DMX REFERENCE

Uplus Lighting Mini Beam 230

Uplus Lighting

Manufacturer	Uplus Lighting
GDTF file	Uplus_Lighting_Uplus_Lighting_Mini_Beam_230_56344.gdtf
GDTF revision	Rev 2 · 2024-01-29
Generated	2026-11-24

Contents

1 About this manual 2
2 Quick reference 2
3 Safety instructions 3
4 Product description 4
5 Installation 4
6 Connections 4
7 Operation 5
8 Functions at a glance 6
9 DMX channels 7
Mode 16 Channel 7
10 Technical specifications 10
11 Maintenance and cleaning 10
12 Troubleshooting 11
13 Disposal 11

1 About this manual

This document describes the Uplus Lighting Mini Beam 230 by Uplus Lighting. It was compiled from the GDTF file Uplus_Lighting_Uplus_Lighting_Mini_Beam_230_56344.gdtf from the GDTF-Share library.

File revision: “Rev 2”.

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 Uplus Lighting; 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	12 kg
Ingress protection	IP20

DMX modes

Mode	Channels	Units in one universe	First start addresses
16 Channel	16	32	1, 17, 33, 49, …

No light? Check these channels

- 16 Channel: CH 2 Shutter at 104–107 or 208–212 or 252–255; CH 3 Dimmer above 0



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.
- Ingress protection rating: IP20.
- 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.

> ⚠ **WARNING**
>
> - The moving parts of the device (for example the head or arms) can move quickly and unexpectedly at any time – after power-on, during a reset, or on a command from the controller.
> - Keep yourself and any objects out of the range of movement. While the device is switched on, do not touch the moving parts, move them by hand, or obstruct their movement; this can cause injury (pinching) and damage the drive.
> - Do not carry the device by its moving parts. If the device has a transport lock, engage it before transport and release it before switching on.

4 Product description

Description in the GDTF file

“lamp: 230w (life:2200 hours Color temperature: 8000K) Beam angle:2° Channel mode:16 DMX512 Channel Pan scan:540°(16bit) Electric correction Tilt scan:270° (16bit) Electric correction Color wheel: one color wheel, 14 kinds of colors Gobo: 14 gobos 8+16+24 prism Frost 0-100% mechanical dimming, mechanical dimming and free dimming available. strobe macro control available. Over heat protection Power Input: 100-240V,50/60Hz Power Dissipation:230W IP level :IP20 Net weight:10.8KG Gross weight:12kg Packing Size: 50X34.5X36.5CM”

5 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: 12 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.

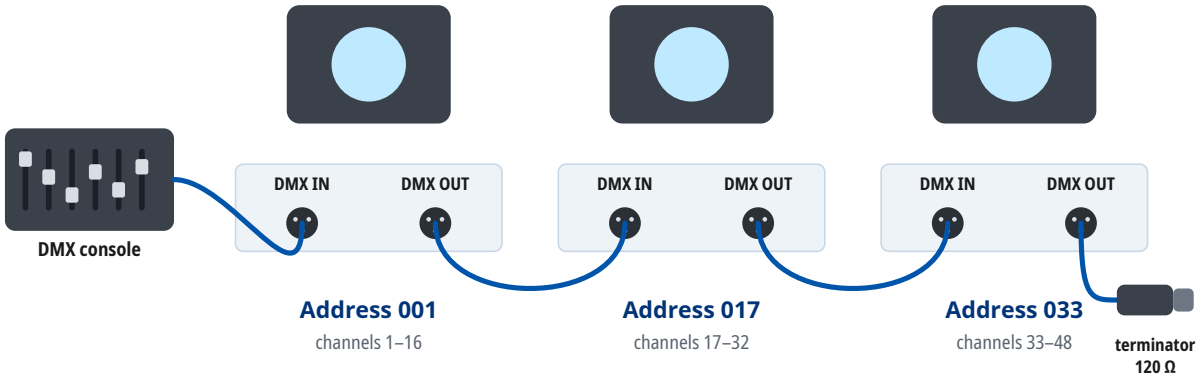
6 Connections

- 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 16 Channel: every unit occupies 16 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.

7 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 “16 Channel”: 16.
- 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 “16 Channel”, you can use, for example, the start addresses 1, 17, 33, 49.
- The DMX mode set on the device must match the fixture profile (personality) used in the controller.

