DLED 4 Series

Light Heads and Power Supplies

INSTRUCTION MANUAL

DEDOLIGHT-SYSTEMS

Carefully read all of the following information before operating the dedolight DLED lights and their accessories.
This document contains important information regarding safety operation and maintenance of this system.

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Table of Content

1 General

PLEASE* NOTE*!!!
The dedolight LED lighting system (DLED) is an instrument for professional use. Please read this manual carefully.

During operation the luminaire (light head) may become hot (about 90°C). These areas are marked with stickers. Avoid long-term contact with these areas of the housing. Ensure adequate ventilation of the light head and keep a minimum distance of 0.5m from combustible materials.

Switch the system off and unplug the AC cable before making electrical connections.

The ballast DT4 is an independent electronic control-gear for the light head DLED4. In AC versions of DT4 the primary coils of the impulse transformer are directly connected to the mains power supply. The ballast DT4 provides Safe Extra Low Voltage (SELV). The ballast DT4 is limited power supply (LPS) type with constant current/ constant voltage output. In the light head DLED4 the voltages used are below 50V. There are no high frequencies or electro-magnetic interferences during operation. These devices are made according to universal low-voltage directives. A CE certificate is to be found at the end of this manual.

Electrical and electronic repairs, as well as replacement of the LED module, should be performed exclusively by Dedo Weigert Film GmbH or an authorized representative, or a qualified and trained electrician.

1.1 Explanation of Symbols

In this manual safety Notes are marked by symbols. Each of these safety Notes is introduced by words, clarifying the degree of hazard. In order to avoid accidents, personal injuries and property damage, these safety instructions are to be complied with prudently and carefully.

DANGER! ... Indicates a directly hazardous situation which may lead to death or serious injury if not avoided.

WARNING! ... Indicates a potentially Dangerous situation which could lead to death or serious injury if not avoided.

CAUTION! ... Indicates a potentially hazardous situation which could lead to minor injury if not avoided.

NOTE! ... Indicates a potentially Dangerous situation which could result in material and in environmental damage.

Recommendations ... this symbol highlights useful tips and recommendations for efficient and fault-free operation.

Special safety hints
To draw attention to special Dangers in the safety instructions, the following symbols are being used.

DANGER! ... Identifies hazards caused by electrical current. Ignoring such safety hints may result in severe injury or death.

Labels and Symbols in this manual

For the identification of instructions, descriptions of results, enumerations, references and other elements, this manual uses the following signs and highlighted symbols.

Number 1	indicates step by step instructions.
→	Indicates a condition or an automatic sequence as a result of an operation step.
●	Identifies lists and enumerations without fixed order.
▶	Indicates references to sections of this guide
[TASTE]	Indicates identifications of keys, buttons and other controls.

1.2 Limitations of liability

All information and instructions in this manual are assembled under consideration of applicable standards and regulations, state-of-the-art technology.

The manufacturer assumes no liability for damages due to:

- Failure to follow these instructions
- Improper use
- Use by untrained staff
- Unauthorized modifications
- Technical changes
- Use of unauthorized spare parts

The actual scope of delivery can differ from the descriptions given in this manual for special designs and utilizing additional order options or based on latest technical changes.

Agreements made according to the delivery contract are based on the general terms and conditions at the time of contract.

1.3 Copyright protection

This manual is protected by copyright and intended exclusively for internal purposes. The transfer of these instructions to third parties – including excerpts – as well as the utilization and/or disclosure of content without written consent of the manufacturer, except for internal purposes is not permitted.

Offenders will be liable to pay damages. Further claims remain reserved.

1.4 Parts

WARNING! Risk of injury by use of false spare parts.
The use of incorrect or faulty spare parts can cause **DANGER** or damage to personnel or result in total malfunction.

- Only use original spare parts from the manufacturer or parts which are approved by the manufacturer.
- In case of doubt always contact the manufacturer

Acquire spare parts only from authorized dealers or directly from the manufacturer.
Address see page 2.

1.5 Warranty

Dedo Weigert Film GmbH provides a warranty for 24 months from date of purchase (keep original invoice for the period of the warranty duration).
The warranty covers defects in manufacturing and material, but does not cover the light source itself.
The warranty does not cover any combination with devices from other manufacturers. The warranty does not cover damage by improper use, lighting or use with extreme over-voltage.
Furthermore, the warranty does not cover components or equipment from other persons than those authorized by the manufacturer as service station, when the equipment has been disassembled, changed or repaired by unauthorized personnel.

1.6 Customer Service

For technical information contact our customer service – „Address:“ on page 2.
Our employees are constantly working on new information and are interested in hearing from our users about their applications and possible improvements to our products.

2 Safety

This section gives an overview on all important safety aspects, optimum protection of personnel and safe and trouble-free operation.
Disregarding the instructions and hints in this manual and the safety precautions can lead to serious dangers.

2.1 Intended Use

This device is designed and constructed exclusively for the intended use.
The dedolight LED system serves exclusively the professional illumination of stages and film sets inside buildings and covered areas.
The intended use includes compliance with all information contained in these instructions.
Each use beyond the intended purposes is considered as misuse.

WARNING! **DANGER** through misuse!
Misuse of the dedolight LED system can lead to dangerous situations. Misuse includes in particular

- use of the system or its components outdoors / in rain
- using the light head without front lens
- using the light head with damaged cooling fins
- using the components without lighting stand or without proper mounting devices
- using the light head upside down
- use of the dedolight LED system by untrained personnel

Claims of any type due to damage caused by misuse are excluded.

2.2 Operator's responsibility

The operator is the person who operates the system for commercial or economic purposes, or instructs a third party to use or apply the equipment.

Obligations of the operator

The system is used in commercial applications. The operator of the system is legally responsible for workplace safety.
Apart from the safety instructions in this manual, all valid safety rules in the area of application are the responsibility of the operator.

In particular, the following applies:

- The user / operator must be aware of applicable health and safety regulations and the evaluation of additional hazards, which may be prevalent in the location of application. Suitable operating procedures have to be respected and enforced.
- During the entire service life of the system, the operator must check that operating procedures conform with actual validity of rules and regulations, and if necessary adapt the operating instructions accordingly.
- The operator bears responsibility for installation and operation. He has to regulate and specify operational procedures as well as maintenance and cleaning procedures.
- The operator has to ensure that all staff dealing with the system have read and understood these instructions. In addition, he must train and inform the staff in regular intervals about potential Dangers.
- The operator must provide the required protective equipment to the personnel.
  Furthermore, the operator is responsible for ensuring that the system is always in a technically perfect condition.

Therefore the following shall apply:

- The operator must ensure that the maintenance intervals described in this manual are respected.
- The operator has to make sure that all safety equipment is regularly checked for function and completeness.

Furthermore, the operator is responsible for ensuring that the system is always in technically perfect condition, therefore the following applies:

- The operator must ensure that the maintenance intervals described in these instructions are observed.
- The operator must have all safety devices checked regularly for functionality and completeness.

