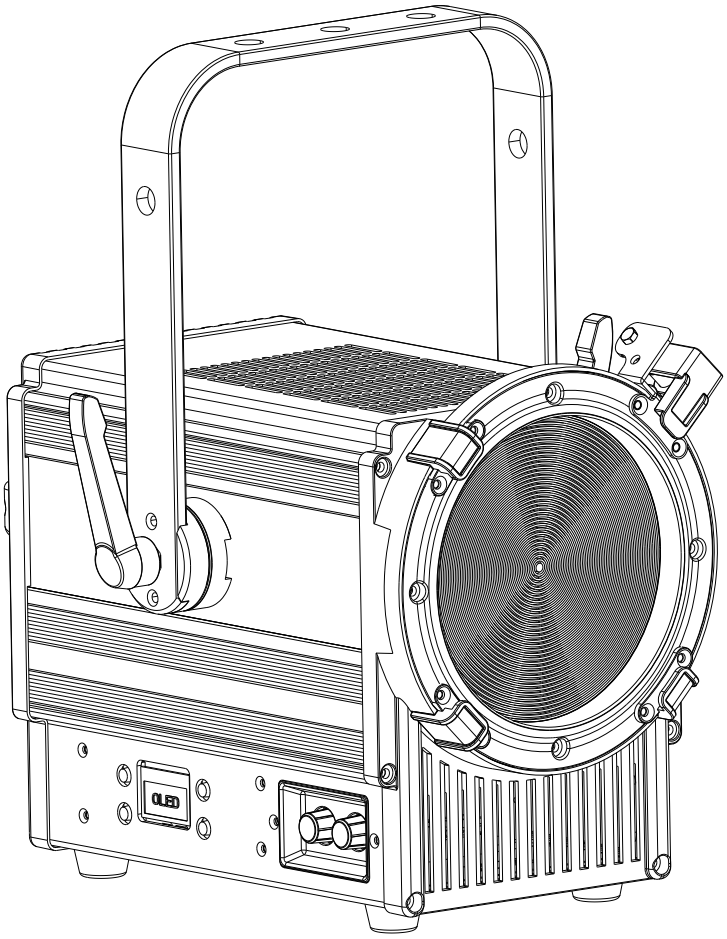
BT-THEATRE 261FC



ENGLISH

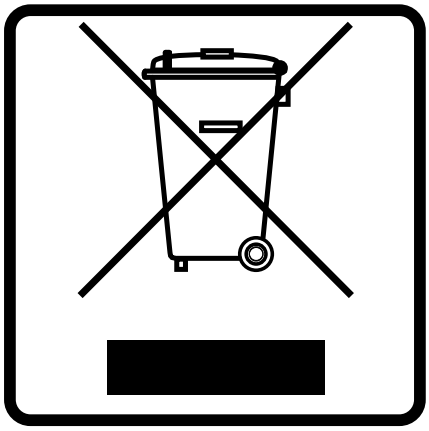
Operation Manual

Other languages can be downloaded from:
WWW.BRITEQ-LIGHTING.COM

CE

Version: 1.0

BRITEQ®
LIGHT RESEARCH



EN - DISPOSAL OF THE DEVICE
Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

FR - DÉCLASSER L'APPAREIL
Débarrassez-vous de l'appareil et des piles usagées de manière écologique
Conformément aux dispositions légales de votre pays.

NL - VERWIJDEREN VAN HET APPARAAT
Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

DU - ENTSORGUNG DES GERÄTS
Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

ES - DESHACERSE DEL APARATO
Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su pais.

PT - COMO DESFAZER-SE DA UNIDADE
Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.

OPERATION MANUAL

Thank you for buying this Briteq® product. To take full advantage of all possibilities and for your own safety, please read these operating instructions very carefully before you start using this unit.

FEATURES

- A powerful "6-IN-1" FULL COLOR LED theater Fresnel with manual 15° ~ 50° zoom.
- No more need for separate white and color projectors, BT-THEATRE 261FC does it all:
  - Perfect WHITE with high CRI > 93Ra and several CCT presets
  - Rich COLOR selection with color presets following the LEE® numbering!
- Thanks to the Color Calibration System, there are no more the color differences between different batches!
- Different CCT presets for white: 1800K, 3000K, 4000K, …, 8000K
- Very realistic redshift emulation during projector dimming.
- The 94 most used color presets (LEE® numbering) can be selected!
- The 200watt 6-color RGBALC-LED (Red, Green, Blue, Amber, Lime, Cyan) assures a very wide color gamut.
- Very silent operation: heat-pipe technology with low noise cooling fan and different presets (live, studio, …)
- DMX-controlled: 10 different channel modes (1 to 21 channels) for maximum flexibility.
- Prepared for wireless DMX: just plug-in an optional WTR-DMX DONGLE ! (Briteq® code: 4645)
- RDM-functionality for easy remote setup: DMX addressing, channel mode, …
- Flicker free TV-recordings thanks to the adjustable high LED-refresh rate!
- Four dimmer settings with different behavior & speed.
- Standalone mode: manual control for dimming, color/CCT presets, green/magenta shift & zoom.
- OLED-display to navigate easily through the setup menu!
- In case of DMX failure, you can choose between manual, blackout and freeze mode.
- Lock function to avoid unwanted altering of the settings.
- Eight-leaf barndoor included.
- Rugged extruded aluminum housing.
- 3 & 5pin DMX in/outputs + PowerCON® compatible in/outputs for easy daisy chaining.

BEFORE USE

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.

