48	4700K
		49	4800K
		50	4900K
		51	5000K
		52	5100K
		53	5200K
		54	5300K
		55	5400K

CH	Function	DMX	Description
2	Color Temperature (continued)	56	5500K
		57	5600K
		58	5700K
		59	5800K
		60	5900K
		61	6000K
		62	6100K
		63	6200K
		64	6300K
		65	6400K
		66	6500K
		67	6600K
		68	6700K
		69	6800K
		70	6900K
		71	7000K
		72	7100K
		73	7200K
		74	7300K
		75	7400K
		76	7500K
		77	7500K … 7600K
		78	7600K
		79	7800K
		80	7900K
		81	8000K
		82	8100K
		83	8200K
		84	8300K
		85	8400K
		86–255	8500K

Mode 3 Ch

If the device receives DMX in this mode but gives no light, check these channels: CH 1 Dimmer above 0; CH 2 Shutter 6 at 32–63, 96–127, 160–191 or 224–255 “Open”.

Channel functions at a glance



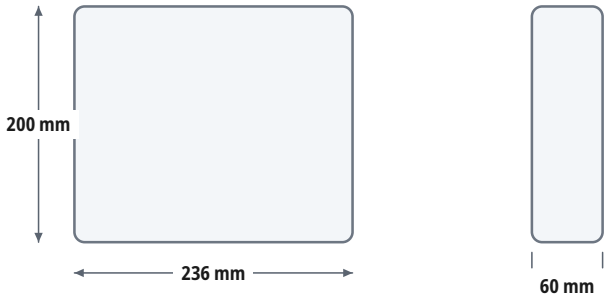
CH	Function	DMX	Description
1	Dimmer	0–255	
2	Shutter 6	0–31	Off
		32–63	Open
		64–95	Strobe slow to fast
		96–127	Open
		128–159	Pulse slow to fast
		160–191	Open
		192–223	Random strobe
		224–255	Open
3	Color Temperature		Same as CH 2 in the mode “2 Ch” (p. 9)

9 Technical specifications

Parameter	Value
Weight	2.8 kg
Ingress protection	IP65
Meaning of the IP code (IEC 60529)	Dust-tight; protected against water jets
Operating temperature	-40 to 45 °C

Dimensions

weight 2.8 kg



10 Maintenance and cleaning

- Before cleaning and maintenance, switch the device off, disconnect it from the power supply and let it cool down.
- Clean the housing with a soft, dry or slightly damp cloth. Do not use solvents, abrasive cleaners or pressure washers, and make sure no liquid gets into the device.
- Clean optical parts (lenses, front glass), if the device has any, with a soft lint-free cloth and a cleaner intended for optics or glass.
- Regularly inspect the housing, cables, connectors and fixings. Have damaged parts replaced by a service center.
- How often to clean depends on the environment; dust, smoke and fog make the device dirty much faster.

11 Troubleshooting

Problem	Remedy
The device does not switch on	Check the supply voltage, the cables and the fuse, if the device has one.
The device does not respond to DMX	Check the start address, the selected DMX mode and whether it matches the profile in the controller, the cable connection to DMX IN, and the controller output (universe).
The device behaves erratically or flickers	Check the terminator at the end of the line, the condition and wiring of the cables (shield on pin 1 only), the number of devices on the line (32 at most), and that the line is not split without a splitter.
Only some devices on the line respond	Check the cable and connectors between the last working and the first non-working device, and make sure all devices on the line are switched on.
Devices respond to the wrong channels or affect each other	Check that the addresses do not overlap and that the DMX mode on the devices matches the patch in the controller.
The device or the connected load does not light up although it receives DMX	Check the values of the dimmer, shutter and strobe channels against the DMX channel table. For the DMX modes for which the sources state it, the chapter DMX channels gives under the mode's heading which channels must be open.

12 Disposal

The crossed-out wheeled bin symbol on the product, in the manual or on the packaging means that the product must not be disposed of with unsorted household waste at the end of its life.

Take the end-of-life equipment to a collection point, for example a municipal collection site or a retailer. Proper disposal enables materials to be recycled and helps prevent possible negative effects on the environment and human health.

Follow the regulations applicable in your country; in the Czech Republic, take-back is governed by Act No. 542/2020 Coll., on End-of-Life Products.

Recycle the packaging materials according to their type.