2.3 Personal requirements

2.3.1 Qualifications

WARNING! Risk of injury due to insufficient qualifications of the staff!
If unqualified personnel operates the system or stays in the DANGER zone of the system, serious risk of injury and considerable damage to property can be caused.

- All work to be carried out exclusively by qualified personnel.
- Unqualified personnel has to be kept away from DANGER zones.

This guide describes the qualifications listed below for the staff for various tasks and activities.

Electrician

Electricians, based on their technical training, knowledge and experience, and in the knowledge of pertinent standards and regulations, are capable to work on electrical systems and recognize possible hazards on their own, and to avoid such dangers.
The electrician is specifically trained for working in the relevant environment and has the knowledge of relevant standards and regulations.
In Germany the qualified electrician must meet the requirements of the Accident Prevention Regulation BGV A3 and fulfill the requirements (e.g. Master electrician). In other countries, similar rules apply.

Professionals

Skilled personnel is able to carry out the tasks assigned due to their technical training, knowledge and experience, as well as knowledge of pertinent regulations, to recognize and avoid possible hazards independently.

The instructed person

The trained person operates according to the instructions of the operator and has been informed about the tasks and potential dangers of an adequate conduct.
As authorized personnel only those are permitted who can be expected to work reliably. Persons, whose reactivity may be influenced by drugs, alcohol or medication, are not permitted.

In selecting suitable personnel, the valid rules and regulations of the specific location regarding age and professional experience have to be respected.

2.3.2 Unauthorized personal

WARNING!
DANGER to life for unauthorized personnel by Dangers in the work zones. Unauthorized personnel, not qualified according to the described demands will not know particular Dangers in the particular work zone, therefore, for unauthorized personnel there is DANGER of severe injury or death.

- Keep unauthorized persons away from the DANGER in the working area.
- When in doubt, address people and remove them from the DANGER or work zones.
- Interrupt work as long as unauthorized persons remain in DANGER zones or work areas.

2.3.3 Instructions

Personnel must be instructed by the operator regularly. For better tracking the implementation of the training must be logged.

Date	Name	Type of instruction	Instructed by	Signature

2.4 Protective equipment for personal

Personnel must wear protective equipment to protect against hazards for safety and health at work.
The protective equipment, explained in the following chapters of this manual, has to be applied before commencement of work. Particular requirements for personnel protection in certain work areas have to be respected.

Description of protective equipment

Heat resistant gloves with arm protection. Such gloves are designed to protect hands and forearms against heat upon contact with high-temperature components.

2.5 Basic risks

The following section describes residual risks, determined on the basis of risk assessment, in order to reduce health hazards and to avoid dangerous situations.

The safety instructions listed here and in further chapters of this manual have to be respected.

2.5.1 General hazards in the workplace

Dirt and scattered objects

WARNING! Risk by items falling down or dirt and debris lying around
Dirt and debris may cause slipping and stumbling, and result in injuries.

- Always keep work area clean.
- Remove objects, no longer required for the work.
- Keep ground clean
- Unavoidable tripping hazards have to be identified with yellow-black marking tape

2.5.2 Hazards caused by electrical energy

Electrical current

DANGER! **DANGER** to life may arise from contact with life parts. Grave DANGER to life by electrocution.
Damage to the insulation of cables or individual components can be life-threatening.

- Never use lighting cables or power cords for pulling or carrying equipment.
- Never pinch or squeeze lighting cables or power cables, or pull them over sharp edges.
- In case the cable insulation is damaged or electrical components are damaged, immediately unplug power supply and initiate repair.
- If the external flexible cords of this luminaire are damaged, they shall be replaced by special cords exclusively available from the manufacturer or his service agent.
- The light source (LED module) contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- Work on electrical components must be executed exclusively by qualified electricians.
- Before commencing any work on electrical components, before installation, maintenance, cleaning or repair work, the system has to be unplugged / separated from power supply.
- Never bridge fuses or put them out of action. Changing fuses respect correct amperage indication.
- Keep moisture away from electrical live parts. Otherwise short circuits may occur.
- **CAUTION**, risk of electric shock

2.5.3 Risks from mechanical parts

Sharp edges and pointed corners

CAUTION! Risk of injury from sharp edges and pointed corners.
Sharp edges and pointed corners can cause skin abrasions and cuts.

- Exercise special CAUTION when working near sharp edges and pointed corners.
- If in doubt, wear protective gloves.

2.5.4 Hazards due to high temperatures

Hot surfaces

WARNING! Risk of injury from hot surfaces! Surfaces of components of the system can heat up significantly during operation. Skin contact with hot surfaces can cause skin burns.

- During operation and to operate the system, wear protective gloves.
- Prior to performing any maintenance, repair or installation work, or assembly, make sure that all surfaces have cooled down to ambient temperatures.

2.5.5 Fire hazard

Fire hazard

WARNING! The light head can heat up during operation.
Using light heads with halogen or metal halide light sources, materials located in the beam direction can possibly heat up to ignition temperature and serious injury, even death can occur.
For focusing LED lights the forward emitted heat is very low, and these Dangers are minimal in front or within the beam of the light head.

- Never operate light head in close proximity to combustible materials.
- Comply with minimum distance of 0.5 m from combustible materials.
- Never operate the light head without lighting stand or suitable suspension.
- If cooling ribs on the rear side of the light head are damaged, do not put light head into operation.
- Do not operate the system when cooling fins are missing.
- Never place objects on the light heads or the electronic ballasts.
- Never operate the system in aggressive or explosive media.

Fire protection

WARNING! Injuries can occur if fire-extinguishing equipment is limited or used improperly.
If, in case of fire, the fire extinguisher is not operational or not suitable for specific fire classification, serious injuries, even death, can occur as well as property damage.

- Make sure that fire extinguishers, suitable for Class A, are available.
- Fire extinguishers have to be checked every two years.
- Fire extinguishers have to be refilled after each actuation.
- Exclusively use fire-extinguishing propellants and spare parts which are specified on the fire extinguisher.
- When using fire extinguishers, follow operating instructions on the fire extinguisher.
- In case of use, respect range for functional temperature.

2.6 Behavior in case of fire outbreak or accidents

Preventive measures

- Always be prepared for accidents and fires.
- Keep in near reach first aid equipment (First Aid Kit, blankets, etc.) and store fire extinguishers functional and nearby.
- Make personnel familiar with accident reporting, first aid and rescue facilities.
- Keep access routes clear for emergency vehicles.

