DMX REFERENCE

Favo

Favolite F-0760BW

Bombee

Manufacturer	Bombee
GDTF file	Bombee_Favo_128077.gdtf
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1 About this manual

This document describes the Favolite F-0760BW by Bombee. It was compiled from the GDTF file Bombee_Favo_128077.gdtf from the GDTF-Share library.

File revision: “Pantilt and shutter, Uploaded to GDTF Share.”.

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 Bombee; 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	9 kg

DMX modes

Mode	Channels	Units in one universe	First start addresses
21 Channel Mode	21	24	1, 22, 43, 64, ...

No light? Check these channels

- 21 Channel Mode: CH 11 Shutter at 0–131 “Open”; CH 12 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.
- 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

Range of movement



5 Installation

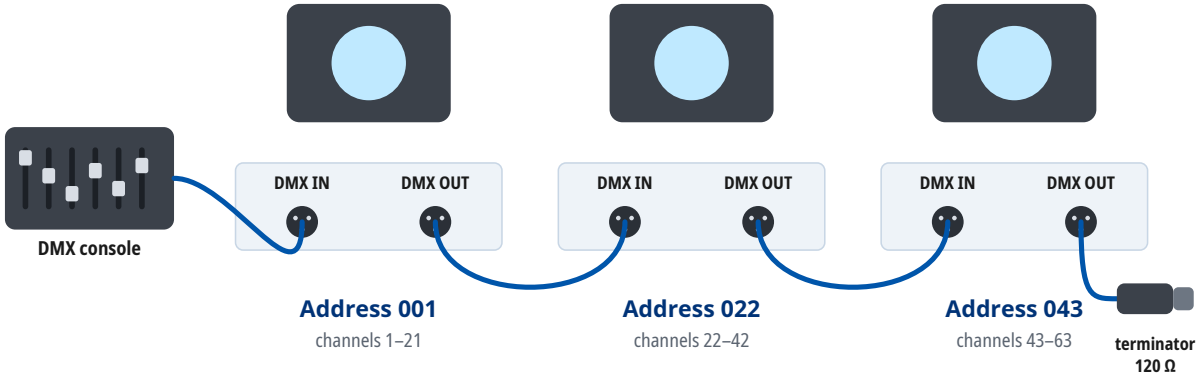
> ⚠ **WARNING**
>
> - Rigging must be carried out only by qualified persons in accordance with applicable regulations, in particular those for work at height.
> - The supporting structure and fixings must safely carry the weight of all suspended devices; verify their load capacity in advance.
> - Weight of the device: 9 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 21 Channel Mode: every unit occupies 21 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

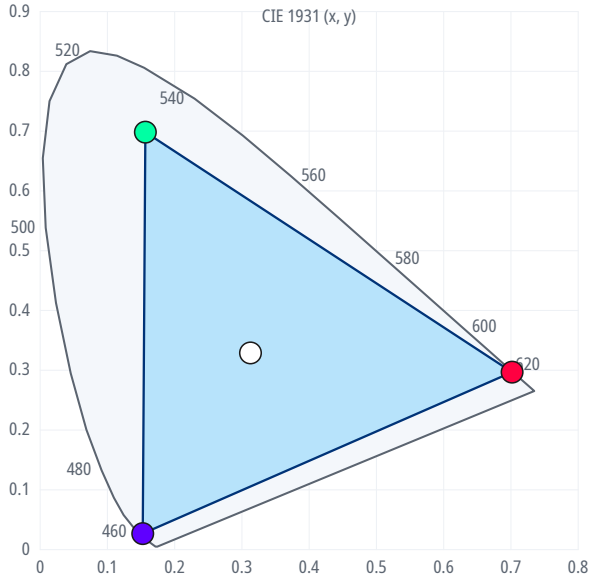
- The device occupies as many consecutive channels in the DMX universe as the selected DMX mode uses, starting at the set start address.
- Number of channels occupied in the DMX mode “21 Channel Mode”: 21.
- Choose start addresses so that the channels of individual devices do not overlap and the last 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 “21 Channel Mode”, you can use, for example, the start addresses 1, 22, 43, 64.
- 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

	21 Channel Mode 21 channels
Pan / Tilt	14, 16
Dimmer	12
Shutter / strobe	11
Color mixing	4× (1–7)
Color temperature	9
Zoom	20
Effects / macros	10