Check the contents:

Check that the carton contains the following items:

- English operating instructions, other languages can be downloaded from our website.
- BT-THEATRE 261FC
- Color frame
- Eight-leaf barndoor
- PowerCON® compatible mains cable

SAFETY INSTRUCTIONS:

CAUTION: To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.

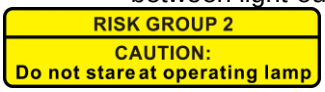
The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the use or the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

This symbol means: indoor use only

This symbol means: Read instructions

This symbol determines: the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than 1 meters

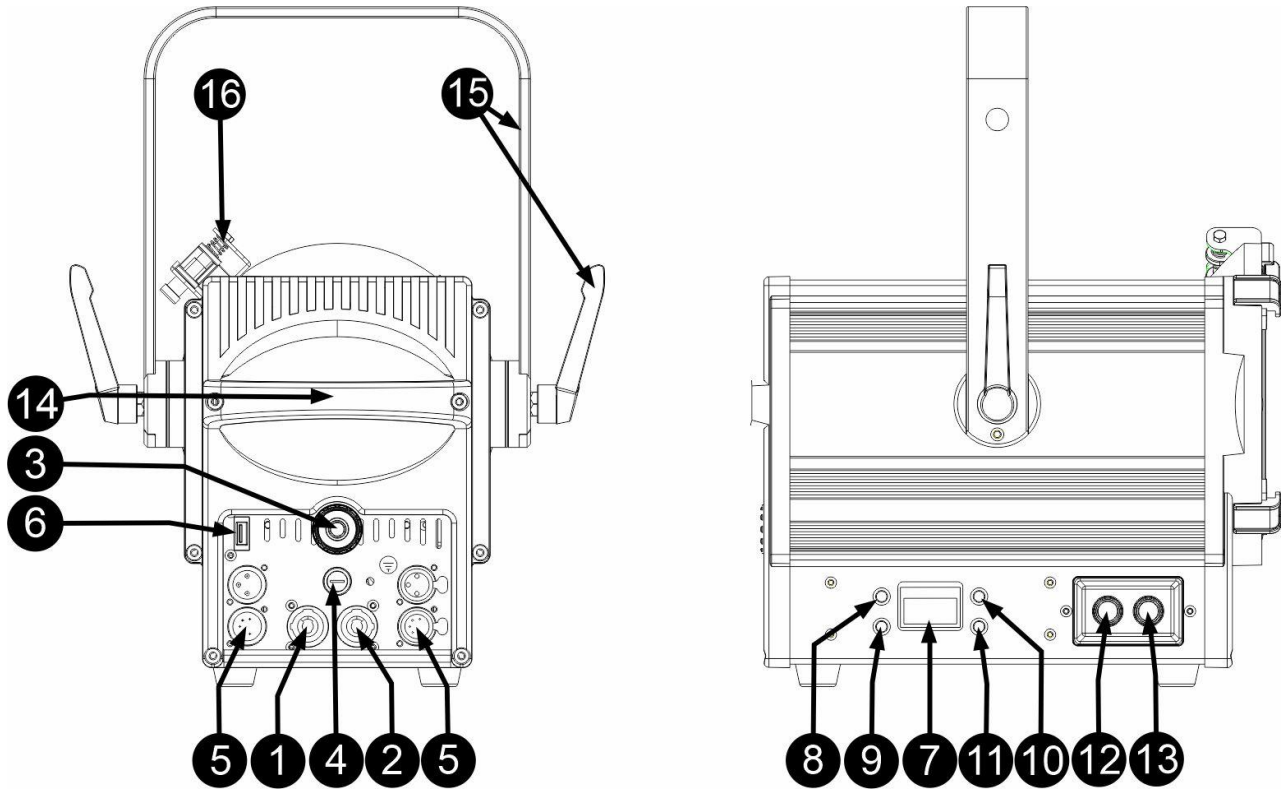


CAUTION: Do not stare at operating lamp.
May be harmful to the eyes.

- To protect the environment, please try to recycle the packing material as much as possible.
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- This unit is for indoor use only.
- Don’t place metal objects or spill liquid inside the unit. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- Locate the fixture in a well-ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls.
- Don’t cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum safe ambient temperature is 40°C. Don’t use this unit at higher ambient temperatures.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Allow the device about 10 minutes to cool down before to start servicing.
- Always unplug the unit when it is not used for a longer time or before to start servicing.
- The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated on the unit.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power-cord come into contact with other cables!
- This fixture must be earthed in order to comply with safety regulations.
- Don’t connect the unit to any dimmer pack.
- Always use an appropriate and certified safety cable when installing the unit.
- In order to prevent electric shock, do not open the cover. Apart from the mains fuse there are no user serviceable parts inside.
- **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the fixture and contact your dealer immediately.
- The housing and the lenses must be replaced if they are visibly damaged.
- Please use the original packing when the device is to be transported.
- Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

Important: Never look directly into the light source! Don’t use the effect in the presence of persons suffering from epilepsy.