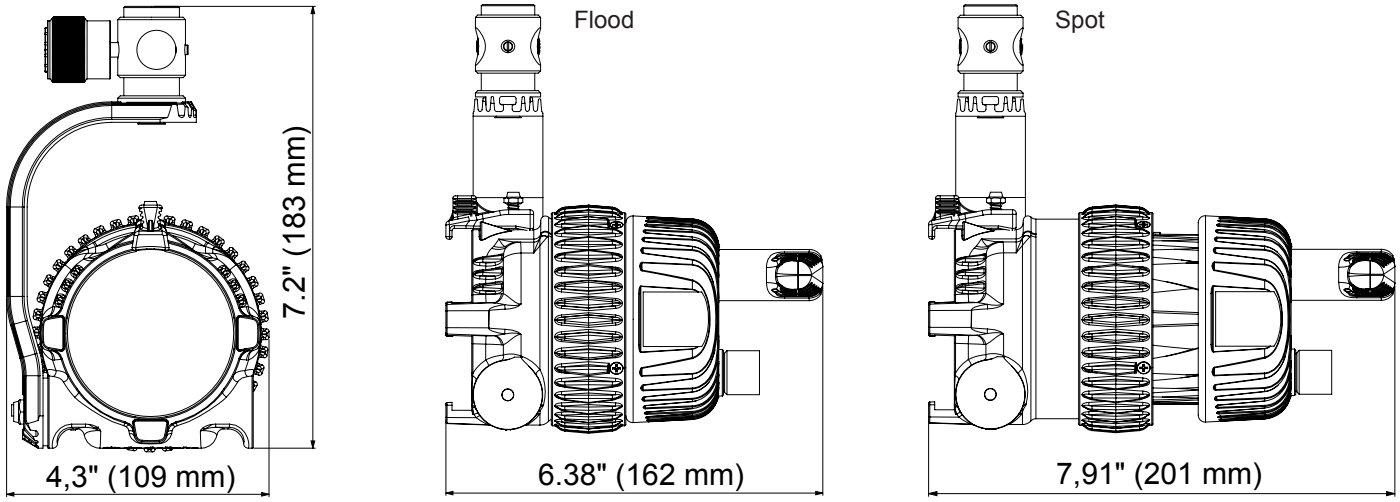
Measures in case of accidents

- Remove people from DANGER zone
- Initiate first aid measures
- Alert emergency services
- Inform managers on site

3 Technical specifications and dimensions

Dimensions

DLED4-D / DLED4-T / DLED4-BI



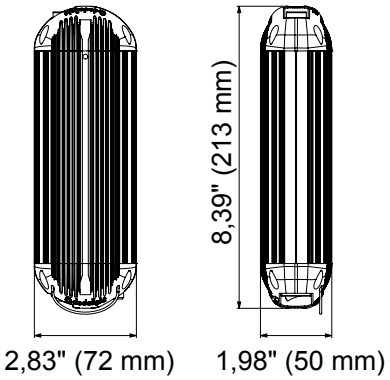
Technical Specifications

Input DC	48 V / 40 VA / 1 A / 40 W
Dimming	100 - 0 %
Classification	IP 20 , Protection Class 3
Connection	XLR 5 Pin
Weight	1300 g
Mesurements	see drawings
Focus	60-4° (1:20)
Focus Kontrolle	1 turn of the ring
UV	no UV radiation
Operating Position	any
Cooling	passive cooling – no fan – no noise
Accessory holder	76 mm diameter
Stand Fitting	5/8 inch, 16 mm baby receptacle for baby stud Optionally usable as 28 mm stud when screw / button is removed. inside: 16 mm ; outside: 28 mm (when holding screw removed)