8 Functions at a glance

Functions in each DMX mode

	16 Channel 16 channels
Pan / Tilt	10, 12
Dimmer	3
Shutter / strobe	2
Color wheel	1
Gobo wheel	4
Prism	5, 6
Frost	8
Focus	9
Effects / macros	14

Color wheel

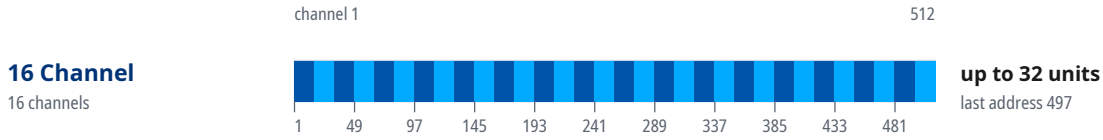


Gobo wheel

1	Open	DMX 1–7	6	Gobo 5	DMX 42–50	11	Gobo 10	DMX 85–92
2	Gobo 1	DMX 8–16	7	Gobo 6	DMX 51–58	12	Gobo 11	DMX 93–101
3	Gobo 2	DMX 17–24	8	Gobo 7	DMX 59–67	13	Gobo 12	DMX 102–109
4	Gobo 3	DMX 25–33	9	Gobo 8	DMX 68–75	14	Gobo 13	DMX 110–118
5	Gobo 4	DMX 34–41	10	Gobo 9	DMX 76–84	15	Gobo 14	DMX 119–127

9 DMX channels

Units in one DMX universe



Start addresses of 20 units in the mode “16 Channel”

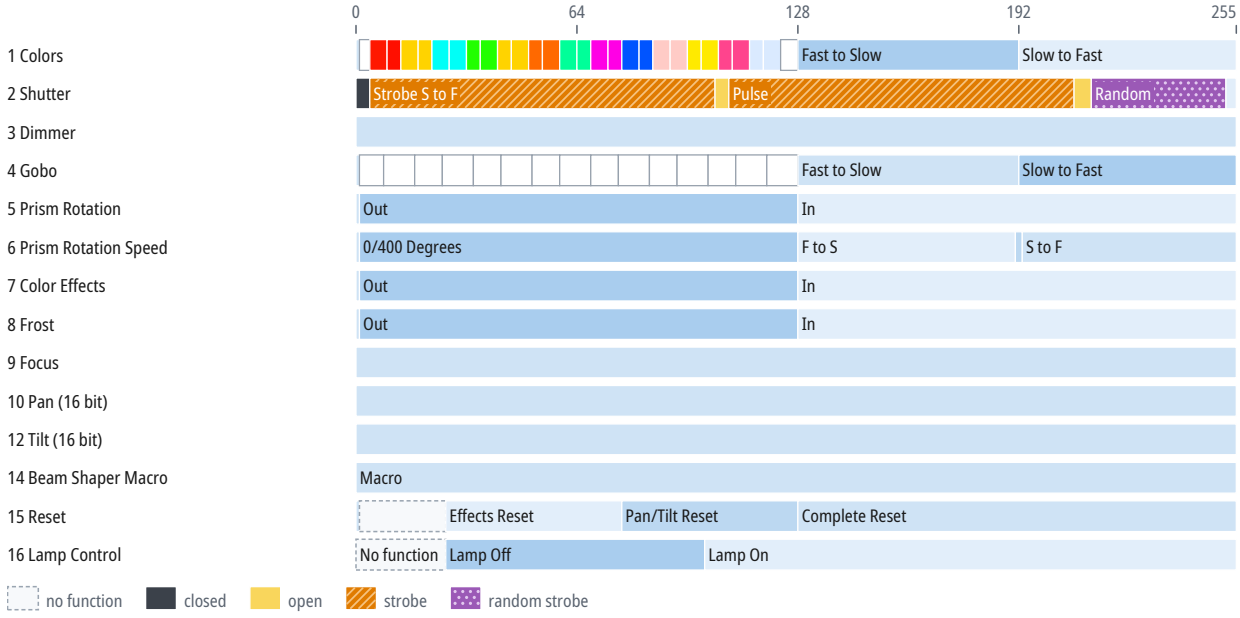
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	81	11	161	16	241
2	17	7	97	12	177	17	257
3	33	8	113	13	193	18	273
4	49	9	129	14	209	19	289
5	65	10	145	15	225	20	305

Mode 16 Channel

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 2 Shutter at 104–107 or 208–212 or 252–255; CH 3 Dimmer above 0.