DESCRIPTION:



1. **MAINS INPUT:** equipped with PowerCON® compatible connectors. Connect the supplied mains cable or any PowerCON® compatible extension cable here.
2. **MAINS OUTPUT:** used to daisy chain the power to several other projectors. Always pay attention to the maximum load while adding projectors! Special Multi cables (PowerCON® + DMX XLR-cables are optionally available: see our website!)
3. **FOCUS KNOB:** used to adjust the beam angle manually.
4. **MAINS FUSE:** protects the unit in case of electrical problems, always use the prescribed fuse!
5. **DMX IN/OUT:** both 3pin and 5pin in/outputs are available to daisy chain the projector with other units that will be controlled by a DMX-controller.
6. **M-DMX INPUT:** Please note that this USB-connector is NOT used for updates or to connect the unit to a PC! Instead this USB-connector makes it very easy to add wireless DMX to the unit! Just add the (optional) WTR-DMX DONGLE from BRITEQ® and you will get wireless DMX! Moreover, you will be able to connect other DMX-controlled equipment to the DMX-output so you can share the wireless DMX function with all connected units! No extra settings to be made in the setup menu, just follow the procedure in the user manual supplied with the WTR-DMX DONGLE from BRITEQ®. The separate WTR-DMX DONGLE is available from WWW.BRITEQ-LIGHTING.COM (order code: 4645)
7. **DISPLAY:** shows the various menus and the selected functions.
8. **MENU-button:** used to enter and exit the setup menu or to jump to a higher level in the setup menu.
9. **ENTER-button:** used to select a menu option or confirm a setting.
10. **▲-button:** used to go to the previous menu option or to increase a parameter value.
11. **▼-button:** used to go to the next menu option or to decrease a parameter value.
12. **DIMMER KNOB:** turn the encoder to change the light output manually. Press the encoder for 2 seconds if you want to save the new light output value for future use.
13. **CONTROL KNOB:** this knob has several functions.
    - **CHANGE CCT:** press the encoder until the display shows [CCT]. Turn the encoder to select the desired CCT-preset. Press the encoder for 2 seconds if you want to save the new CCT for future use. Press the encoder again shortly to select the next function.
    - **CHANGE GREEN/MAGENTA CORRECTION:** press the encoder until the display shows [TINT]. Turn the encoder to select the desired color correction. Press the encoder for 2 seconds if you want to save the new correction for future use. Press the encoder again shortly to select the next function.
    - **COLOR PRESETS:** press the encoder until the display shows [COLOR PRESET]. Turn the encoder to select the desired color preset. Press the encoder for 2 seconds if you want to save the new color preset for future use. Press the encoder again shortly to select the next function.

14. **HANDLE:** used for aligning the spotlight. Can also be used to attach the safety cable during installation, see paragraph “overhead rigging”.
15. **HANGING BRACKET:** with a knob on both sides to fasten the unit in the desired position. You can use the hole in the center of the bracket to fix a hook or truss clamp.
16. **LOCKING CLIP:** The clip is used to keep the barndoor and color frame in place. Push the clip aside to open it.
17. **BARN DOOR:** they facilitate shaping of the beam of light from the fixture, and prevent the distinctive scatter of light created by the Fresnel lens from spilling into areas where it is not wanted, such as the eyes of audience members. Just rotate the barndoor in the desired position.

SETUP MENU / HOW TO SETUP

With the setup menu you can fully configure the projector. All settings are preserved when the unit is disconnected from the mains.

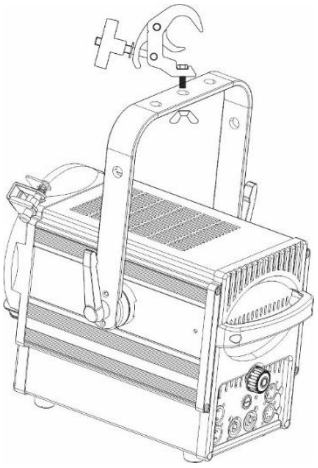
■ **[MENU] button:** press to enter / leave the setup menu.
► **[ENTER] button:** press to select / confirm or store the current menu option or value.
▲/▼ **[UP/DOWN] button:** press to navigate the setup menu or change a value.

DMX-Address	**001 - XXX**	
CHAN. Mode	**DIM (1CH)**	
	CCT (4CH)	
	EASY (6CH)	
	HSI (6CH)	
	HSIC FULL (12CH)	
	CMY (12CH)	
	FULL 8bit (14CH)	
	FULL 16bit(21CH)	
	RAW 8bit (9CH)	
	RAW 16bit (16CH)	
FIXTURE Set	**NO DMX Mode**	**Freeze**
		Blackout
		Blackout delayed
		Manual
	DIM Curve	**Linear**
		Square
		Inv. Square
		S-Curve
	DIM Behavior	**HALOGEN / LED**
	Red Shift	**ON /OFF**
	LED PWM-freq	**1200Hz → 25kHz**
	1CH CCT preset	**1800K → 8000K**
	Color Cal	**ON /OFF**
	FAN Set	**Low Auto High**
DISPLAY Set	**AUTO LOCK**	**ON /OFF**
	noDMX blink	**ON /OFF**
	Temp °C/F	**Celcius/Fahrenheit**
DEFAULTS	**Factory Settings**	**LOAD ?**
	USER Settings	**LOAD / SAVE ?**
INFORMATION	**Total LED Hours**	**xxxx Hrs**
	Last JOB hours	**xxxx Hrs**
	LED Temp.	**xxx °C / F**
	ERROR info	**xxxxxxxx**
	Model Name	**BT-THEATRE 261FC**
	Firmware V.	**V x.xx**
	RDM UID	**0x21220043xxxx**

OVERHEAD RIGGING

Important: The installation must be carried out by qualified service personal only. Improper installation can result in serious injuries and/or damage to property. Overhead rigging requires extensive experience! Working load limits should be respected, certified installation materials should be used, the installed device should be inspected regularly for safety.

- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the fixture in a well-ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed **at least 50cm** from surrounding walls.
- The device should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Before rigging make sure that the installation area can hold a minimum point load of 10times the device's weight.
- Always use a certified safety cable that can hold 12times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.
- The device should be well fixed; a free-swinging mounting is dangerous and may not be considered!
- Don't cover any ventilation openings as this may result in overheating.
- The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert before using them for the first time. The installations should be inspected every year by a skilled person to be sure that safety is still optimal.