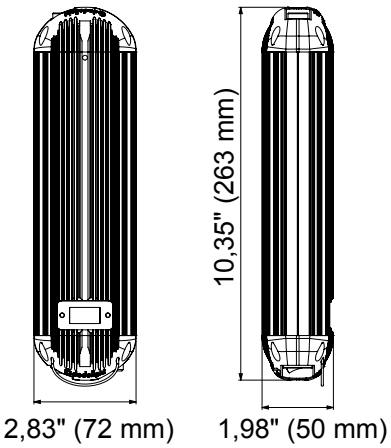
Dimensions

DT4
DT4-BI
DT4-DMX
DT4-BI-DMX
DT4-BAT
DT4-BI-BAT

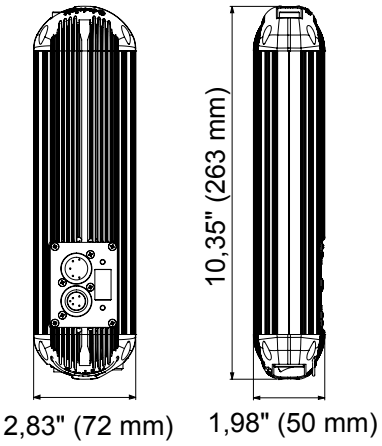
DT4



DT4-BI

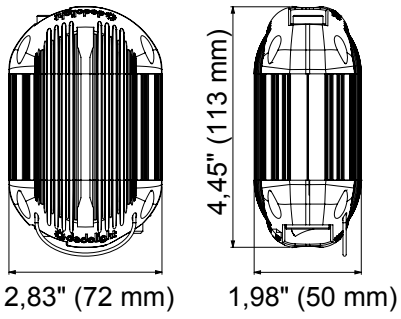


DT4-DMX

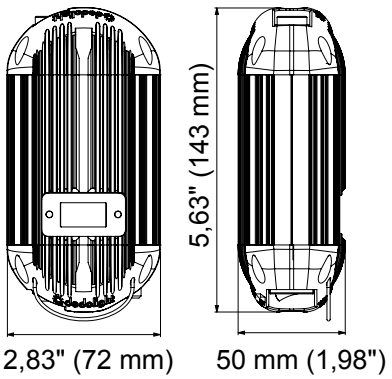


DT4-BI

DT4-BAT-AB / DT4-BAT-XLR



DT4-BI-BAT-AB/DT4-BI-BAT-XLR



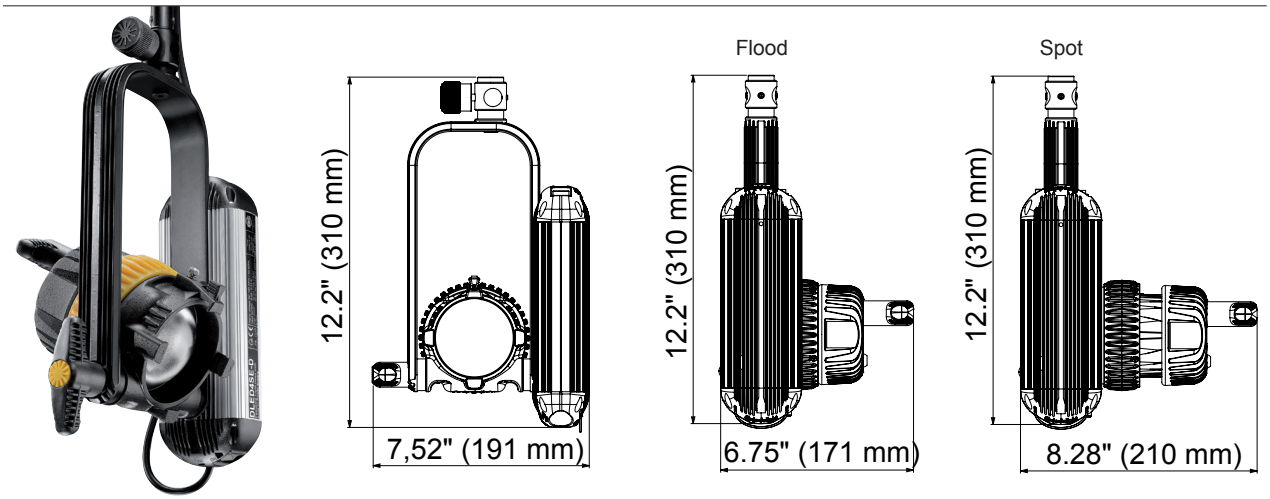
Technical Specifications

Input AC	90-264 V / 50 VA / 0,2-0,21 A / 47 W
Input DC (Battery Version)	10,2-18 V / 50 VA / 4,6-2,6 A / 47 W
Output	48 V / 40 W
Dimming	100 - 5 %
Protection Class	IP 40 , Protection Class 1
Cable Length	AC 2,5 m / DC 1,4 m XLR 5 pin
Weight	1000 g (DT4-E); 1300 g (DT4-BI-DMX-E)
Mesurements	see drawings

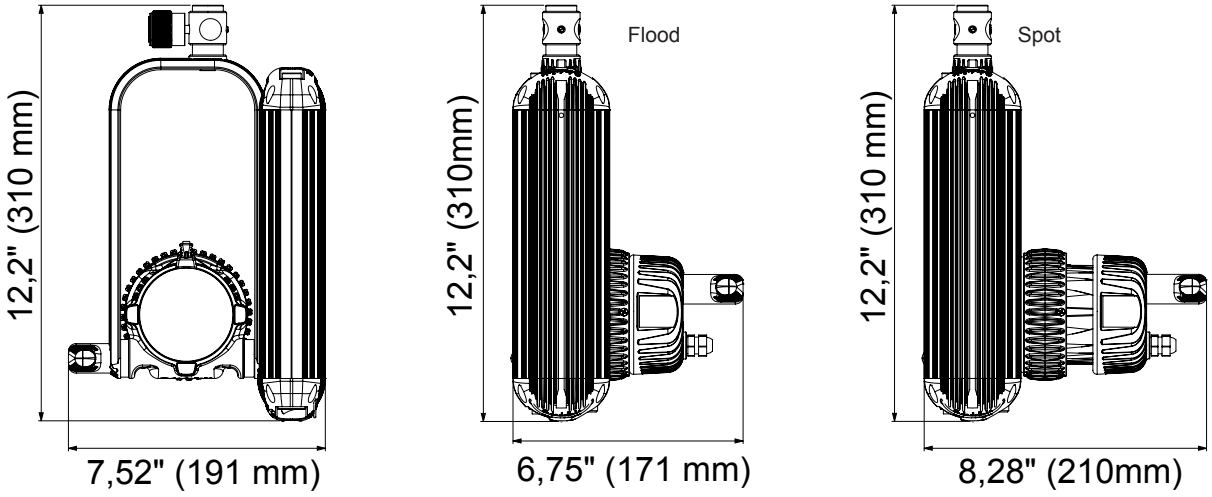
3.1 Other variations of DLED4 light heads

For studio use (SE - Studio Edition). With power supply attached to yoke. Versions with manual control or DMX control available.