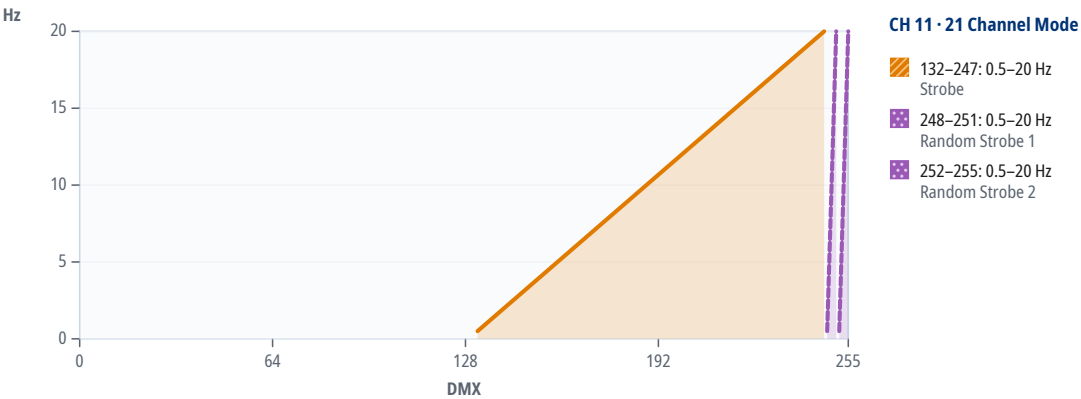
LED colors and the colors they mix



LED	x	y
BeamRed	0.702	0.297
BeamGreen	0.156	0.698
BeamBlue	0.152	0.027
BeamWhite	0.313	0.329

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

Strobe rate



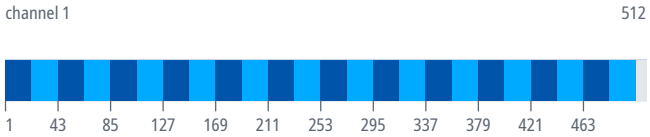
CH 11 · 21 Channel Mode

- 132–247: 0.5–20 Hz
  Strobe
- 248–251: 0.5–20 Hz
  Random Strobe 1
- 252–255: 0.5–20 Hz
  Random Strobe 2

9 DMX channels

Units in one DMX universe

21 Channel Mode
21 channels



up to 24 units
last address 484

Start addresses of 20 units in the mode “21 Channel Mode”

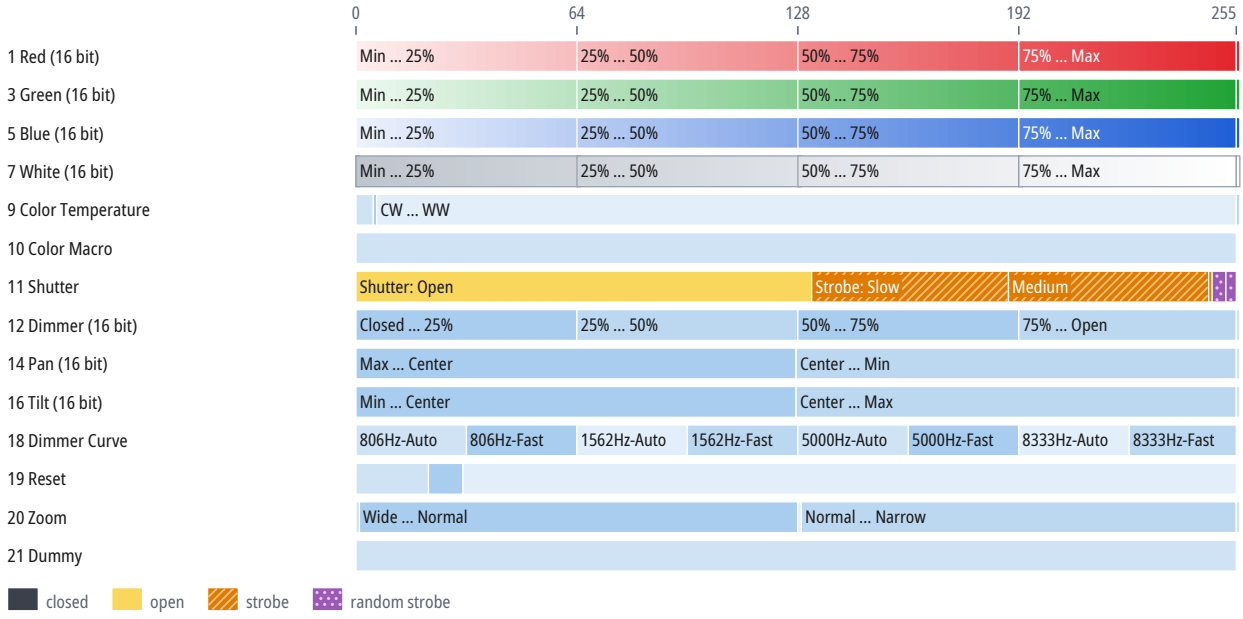
Unit	Start address	Unit	Start address	Unit	Start address	Unit	Start address
1	1	6	106	11	211	16	316
2	22	7	127	12	232	17	337
3	43	8	148	13	253	18	358
4	64	9	169	14	274	19	379
5	85	10	190	15	295	20	400

Mode 21 Channel Mode

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 11 Shutter at 0–131 “Open”; CH 12 Dimmer above 0. The GDTF file gives these values for a console's Highlight function: CH 1 Red 255, CH 3 Green 255, CH 5 Blue 255, CH 7 White 255, CH 12 Dimmer 255.