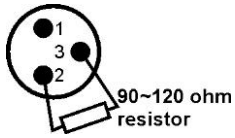


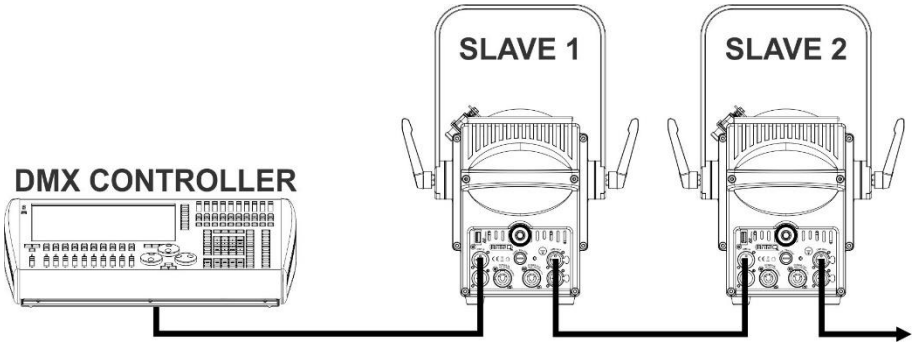
ELECTRICAL INSTALLATION

Important: The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.

Electrical installation for two or more units in DMX-mode:

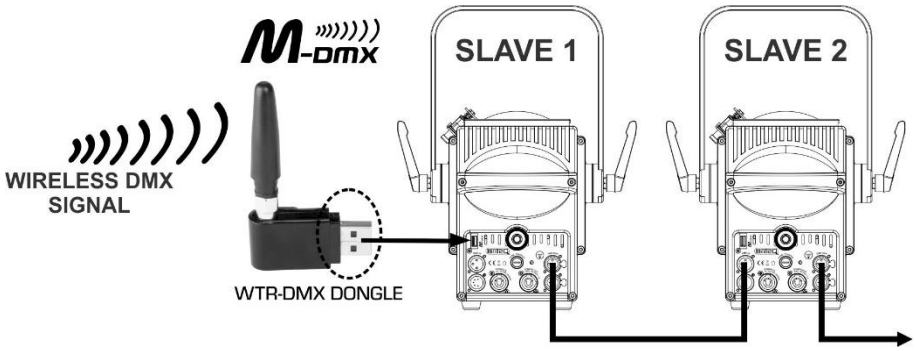
- The DMX-protocol is a widely used high speed signal to control intelligent light equipment. You need to "daisy chain" your DMX controller and all the connected units.
- Pin layout XLR-3pin: Pin1 = GND ~ Pin2 = Negative signal (-) ~ Pin3 = Positive signal (+)
- To prevent strange behavior of the light effects, due to interferences, you must use a 90Ω to 120Ω terminator at the end of the chain. Never use Y-splitter cables, this simply won't work!
- Make sure that all units are connected to the mains.
- Each unit in the chain needs to have its proper starting address so it knows which commands from the controller it has to decode.





Electrical installation for two or more units in WIRELESS DMX:
Same procedure as for a standard DMX-setup but 2 possibilities:

- **Pure W-DMX:** all projectors are equipped with an optional WTR-DMX DONGLE ! (Briteq code: 4645). The DMX-controller send a WIRELESS DMX-signal to all units.
- **Mixed W-DMX:** the first projector is equipped with an optional WTR-DMX DONGLE ! (Briteq code: 4645). The wireless DMX-signal sent to the first projector is also available on its DMX-output. All other DMX-equipment can be connected to the first projector using a standard DMX-cable.



RDM FUNCTIONS / REMOTE SETUP

RDM means "**R**emote **D**evice **M**anagement". This projector works with a brief set of RDM-functions which means that it can setup a bi-directional communication with an RDM-compatible DMX-controller. Some of these functions are briefly explained below, others will be added in the future.

- The DMX-controller sends out a "discovery command", all RDM devices respond and send their unique device ID.
- The DMX-controller asks each RDM device for some basic data so it knows which devices are connected. The projector will respond:
  - **Device name:** BT-THEATRE 261FC
  - **Manufacturer:** Briteq®
  - **Category:** LED Dimmer
  - **Firmware:** x.x.x.x (firmware version of the projector)
  - **DMX address:** xxx (current DMX start address of the projector)
  - **DMX footprint:** xx (number of DMX-channels used by the projector)
  - **Personality:** xx (current personality [or DMX-working mode] used by the projectors)
- The DMX-controller can send certain commands to each RDM device which allow remote setup of the units. Thanks to this the projector can be setup remotely.

The following functions can be managed remotely:
No more need to take a ladder and set all units one by one!

- **DMX START ADDRESS:** The start address can be set remotely from 001 to xxx.
- **PERSONALITY:** The DMX working mode (DMX-chart) can be set remotely.

These 2 functions make it possible to prepare a complete DMX-patch of all projectors on the DMX-controller and send these data to all projectors at once. More functions will be added later.