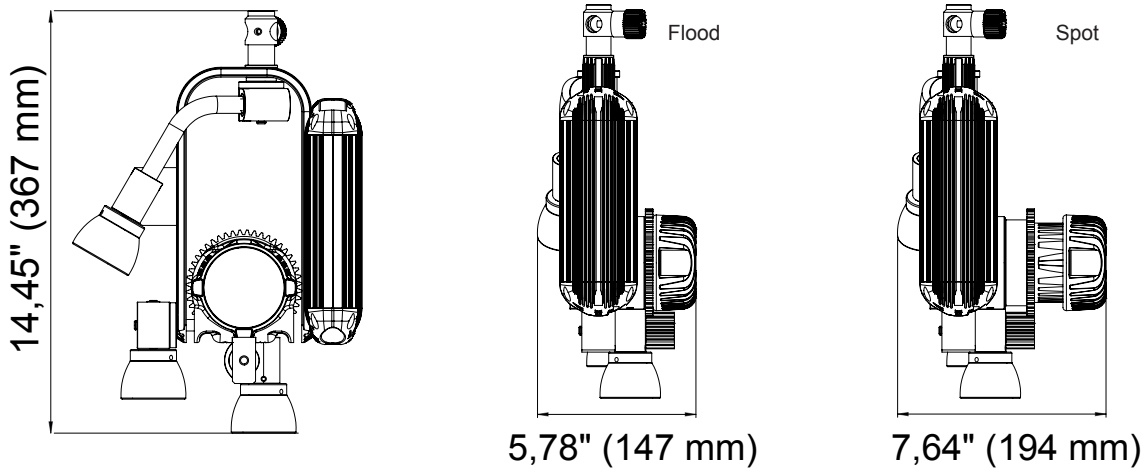
DLED4SE



DLED4SE-BI



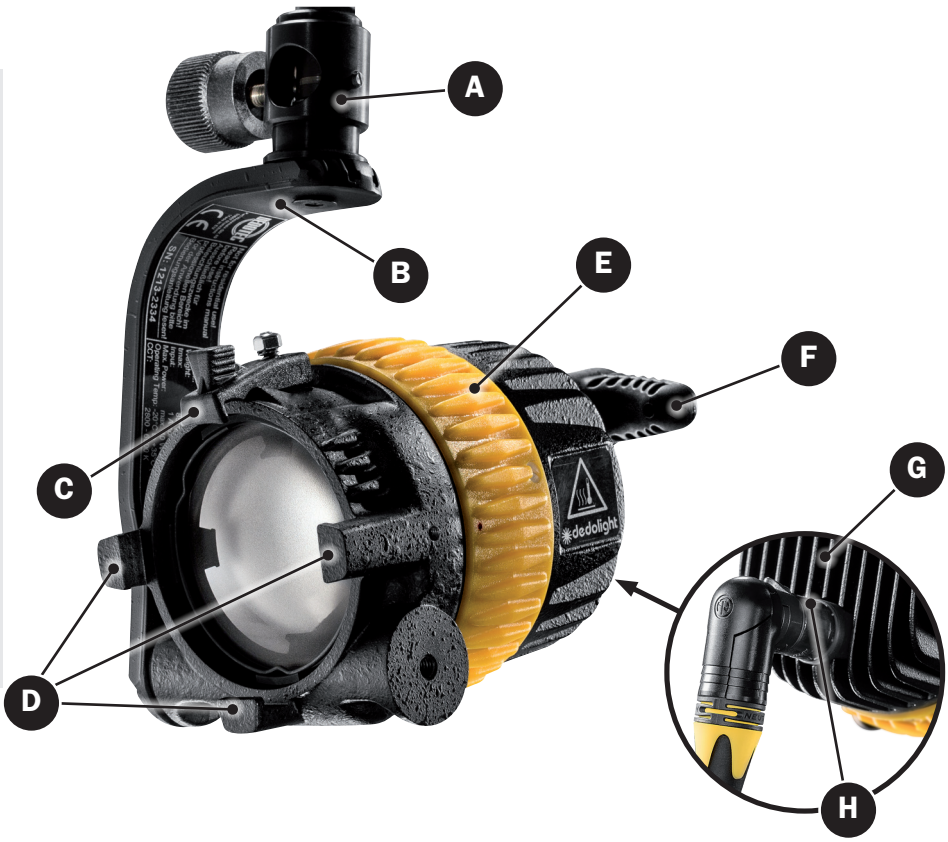
DLED4SE for Pole-Operation



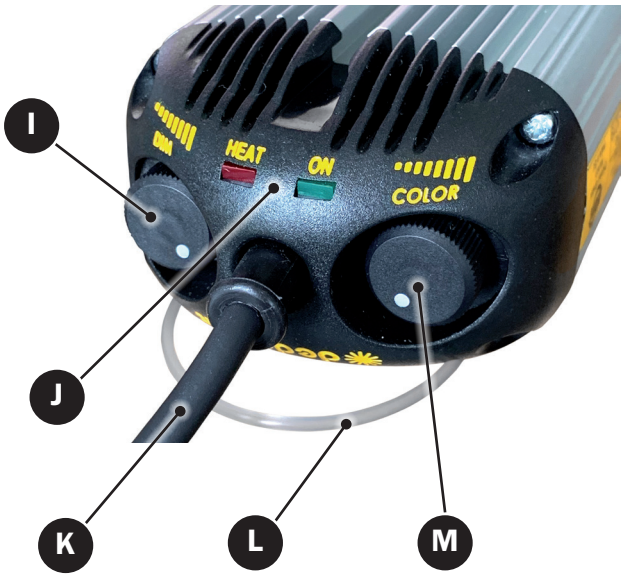
4 Operating elements

Light Head

- **A** Tripod adapter for stands with 16 mm (5/8“) studs
- **B** Swiveling Light Head Yoke
- **C** Swiveling latch to hold front-end accessories.
- **D** 3 fixed holders / receptacles for front-end accessories, like barn door, imager / projection attachment, filters and light shield ring.
- **E** Focus Ring
- **F** Handle
- **G** Heat Sink (do not cover)
- **H** XLR input from power supply



Electronic Transformer DT

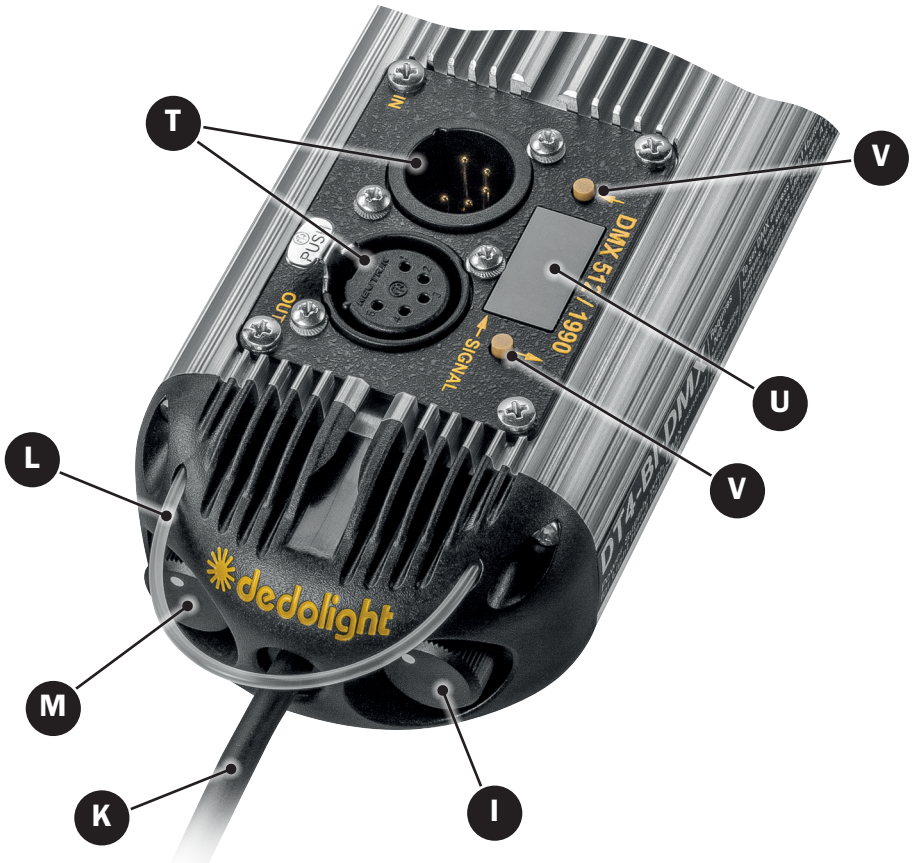


- **I** Brightness controls [DIM]
- **I** Control LED‘s
- **K** Cable to light head [DLED4-T/D, DLED4-BI]
- **L** Hanging loop for mounting on tripod
- **M** Color controls [Bicolor version only]
- **N** Fuse holder
- **O** Power cord
- **P** Power switch

Electronic Transformer DT-BAT (Battery Version)

- **I** Brightness controls [DIM]
- **K** Cable to light head DLED4-D/T, DLED4-BI
- **L** Loop for hanging power supply on lighting stand
- **M** Color controls [Bicolor version only]
- **P** Power Switch
- **Q** Battery cable
- **R** Display for Dimming and Color Temperature [Bicolor version only]
- **S** Battery connector

Electronic Transformer with DMX control



- **I** Brightness controls [DIM]
- **K** Cable to light head DLED4-D/T, DLED4-BI
- **L** Loop for hanging power supply on lighting stand
- **M** Color controls [Bicolor version only]
- **T** DMX connector In and Out
- **U** Display for DMX-address, Kelvin and dimming e.g.: C32=3200K D99=99% dimming
- **V** Buttons to change the values

5 Handling Light Head

Mounting the Light Head

The light head may be attached to any stand or mounting fixture which utilizes a standard 5/8“ (16mm) stud **A**.
The stand fitting accepts these studs in both vertical and horizontal positions.
The DLED4 series light heads may be rotated 360° around the axis of the stand fitting. Several spring washers and friction discs provide an even friction to the stand fitting.
Should this friction become too low, the self locking nut may be tightened with a 10 mm wrench.

Connecting Power Supply

The DLED4 (D, T and BI) is equipped with a 5-pin male XLR connector located on the back of the light head. Both AC and DC power supplies may be connected to this connector. With the SE-Series (Studio Edition) the power supply is built-in. For more detailed information please see chapter „6 Handling Power Supplies“ on page 19.

Dimming

The DLED4 fixture may be dimmed by the dimmer knob located on the power supply.
More detailed description in chapter „6 Handling Power Supplies“ on page 19.

