DMX REFERENCE

ArenaLED1 Touring Color

GLP

Manufacturer	GLP
GDTF file	GLP_ArenaLED1_Touring_Color_48104.gdtf
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1 About this manual

This document describes the ArenaLED1 Touring Color by GLP. It was compiled from the GDTF file GLP_ArenaLED1_Touring_Color_48104.gdtf from the GDTF-Share library.

File revision: “29092023”.

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 GLP; 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	8.5 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
M1 - Normal (Default)	7	73	1, 8, 15, 22, ...
M2 - Advanced	11	46	1, 12, 23, 34, ...

No light? Check these channels

- M2 - Advanced: CH 3 Shutter at 0–4 or 251–255 “Open”


Read the manual before use


Do not stare into the light


Indoor use only

3 Safety instructions



Read the manual before use



Do not stare into the light



Indoor use only

⚠ 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.

⚠ WARNING

- This device is designed for indoor use only. Protect it from rain, splashing water, moisture and dust, and do not place containers with liquids on it.
- Do not operate the device in high humidity, near water, or where condensation can form on it.

⚠ 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

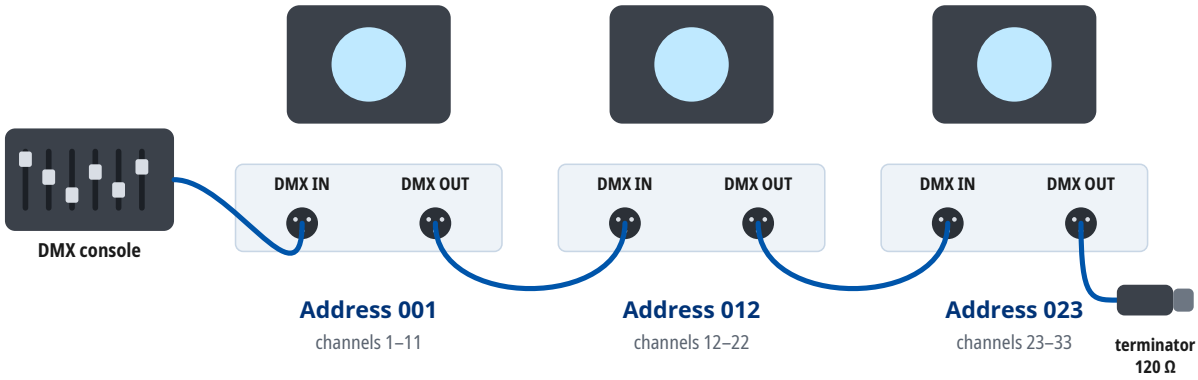
⚠ **WARNING**

- 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: 8.5 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 M2 - Advanced: every unit occupies 11 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

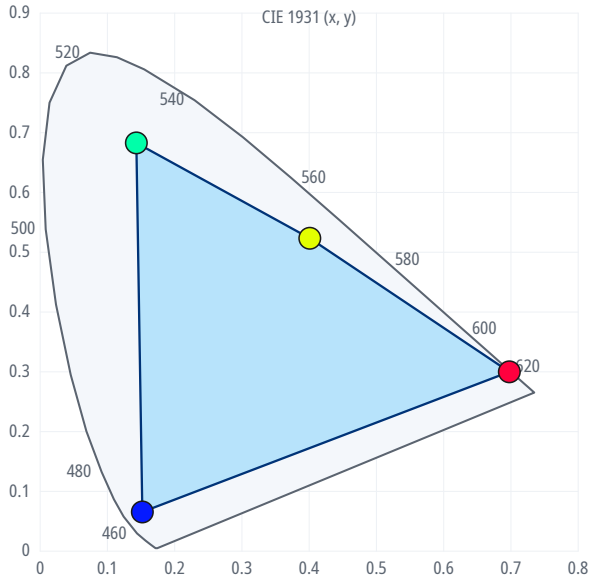
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “M2 - Advanced”: 11.
- Choose start addresses so that the channels of individual devices do not overlap and the last occupied 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 “M2 - Advanced”, you can use, for example, the start addresses 1, 12, 23, 34.
- 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