DMX CHARTS

Personalities: Dim (1ch), CCT (4ch), Easy (6ch), HSI (6ch), HSIC Full (12ch), CMY (12ch), Full 8bit (14ch), Full 16bit (21ch), RAW 8bit (9ch), RAW 16bit (16ch)

SIMPLE CHART

DIM	CCT	EASY	HSI	HSIC FULL	CMY	FULL 8bit	FULL 16bit	RAW 8bit	RAW 16bit	VALUE	FUNCTION
1CH	*4CH*	*6CH*	*6CH*	*12CH*	*12CH*	*14CH*	*21CH*	*9CH*	*16CH*		
1	1	1	1	1	1	1	1	1	1	000-255	MASTER DIMMER
				2	2		2		2	000-255	MASTER DIMMER FINE
	2	2	2	3	3	2	3	2	3	000-255	STROBE
	3	3		4	4	3	4			000-255	CCT (Color temperature)
	4			5	5	4	5			000-255	TINT: GREEN / MAGENTA correction
		4		6	6	5	6			000-255	X-FADE: CCT ↔ COLOR
		5		7	7	6	7			000-255	COLOR FILTER PRESETS (White point = 3200K)
		6		8	8	7	8			000-255	COLOR FILTER FADE-OVER TIME
			3	9						000-255	HUE
			4	10						000-255	HUE FINE
			5	11						000-255	SATURATION
						8	9	3	4	000-255	RED
							10		5	000-255	RED FINE
						9	11	4	6	000-255	GREEN
							12		7	000-255	GREEN FINE
						10	13	5	8	000-255	BLUE
							14		9	000-255	BLUE FINE
						11	15	6	10	000-255	AMBER
							16		11	000-255	AMBER FINE
						12	17	7	12	000-255	LIME
							18		13	000-255	LIME FINE
					9	13	19	8	14	000-255	CYAN
							20		15	000-255	CYAN FINE
					10					000-255	MAGENTA
					11					000-255	YELLOW
			6	12	12	14	21	9	16	000-255	CONTROL (active after 3s)

FULL CHART

DIM	CCT	EASY	HSI	HSIC FULL	CMY	FULL 8bit	FULL 16bit	RAW 8bit	RAW 16bit	VALUE	FUNCTION
1	1	1	1	1	1	1	1	1	1	000-255	MASTER DIMMER
				2	2		2		2	000-255	MASTER DIMMER FINE
	2	2	2	3	3	2	3	2	3	**STROBE**	
										000-005	Open (no strobe)
										006-125	Normal strobe (slow → fast)
										126-135	Open (no strobe)
										136-255	Random strobe (slow → fast)
	3	3		4	4	3	4			**CCT (Color temperature)**	
										000-009	NO FUNCTION
										010-255	1800K ↔ 8000K
	4			5	5	4	5			**TINT: GREEN / MAGENTA correction**	
										000-016	NEUTRAL / no effect
										017-116	MAGENTA 99% ↔ 1%
										117-139	NEUTRAL / no effect
										140-239	GREEN 1% ↔ 99%
										240-255	GREEN 100%
		4		6	6	5	6			000-255	X-FADE: CCT ↔ COLOR
		5		7	7	6	7			**COLOR FILTER PRESETS (White point = 3200K)**	
										000-005	NO FUNCTION - No Filters, color channels used
										006-193	Color filter presets **SEE NEXT TABLE for details!**
										194-195	USER Color 1
										196-197	USER Color 2
										198-199	USER Color 3
										200-201	USER Color 4
										202-204	USER Color 5
										205-255	COLOR SCROLL: slow ↔ fast
		6		8	8	7	8			000-255	COLOR FILTER FADE-OVER TIME
			3	9						000-255	HUE

			4	**10**						000-255	HUE FINE
			5	**11**						000-255	SATURATION
						8	**9**	**3**	**4**	000-255	RED
							10		**5**	000-255	RED FINE
						9	**11**	**4**	**6**	000-255	GREEN
							12		**7**	000-255	GREEN FINE
						10	**13**	**5**	**8**	000-255	BLUE
							14		**9**	000-255	BLUE FINE
						11	**15**	**6**	**10**	000-255	AMBER
							16		**11**	000-255	AMBER FINE
						12	**17**	**7**	**12**	000-255	LIME
							18		**13**	000-255	LIME FINE
					9	**13**	**19**	**8**	**14**	000-255	CYAN
							20		**15**	000-255	CYAN FINE
					10					000-255	MAGENTA
					11					000-255	YELLOW
										CONTROL (active after 3 seconds)	
										000-005	NO FUNCTION
										006-010	DIM CURVE: LINEAR
										011-015	DIM CURVE: SQUARE
										016-020	DIM CURVE: INVERSE SQUARE
										021-025	DIM CURVE: S-CURVE
										026-035	RESERVED
										036-040	DIM BEHAVIOR: LED
										041-045	DIM BEHAVIOR: HALOGEN
										046-055	RESERVED
										056-060	No DMX: Freeze MODE
										061-065	No DMX: blackout delayed MODE
										066-070	No DMX: blackout MODE
										071-075	No DMX: Manual MODE
										076-085	RESERVED
										086-090	Display: BLINK ON
										091-095	Display: BLINK OFF
										096-160	RESERVED
										106-110	FAN MODE = low / silent
										111-115	FAN MODE = auto
			6	**12**	**12**	**14**	**21**	**9**	**16**	116-120	FAN MODE = high / performance
										121-130	RESERVED
										131-135	LED PWM = 1200Hz
										136-140	LED PWM = 2400Hz
										141-145	LED PWM = 3600Hz
										146-150	LED PWM = 7200Hz
										151-155	LED PWM = 14400Hz
										156-160	LED PWM = 20000Hz
										161-165	LED PWM = 25000Hz
										166-175	RESERVED
										176-180	RED SHIFT OFF
										181-185	RED SHIFT ON
										186-195	RESERVED
										196-200	LED CALIBRATION OFF
										201-205	LED CALIBRATION ON
										206-215	RESERVED
										216-220	RECORD USER Color 1
										221-225	RECORD USER Color 2
										226-230	RECORD USER Color 3
										231-235	RECORD USER Color 4
										236-240	RECORD USER Color 5
										241-255	RESERVED