Focusing

The dedolight DLED4 LED light fixture offers a great variation of beam angle and intensity - 60° to 4° (1:20).
The dual lens, aspherics^2 optical system offers even light distribution throughout the entire focusing range.
The beam angle is continuously adjustable by turning the yellow ring on the light head.
You will notice that when moving to the wide angle/flood position, the entire light head becomes shorter, while turning the yellow ring **E** in the opposite direction (spot), makes it longer. A narrower beam is created towards the spot position. In doing so, the light head grows in length exposing the extra cooling devices which are otherwise hidden inside the light head.

Heat

Although it is commonly believed that LED light sources produce no heat, this is not true. On the contrary, LED light sources still turn about 85% of the energy consumed into heat. Therefore, cooling devices are necessary.
With prolonged use, the cooling ribs, visible at the rear of the light head, will become warm. A temperature sensor will turn the light off in the unlikely case of overheating. This sensor will automatically reset once the temperature returns to normal.
A handle **F** is provided on the back of the head allowing adjustments to be made along with the yellow focusing ring **E** to adjust the angle of the beam.

Accessories for the Light Head

A variety of accessories may be attached to the accessory holder. Three of those **D** are in a fixed position while the fourth **C** serves to lock the accessories in place.
For example:

- Barn doors (e.g. eight leaf)
- Scrims
- Light shield ring
- Color conversion filters
- ND grad filter
- DP1.2 imager/projection attachment for gobo projections or iris
- DP2.2 imager/projection attachment with built in framing shutter blades dedolight DP1, DP2 and DP3 imager/projection attachments may also be used but will not provide perfectly smooth and even light distribution.

6 Handling Power Supplies

For AC ballasts:

When power supply is switched P off, connect the ballast and the light head with 5-pin XLR connector J. Then connect the input cable O of the ballast to the AC mains.
Switch P on the ballast. The signal LED J „ON“ should light up in green. (If the LED is flashing or no light appears, that indicates damage.)

For Battery ballasts:

When power supply is switched P off, connect the ballast and the light head with the cable K with the 5-pin XLR connector H. Then connect the input cable Q to the ballast S and to the battery or a car cigarette lighter output. The signal LED J „ON“ should light up in green. This indicates the battery is connected and charged.
Switch P on the ballast. The signal LED „ON“ should turn off.

! NOTE that in Battery ballasts, this LED‘ s function is inverted. The LED does not light while the light head is operating. When the battery is exhausted, the ballast switches off automatically and the green LED starts blinking in short intervals.
DT4 has a rotary knob to adjust intensity (dimming) I.
DT4-BI, bi-color power supply, has 2 rotary knobs. One for dimming I, another one for adjusting the color temperature M from 2700K to 6500K.

For devices with display:

When operating dimming knob I in manual mode, display shows ‚d‘ from d00 to d99 (d00 to dff in some versions).
When operating knob for color temperature M regulation, display shows equivalent color temperature, starting with 27 (for 2700K) all the way to 65 (for 6500K).
For devices with DMX function:
To set DMX address push the buttons V at the left (↓) and right (↑) sides of the display U simultaneously, release, then select address ‚up‘ with the right and ‚down‘ with the left button. Auto store after 10 sec. A dot in display indicates a correct DMX signal. For manual control set the address below channel 1. Use the rotary knobs to adjust color or dimming levels.

Thermal protection/missing lamp head:

On the ballast there is a signal LED J „heat“. In case of overheating of the light head, the ballast automatically switches off and the LED „heat“ lights up in red. After cooling down, the ballast recovers and continues its normal operation. The „heat“ LED lights up in red also in case of damage in the output cable or missing lamp head. After recovering the connection, the ballast continues its normal operation.

Mismatch conditions:

Should a mistake arise, where the DLED4 mono-color light head D or T is connected with DT4-BI, bi-color power supply, both buttons influence brightness.
If you connect the DLED bi-color light head with the mono-color DT4 power supply, only one of the two color temperatures will be active and cannot be changed, but can be dimmed.
No damage will occur to light head or power supply.

7 Maintenance

Isolate electrically before re-lamping.
CAUTION - Hot LED module

Certainly, the LED module is not meant to be replaced by the user, and standard provides for its replacement to be done by the manufacturer, his service representative or similar qualified person.

You may not bother placing the aforementioned labeling, if the operating instructions explicitly state that the LED module is to be replaced only by the manufacturer or his service representative.

Always ensure good handling of the equipment and especially the cables. Cables are always a weak point and the first to suffer if they are not handled properly.

In case of malfunction, please contact your dealer or an authorized service center.

8 Detailed description for DMX usage

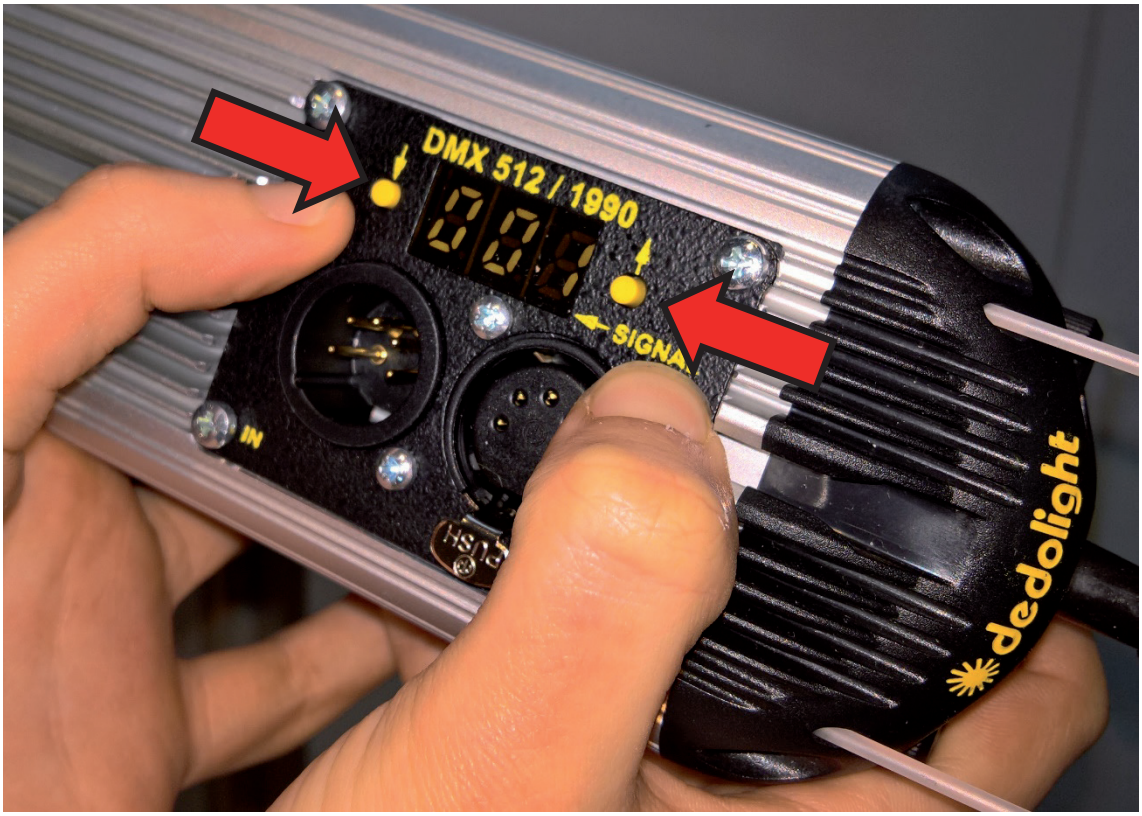
In general our DMX ballasts are multifunctional.
Additionally to the DMX control unit-usage one can also control the DMX power supply manually.
DMX-Terminator is built in and activated when DMX-out is not connected.
Mono color DMX ballast uses 1 DMX address, bicolor DMX ballast uses 2 DMX addresses (color & intensity).
16 Bit or 8/16 Bit switchable ballast must be ordered. Standard DMX ballast comes with 8 Bit only.