	M1 - Normal (Default) 7 channels	M2 - Advanced 11 channels
Pan / Tilt	✓	✓
Dimmer	1	1
Dimmer resolution	8 bit	16 bit
Shutter / strobe		3, 4
Color mixing	4–7	8–11
Color temperature	3	6

LED colors and the colors they mix

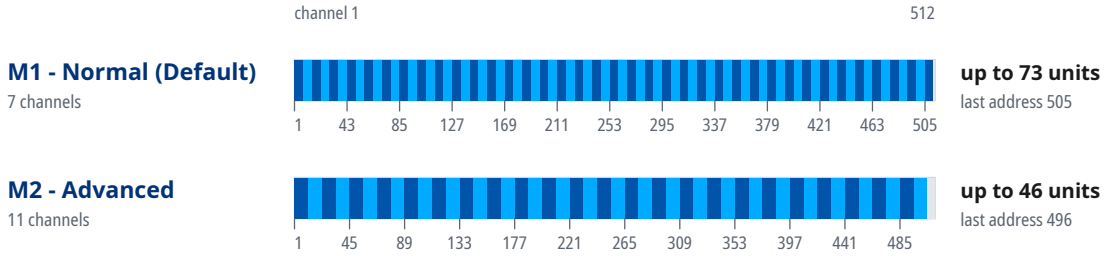


LED	x	y	nm
Red	0.698	0.300	624
Green	0.143	0.683	522
Blue	0.152	0.066	451
Lime	0.401	0.523	

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



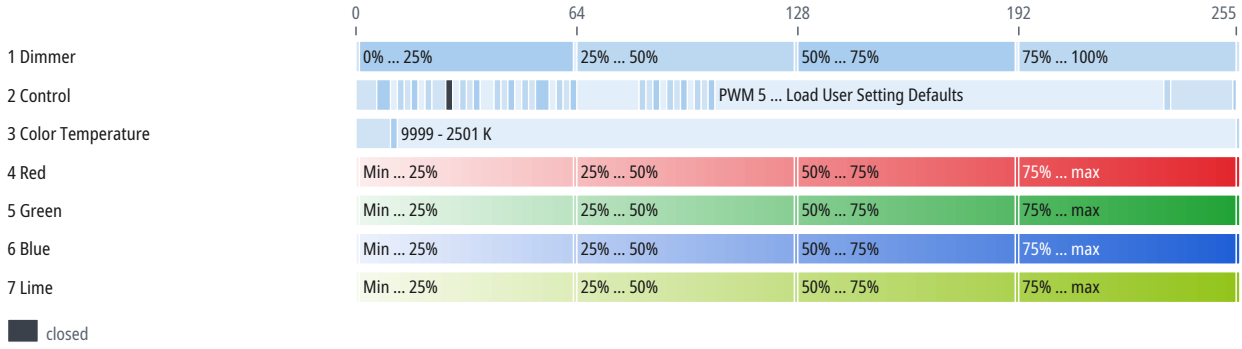
Start addresses of 20 units in the mode “M2 - Advanced”

Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	56	11	111	16	166
2	12	7	67	12	122	17	177
3	23	8	78	13	133	18	188
4	34	9	89	14	144	19	199
5	45	10	100	15	155	20	210

Mode M1 - Normal (Default)

The GDTF file gives these values for a console's Highlight function: CH 1 Dimmer 255, CH 4 Red 255, CH 5 Green 255, CH 6 Blue 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0	0%
		1–62	0% ... 25%
		63	25%
		64–126	25% ... 50%
		127	50%
		128–190	50% ... 75%
		191	75%
		192–254	75% ... 100%
		255	100%
2	Control		Control/Setting