COLOR PRESETS + LEE FILTER NAMES + CIE 1931 X/Y coordinates @ 3200K

Color preset	Value	Filter Preset	X	Y
Color preset 1	006-007	Filter 004 (Medium Bastard Amber)	*0,488*	*0,391*
Color preset 2	008-009	Filter 009 (Pale Amber Gold)	*0,479*	*0,417*
Color preset 3	010-011	Filter 017 (Surprise Peach)	*0,544*	*0,395*
Color preset 4	012-013	Filter 019 (Fire)	*0,665*	*0,33*
Color preset 5	014-015	Filter 021 (Gold Amber)	*0,611*	*0,383*
Color preset 6	016-017	Filter 025 (Sunset Red)	*0,62*	*0,354*
Color preset 7	018-019	Filter 026 (Bright Red)	*0,701*	*0,299*
Color preset 8	020-021	Filter 029 (Plasa Red)	*0,702*	*0,298*

Color preset 9	022-023	Filter 035 (Light Pink)	*0,462*	*0,37*
Color preset 10	024-025	Filter 036 (Medium Pink)	*0,495*	*0,345*
Color preset 11	026-027	Filter 049 (Medium Purple)	*0,474*	*0,197*
Color preset 12	028-029	Filter 052 (Light Lavender)	*0,391*	*0,315*
Color preset 13	030-031	Filter 058 (Lavender)	*0,312*	*0,185*
Color preset 14	032-033	Filter 068 (Sky Blue)	*0,174*	*0,207*
Color preset 15	034-035	Filter 071 (Tokyo Blue)	*0,154*	*0,035*
Color preset 16	036-037	Filter 075 (Evening Blue)	*0,198*	*0,192*
Color preset 17	038-039	Filter 079 (Just Blue)	*0,153*	*0,139*
Color preset 18	040-041	Filter 088 (Lime Green)	*0,429*	*0,505*
Color preset 19	042-043	Filter 089 (Moss Green)	*0,311*	*0,58*
Color preset 20	044-045	Filter 090 (Dark Yellow Green)	*0,196*	*0,685*
Color preset 21	046-047	Filter 102 (Light Amber)	*0,492*	*0,479*
Color preset 22	048-049	Filter 103 (Straw)	*0,458*	*0,416*
Color preset 23	050-051	Filter 106 (Primary Red)	*0,693*	*0,305*
Color preset 24	052-053	Filter 108 (English Rose)	*0,515*	*0,397*
Color preset 25	054-055	Filter 111 (Dark Pink)	*0,522*	*0,324*
Color preset 26	056-057	Filter 113 (Magenta)	*0,662*	*0,29*
Color preset 27	058-059	Filter 115 (Peacock Blue)	*0,198*	*0,414*
Color preset 28	060-061	Filter 116 (Med Blue-Green)	*0,13*	*0,4*
Color preset 29	062-063	Filter 117 (Steel Blue)	*0,332*	*0,39*
Color preset 30	064-065	Filter 118 (Light Blue)	*0,174*	*0,309*
Color preset 31	066-067	Filter 119 (Dark Blue)	*0,137*	*0,109*
Color preset 32	068-069	Filter 121 (LEE Green)	*0,392*	*0,53*
Color preset 33	070-071	Filter 122 (Fern Green)	*0,336*	*0,549*
Color preset 34	072-073	Filter 124 (Dark Green)	*0,212*	*0,618*
Color preset 35	074-075	Filter 126 (Mauve)	*0,463*	*0,18*
Color preset 36	076-077	Filter 127 (Smokey Pink)	*0,53*	*0,34*
Color preset 37	078-079	Filter 128 (Bright Pink)	*0,565*	*0,256*
Color preset 38	080-081	Filter 131 (Marine Blue)	*0,268*	*0,419*
Color preset 39	082-083	Filter 132 (Medium Blue)	*0,148*	*0,195*
Color preset 40	084-085	Filter 134 (Golden Amber)	*0,559*	*0,398*
Color preset 41	086-087	Filter 135 (Deep Golden Amber)	*0,649*	*0,35*
Color preset 42	088-089	Filter 136 (Pale Lavender)	*0,412*	*0,348*
Color preset 43	090-091	Filter 137 (Special Lavender)	*0,348*	*0,3*
Color preset 44	092-093	Filter 138 (Pale Green)	*0,419*	*0,463*
Color preset 45	094-095	Filter 139 (Primary Green)	*0,212*	*0,717*
Color preset 46	096-097	Filter 140 (Summer Blue)	*0,277*	*0,367*
Color preset 47	098-099	Filter 141 (Bright Blue)	*0,147*	*0,267*
Color preset 48	100-101	Filter 143 (Pale Navy Blue)	*0,241*	*0,32*
Color preset 49	102-103	Filter 147 (Apricot)	*0,534*	*0,404*
Color preset 50	104-105	Filter 148 (Bright Rose)	*0,617*	*0,302*
Color preset 51	106-107	Filter 152 (Pale Gold)	*0,472*	*0,4*
Color preset 52	108-109	Filter 154 (Pale Rose)	*0,465*	*0,393*
Color preset 53	110-111	Filter 157 (Pink)	*0,558*	*0,348*
Color preset 54	112-113	Filter 158 (Deep Orange)	*0,612*	*0,387*
Color preset 55	114-115	Filter 161 (Slate Blue)	*0,25*	*0,291*
Color preset 56	116-117	Filter 162 (Bastard Amber)	*0,458*	*0,402*
Color preset 57	118-119	Filter 164 (Flame Red)	*0,663*	*0,327*
Color preset 58	120-121	Filter 165 (Daylight Blue)	*0,211*	*0,273*
Color preset 59	122-123	Filter 169 (Lilac Tint)	*0,418*	*0,372*
Color preset 60	124-125	Filter 170 (Deep Lavender)	*0,412*	*0,317*
Color preset 61	126-127	Filter 172 (Lagoon Blue)	*0,151*	*0,332*
Color preset 62	128-129	Filter 174 (Dark Steel Blue)	*0,302*	*0,33*