How to operate DT(x) DMX ballast:

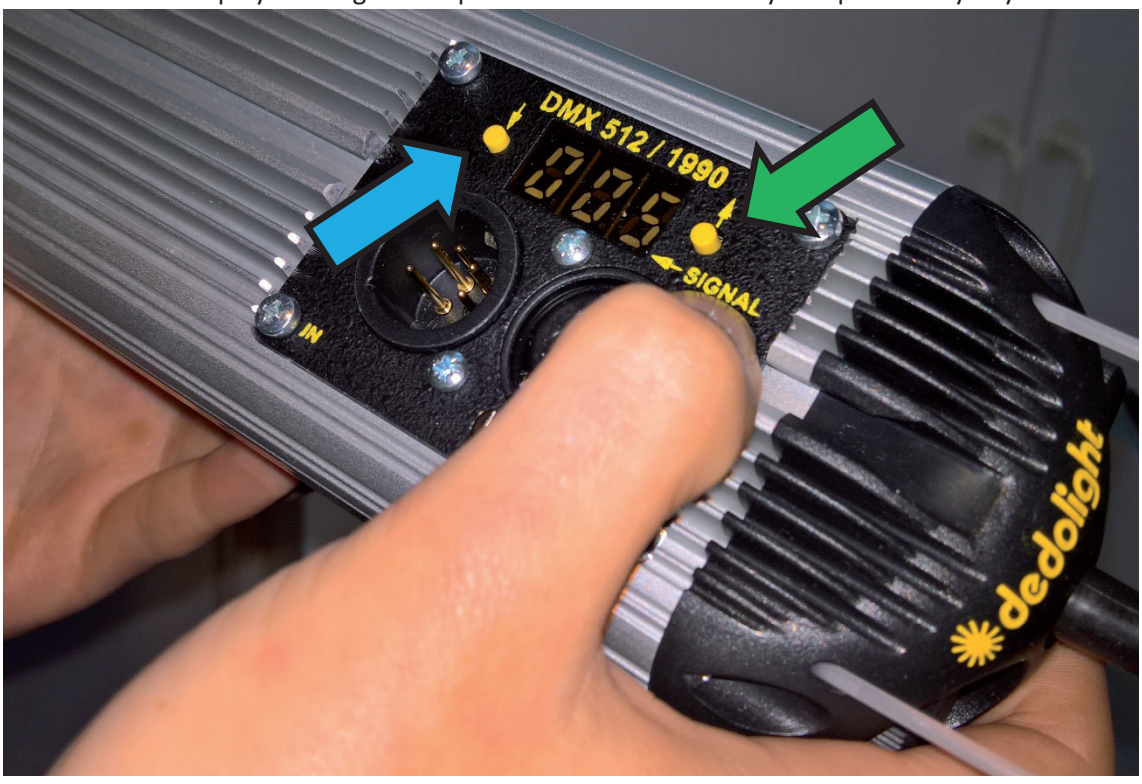
1) Switch on the DMX ballast with the on-off switch positioned on the bottom black cap of the ballast.

2) Change DMX address (DMX mode):

Push both yellow buttons next to the display at the same time.
Numbers in display will flash for a couple of seconds.

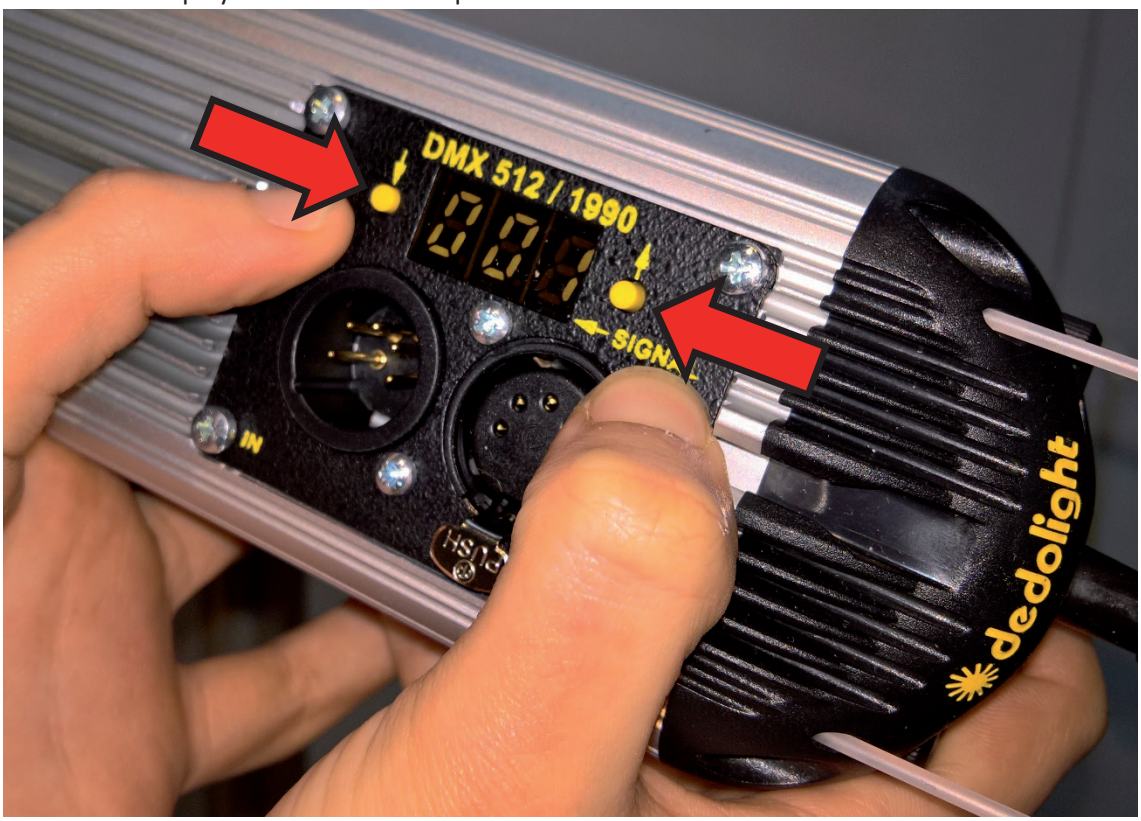


While flashing, you may change the DMX address by pushing the yellow UP or DOWN button. After a couple of seconds the display flashing will stop and the DMX ballast may be operated by any DMX control unit.