CH	Function	DMX	Description
2	Control (continued)	0–5	Idle
		6–9	Idle ... ColorMix Mode: RGB (Default)
		10–11	ColorMix Mode: RGB (Default)
		12–13	ColorMix Mode: RGBL
		14–15	ColorMix Mode: RGBW
		16–17	ColorMix Mode: RGBW ... CQC: HO
		18–19	CQC: HO
		20–21	CQC: HQ (Default)
		22–25	CQC: HQ (Default) ... No Signal: Blackout
		26–27	No Signal: Blackout
		28–29	No Signal: Hold (Default)
		30–31	No Signal: Scene
		32–33	No Signal: Emergency Light
		34–35	Capture DMX (Scene)
		36–39	Capture DMX (Scene) ... Dimmer Curve: Square (Default)
		40–41	Dimmer Curve: Square (Default)
		42–43	Dimmer Curve: Linear
		44–45	Dimmer Curve: S-Curve
		46–47	Dimmer Curve: S-Curve ... Power Mode: Normal (Default)
		48–49	Power Mode: Normal (Default)
		50–51	Power Mode: Boost
		52–55	Power Mode: Boost ... PWM 01
		56–57	PWM 01
		58–59	PWM 02
		60–61	PWM 03
		62–63	PWM 04
		64–81	PWM 04 ... PWM -5
		82–83	PWM -5
		84–85	PWM -4
		86–87	PWM -3
		88–89	PWM -2
		90–91	PWM -1
		92–93	PWM 0
		94–95	PWM 1
		96–97	PWM 2
		98–99	PWM 3
		100–101	PWM 4
		102–103	PWM 5
		104–233	PWM 5 ... Load User Setting Defaults
		234–235	Load User Setting Defaults
		236–253	Load User Setting Defaults ... Reset ALL
		254–255	Reset ALL

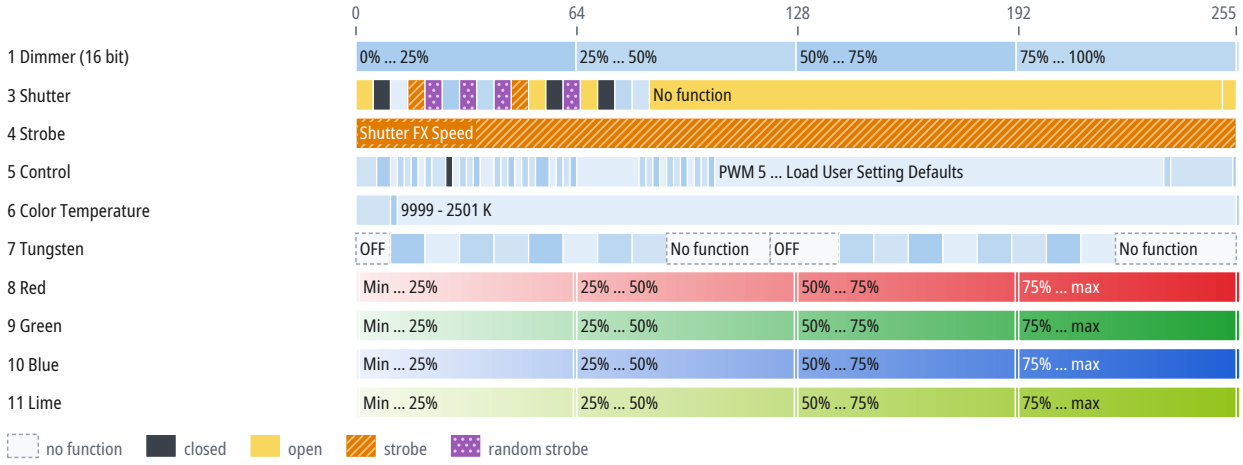
CH	Function	DMX	Description
3	Color Temperature	0–9	Defined White Point
		10–11	10000 K
		12–254	9999 - 2501 K (9999–2501 K)
		255	2500 K
4	Red	0	Min
		1–62	Min … 25%
		63	25%
		64–126	25% … 50%
		127	50%
		128–190	50% … 75%
		191	75%
		192–254	75% … max
		255	Max
5	Green	0	Min
		1–62	Min … 25%
		63	25%
		64–126	25% … 50%
		127	50%
		128–190	50% … 75%
		191	75%
		192–254	75% … max
		255	Max
6	Blue	0	Min
		1–62	Min … 25%
		63	25%
		64–126	25% … 50%
		127	50%
		128–190	50% … 75%
		191	75%
		192–254	75% … max
		255	Max
7	Lime	0	Min
		1–62	Min … 25%
		63	25%
		64–126	25% … 50%
		127	50%
		128–190	50% … 75%
		191	75%
		192–254	75% … max
		255	Max

Mode M2 - Advanced

16-bit parameters use two channels, coarse and fine: value = 256 × coarse value + fine value.