Color preset 63	130-131	Filter 180 (Dark Lavender)	*0,283*	*0,164*
Color preset 64	132-133	Filter 181 (Congo Blue)	*0,187*	*0,058*
Color preset 65	134-135	Filter 182 (Light Red)	*0,686*	*0,311*
Color preset 66	136-137	Filter 194 (Surprise Pink)	*0,364*	*0,293*
Color preset 67	138-139	Filter 197 (Alice Blue)	*0,235*	*0,225*
Color preset 68	140-141	Filter 200 (double C.T. Blue)	*0,25*	*0,256*
Color preset 69	142-143	Filter 201 (Full C.T. Blue)	*0,33*	*0,339*
Color preset 70	144-145	Filter 202 (Half C.T. Blue)	*0,372*	*0,374*
Color preset 71	146-147	Filter 203 (Quarter C.T. Blue)	*0,398*	*0,39*
Color preset 72	148-149	Filter 204 (Full C.T. Orange)	*0,51*	*0,42*
Color preset 73	150-151	Filter 205 (Half C.T. Orange)	*0,474*	*0,417*
Color preset 74	152-153	Filter 206 (Quarter C.T. Orange)	*0,45*	*0,41*
Color preset 75	154-155	Filter 219 (Fluorescent Green)	*0,319*	*0,426*
Color preset 76	156-157	Filter 241 (LEE Fluor 5700K)	*0,324*	*0,396*
Color preset 77	158-159	Filter 242 (LEE Fluor 4300K)	*0,358*	*0,436*
Color preset 78	160-161	Filter 247 (LEE Minus Green)	*0,457*	*0,359*
Color preset 79	162-163	Filter 248 (Half Minus Green)	*0,441*	*0,378*
Color preset 80	164-165	Filter 281 (Three Quarter C.T. Blue)	*0,0349*	*0,35*
Color preset 81	166-167	Filter 285 (Three Quarter C.T. Orange)	*0,498*	*0,42*
Color preset 82	168-169	Filter 328 (Follies Pink)	*0,532*	*0,266*
Color preset 83	170-171	Filter 352 (Glacier Blue)	*0,217*	*0,304*
Color preset 84	172-173	Filter 353 (Lighter Blue)	*0,25*	*0,366*
Color preset 85	174-175	Filter 363 (Special Medium Blue)	*0,141*	*0,095*
Color preset 86	176-177	Filter 507 (Madge)	*0,668*	*0,331*
Color preset 87	178-179	Filter 706 (King False Lavender)	*0,271*	*0,168*
Color preset 88	180-181	Filter 711 (Cold Blue)	*0,319*	*0,318*
Color preset 89	182-183	Filter 724 (Ocean Blue)	*0,251*	*0,339*
Color preset 90	184-185	Filter 728 (Steel Green)	*0,358*	*0,402*
Color preset 91	186-187	Filter 747 (Easy White)	*0,497*	*0,396*
Color preset 92	188-189	Filter 778 (Millennium Gold)	*0,628*	*0,369*
Color preset 93	190-191	Filter 793 (Vanity Fair)	*0,591*	*0,258*
Color preset 94	192-193	Filter 798 (Chrysalis Pink)	*0,302*	*0,122*

MAINTENANCE

- Make sure the area below the installation place is free from unwanted persons during servicing.
- Switch off the unit, unplug the mains cable and wait until the unit has been cooled down.

During inspection the following points should be checked:

- All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- Housings, fixations and installations spots (ceiling, truss, suspensions) should be totally free from any deformation.
- When an optical lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.
- In order to protect the device from overheat the cooling fans (if any) and ventilation openings should be cleaned monthly.
- The interior of the device should be cleaned annually using a vacuum cleaner or air-jet.
- The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.
    - Clean with a soft cloth using normal glass cleaning products.
    - Always dry the parts carefully.