Channel functions at a glance



CH	Function	DMX	Description
1	Red	0–64	Min ... 25%
		64–128	25% ... 50%
		128–192	50% ... 75%
		192–255	75% ... Max
		255	Max

CH	Function	DMX	Description
2	Red Fine	0–255	Fine adjustment of CH 1
3	Green	0–64	Min ... 25%
		64–128	25% ... 50%
		128–192	50% ... 75%
		192–255	75% ... Max
		255	Max
4	Green Fine	0–255	Fine adjustment of CH 3
5	Blue	0–64	Min ... 25%
		64–128	25% ... 50%
		128–192	50% ... 75%
		192–255	75% ... Max
		255	Max
6	Blue Fine	0–255	Fine adjustment of CH 5
7	White	0–64	Min ... 25%
		64–128	25% ... 50%
		128–192	50% ... 75%
		192–255	75% ... Max
		255	Max
8	White Fine	0–255	Fine adjustment of CH 7
9	Color Temperature	0–4	Disabled
		5	CW
		6–254	CW ... WW
		255	WW
10	Color Macro	0–255	
11	Shutter	0–131	Shutter: Open
		132–188	Strobe: Slow
		189–246	Medium
		247	Strobe: Fast
		248–251	Random Strobe 1 (0.5–20 Hz)
		252–255	Random Strobe 2 (0.5–20 Hz)
12	Dimmer	0–64	Closed ... 25%
		64–128	25% ... 50%
		128–192	50% ... 75%
		192–255	75% ... Open
		255	Open
13	Dimmer Fine	0–255	Fine adjustment of CH 12
14	Pan	0–127	Max ... Center
		128–255	Center ... Min
		255	Min
15	Pan Fine	0–255	Fine adjustment of CH 14
16	Tilt	0–127	Min ... Center
		128–255	Center ... Max

CH	Function	DMX	Description
16	Tilt (continued)	255	Max
17	Tilt Fine	0–255	Fine adjustment of CH 16
18	Dimmer Curve	0–31	806Hz-Auto
		32–63	806Hz-Fast
		64–95	1562Hz-Auto
		96–127	1562Hz-Fast
		128–159	5000Hz-Auto
		160–191	5000Hz-Fast
		192–223	8333Hz-Auto
		224–255	8333Hz-Fast
19	Reset	0–20	Fixture Global Reset
		21–30	Reset All
		31–255	Fixture Global Reset
20	Zoom	0	Wide
		1–127	Wide ... Normal
		128	Normal
		129–254	Normal ... Narrow
		255	Narrow
21	Dummy	0–255	

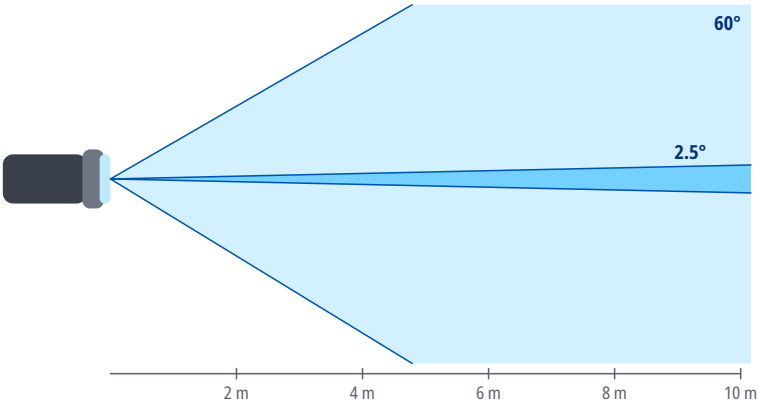
10 Technical specifications

Parameter	Value
Light	
Light source	LED
LED power	420 W
Luminous flux	1,000 lm
Color temperature	6,500 K
Color rendering index (CRI)	100
Optics	
Zoom	2.5–60°
Movement	
Pan	540°
Tilt	232°
Dimensions and construction	
Weight	9 kg
Operating environment	
Operating temperature	5 to 40 °C

Speeds and ranges

Parameter	Value
Color temperature range	2500–8000 K
Strobe frequency	0.5–20 Hz

Spot diameter



Distance	Ø 2.5°	Ø 60°
2 m	0.09 m	2.3 m
4 m	0.17 m	4.6 m
6 m	0.26 m	6.9 m
8 m	0.35 m	9.2 m
10 m	0.44 m	11.5 m
15 m	0.65 m	17.3 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.