If the device receives DMX in this mode but gives no light, check these channels: CH 3 Shutter at 0–4 or 251–255 “Open”. The GDTF file gives these values for a console's Highlight function: CH 8 Red 255, CH 9 Green 255, CH 10 Blue 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Dimmer	0–63	0% ... 25%
		63	25%
		64–127	25% ... 50%
		127	50%
		128–191	50% ... 75%
		191	75%
		192–255	75% ... 100%
		255	100%
2	Dimmer Fine	0–255	Fine adjustment of CH 1
3	Shutter		Shutter FX Select
		0–4	Open
		5–9	Close
		10–14	Single Flash
		15–19	Strobe Synch
		20–24	Strobe Random
		25–29	Double Flash
		30–34	Double Flash Random
		35–39	Triple Flash
		40–44	Triple Flash Random
		45–49	Pulse
		50–54	Pulse Open
		55–59	Pulse Close
		60–64	Pulse Random

CH	Function	DMX	Description
3	Shutter (continued)	65–69	Pulse Random Open
		70–74	Pulse Random Close
		75–79	Lightning
		80–84	Paparazzi
		85–250	No function
		251–255	Open
4	Strobe		Shutter FX Speed
		0–255	Shutter FX Speed
5	Control		Same as CH 2 in the mode “M1 - Normal (Default)” (p. 7)
6	Color Temperature		Same as CH 3 in the mode “M1 - Normal (Default)” (p. 9)
7	Tungsten	0–9	OFF
		10–19	Tungsten ACL 250W/28V
		20–29	Tungsten Blinder 650W/120V
		30–39	Tungsten750W/80V
		40–49	Tungsten 1000W/240V
		50–59	Tungsten 1200W/240V
		60–69	Tungsten 2000W/230V
		70–79	Tungsten 2500W/230V
		80–89	Tungsten 5000W/230V
		90–119	No function
		120–139	OFF
		140–149	FX Tungsten ACL 250W/28V
		150–159	FX Tungsten Blinder 650W/120V
		160–169	FX Tungsten750W/80V
		170–179	FX Tungsten 1000W/240V
		180–189	FX Tungsten 1200W/240V
		190–199	FX Tungsten 2000W/230V
		200–209	FX Tungsten 2500W/230V
		210–219	FX Tungsten 5000W/230V
		220–255	No function
8	Red		Same as CH 4 in the mode “M1 - Normal (Default)” (p. 9)
9	Green		Same as CH 5 in the mode “M1 - Normal (Default)” (p. 9)
10	Blue		Same as CH 6 in the mode “M1 - Normal (Default)” (p. 9)
11	Lime		Same as CH 7 in the mode “M1 - Normal (Default)” (p. 9)

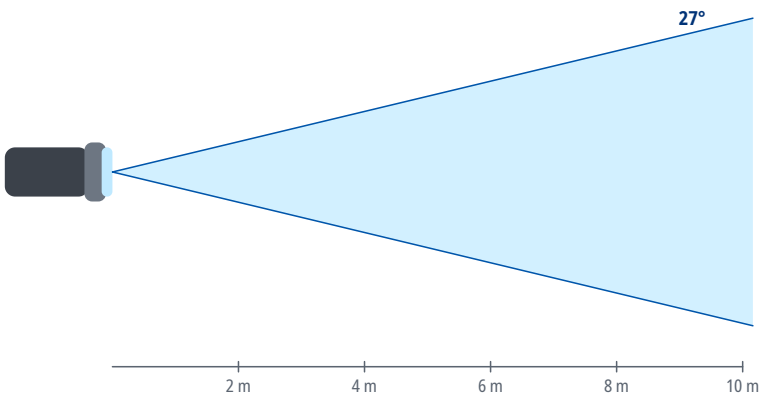
9 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	200 W
Luminous flux	5,270 lm
Color temperature	5,700 K
Color rendering index (CRI)	88
Optics	
Beam angle	27°
Dimensions and construction	
Weight	8.5 kg
Operating environment	
Operating temperature	-40 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2500–10000 K

Spot diameter



Distance	Ø 27°
2 m	0.96 m
4 m	1.9 m
6 m	2.9 m
8 m	3.8 m
10 m	4.8 m
15 m	7.2 m

Spot diameter square to the beam axis, calculated from the beam angle.

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.