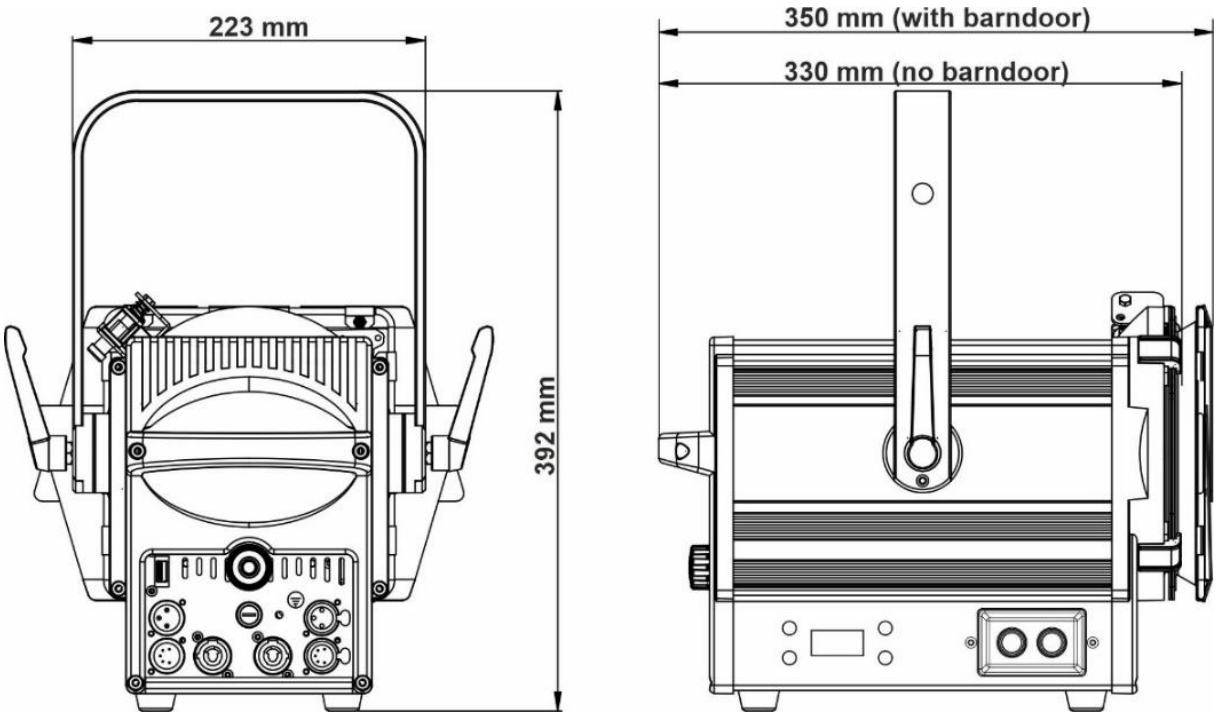
Attention: We strongly recommend internal cleaning to be carried out by qualified personnel!

SPECIFICATIONS

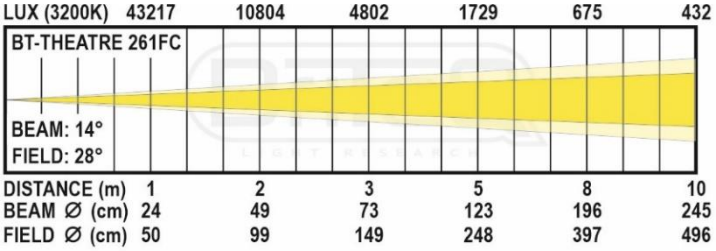
This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

Mains Input:	AC 110 - 240V, 50/60Hz
Fuse:	T5A / 250V (20x5mm)
Power consumption (max):	230 Watts
Power connections:	PowerCON® compatible input / output
DMX connections:	3&5 pin-XLR male / female inputs + outputs
Lamp:	RGBALC LED 200W
CRI:	>93
Beam Angle:	manual zoom 15° ~ 50°
Field Angle:	30° ~ 70°
IP-Rating:	IP20
Operating Temperature:	0°C – 45°C
Size:	See drawing
Weight:	8,2 kg

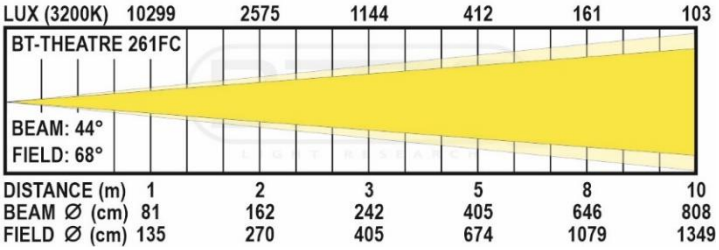
DIMENSIONS:



LUX CHART (CCT: 3200K)

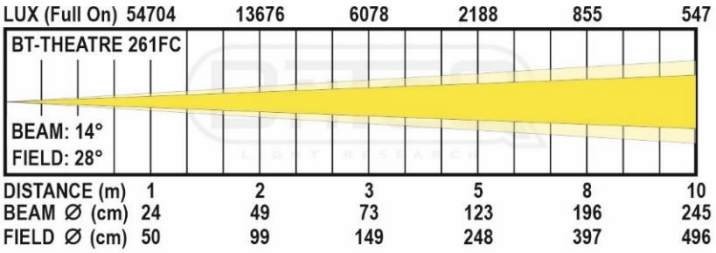


DISTANCE (m)	1	2	3	5	8	10
BEAM Ø (cm)	24	49	73	123	196	245
FIELD Ø (cm)	50	99	149	248	397	496

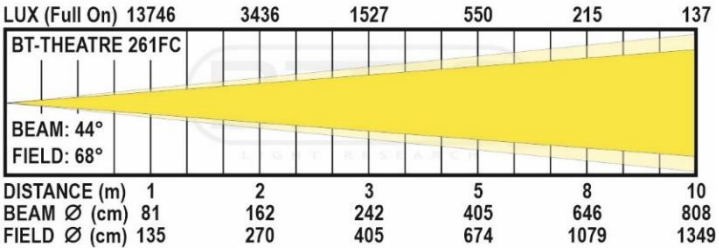


DISTANCE (m)	1	2	3	5	8	10
BEAM Ø (cm)	81	162	242	405	646	808
FIELD Ø (cm)	135	270	405	674	1079	1349

LUX CHART (FULL ON)



DISTANCE (m)	1	2	3	5	8	10
BEAM Ø (cm)	24	49	73	123	196	245
FIELD Ø (cm)	50	99	149	248	397	496



DISTANCE (m)	1	2	3	5	8	10
BEAM Ø (cm)	81	162	242	405	646	808
FIELD Ø (cm)	135	270	405	674	1079	1349

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LIGHT RESEARCH

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