Channel functions at a glance



CH	Function	DMX	Description
1	Colors		Color Wheel
		0	Color Wheel
		1–3	Open
		4–8	Open/Red
		9–12	Red
		13–17	Red/Yellow
		18–21	Yellow
		22–26	Yellow/Cyan
		27–31	Cyan
		32–35	Cyan/Green
		36–40	Green
		41–44	Green/Gold
		45–49	Gold
		50–53	Gold/Amber
		54–58	Amber
		59–63	Amber/Lime
		64–67	Lime
		68–72	Lime/Magenta
		73–76	Magenta
		77–81	Magenta/Blue
		82–85	Blue
		86–90	Blue/CTO
		91–95	CTO
		96–99	CTO/Straw
		100–104	Straw
		105–108	Straw/Pink
		109–113	Pink
		114–117	Pink/CTB
		118–122	CTB
		123–127	CTB/Open
		128–191	Fast to Slow
		192–255	Slow to Fast
2	Shutter	0–3	Closed
		4–103	Strobe S to F
		104–107	Open 1
		108–207	Pulse
		208–212	Open 2
		213–251	Random
		252–255	Open 3
3	Dimmer	0–255	
4	Gobo		Gobo Wheel

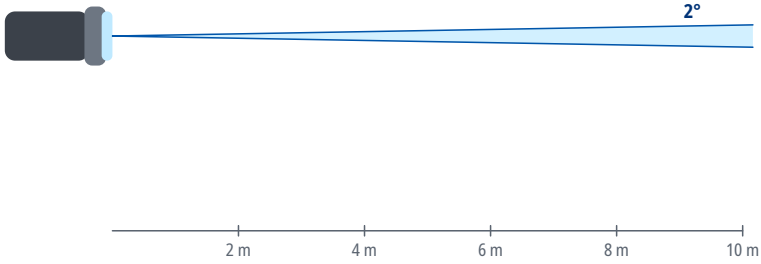
CH	Function	DMX	Description
4	Gobo (continued)	0	Gobo Wheel
		1–7	Open
		8–16	Gobo 1
		17–24	Gobo 2
		25–33	Gobo 3
		34–41	Gobo 4
		42–50	Gobo 5
		51–58	Gobo 6
		59–67	Gobo 7
		68–75	Gobo 8
		76–84	Gobo 9
		85–92	Gobo 10
		93–101	Gobo 11
		102–109	Gobo 12
		110–118	Gobo 13
		119–127	Gobo 14
		128–191	Fast to Slow
		192–255	Slow to Fast
5	Prism Rotation	0	Prism 1 Pos 1
		1–127	Out
		128–255	In
6	Prism Rotation Speed	0	Prism 1 Pos Rotate 1
		1–127	0/400 Degrees
		128–190	F to S
		191–192	STOP
		193–255	S to F
7	Color Effects		Colourful Effect
		0	Colourful Effect
		1–127	Out
		128–255	In
8	Frost	0	Frost 1 1
		1–127	Out
		128–255	In
9	Focus	0–255	
10	Pan	0–255	
11	Pan Fine	0–255	Fine adjustment of CH 10
12	Tilt	0–255	
13	Tilt Fine	0–255	Fine adjustment of CH 12
14	Beam Shaper Macro	0–255	Macro
15	Reset	0	Fixture Global Reset 1
		1–25	No Function
		26–76	Effects Reset

CH	Function	DMX	Description
15	Reset (continued)	77–127	Pan/Tilt Reset
		128–255	Complete Reset
16	Lamp Control	0–25	No function
		26–100	Lamp Off
		101–255	Lamp On

10 Technical specifications

Parameter	Value
Light	
Light source	discharge lamp
Lamp power	230 W
Luminous flux	1,000 lm
Color temperature	8,000 K
Color rendering index (CRI)	85
Optics	
Beam angle	2°
Dimensions and construction	
Weight	12 kg
Operating environment	
Ingress protection	IP20
Meaning of the IP code (IEC 60529)	Protected against contact with a finger and solid objects of 12.5 mm diameter and larger; no protection against water
Operating temperature	0 to 40 °C

Spot diameter



Distance	Ø 2°
2 m	0.07 m
4 m	0.14 m
6 m	0.21 m
8 m	0.28 m
10 m	0.35 m
15 m	0.52 m

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

11 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.

12 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.
Movement is reversed	Check whether Pan/Tilt inversion is enabled in the device menu or in the controller.
Moving parts do not reach the correct position after power-on or transport	Switch the device off and on again to reset the position, and make sure the transport lock, if any, is released. If this does not help, contact a service center.
Movement is jerky	Check the value of the Pan/Tilt speed channel, if the device has one, and the stability of the DMX signal.

13 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.