3) MANUAL mode (no DMX functionality):

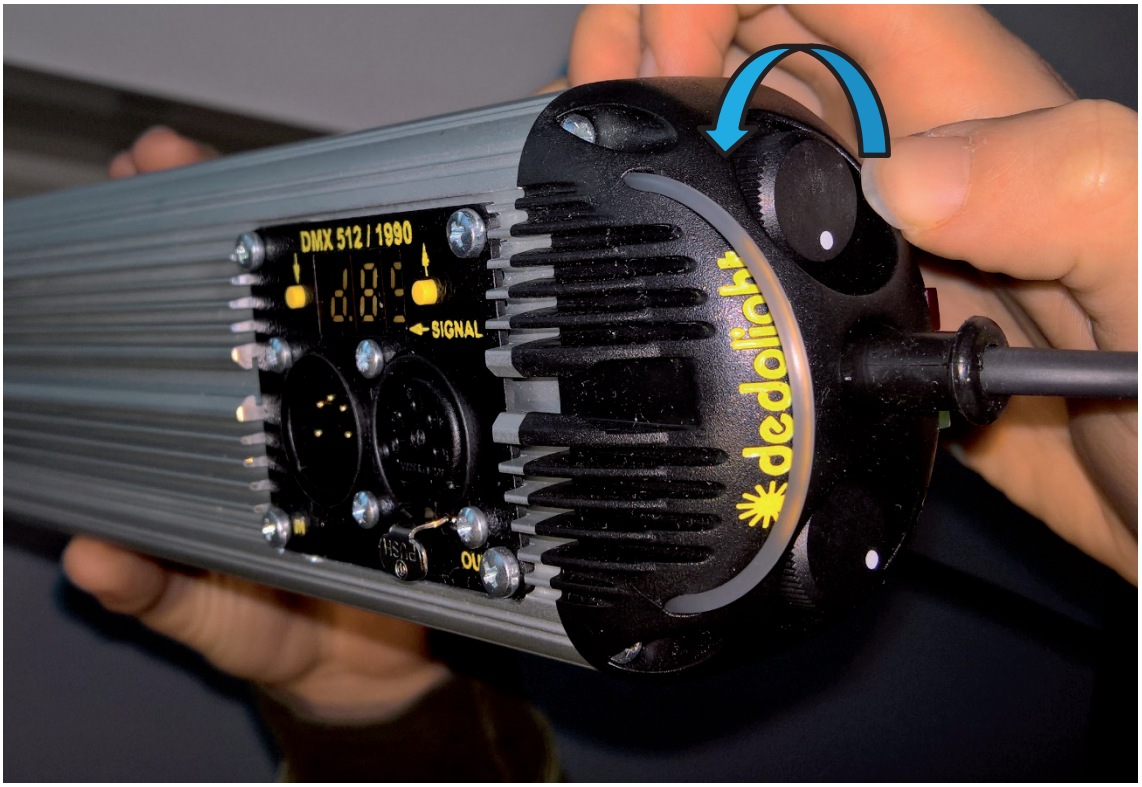
Push both yellow buttons next to the display at the same time.
Numbers in display will flash for a couple of seconds.



While flashing, push the yellow DOWN button until you are below “number 001”.
Now manual mode is active and you see a little “d” or “c” in the beginning of the display followed by a dot and a two digit number.

“d” = dimming between 0->99 %
“c” = color temperature between “27” (2700 Kelvin) and “67” (6700 Kelvin) – bicolor only

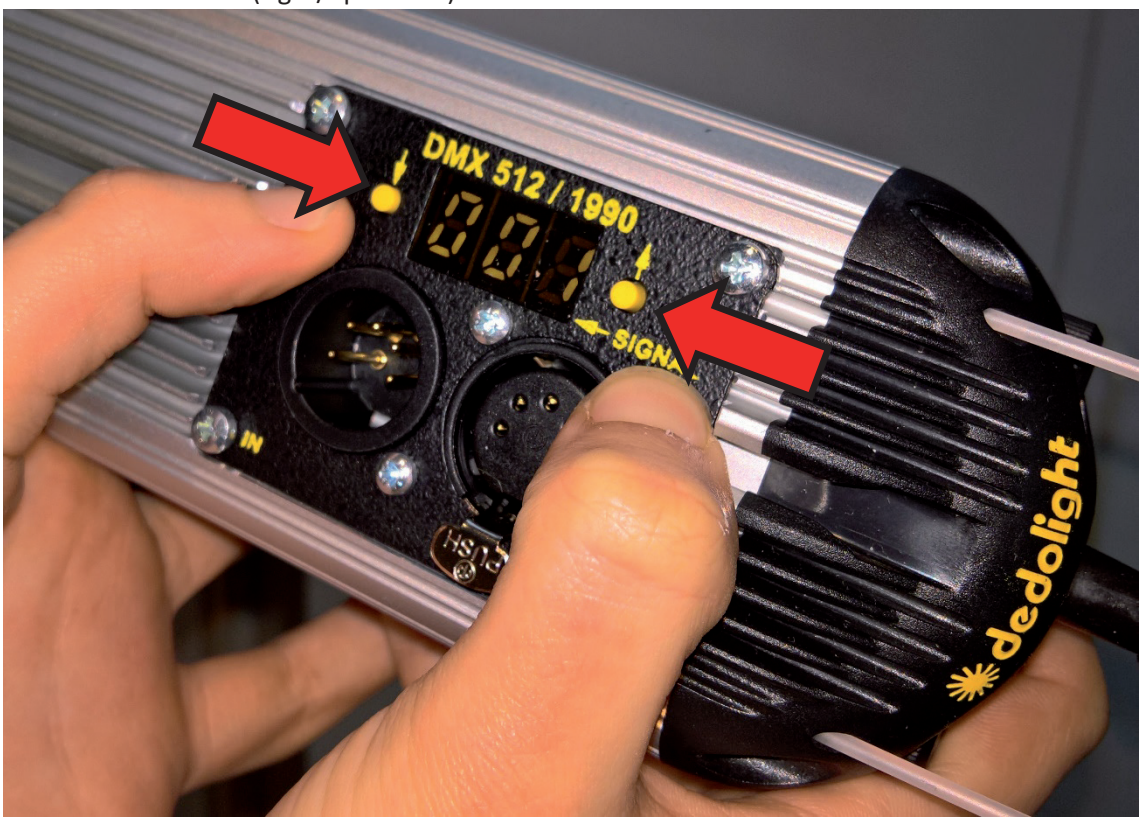
When manual mode is selected, both knobs on the top black cap are active.
Turning the DIMMING-knob, you can adjust the Intensity between 0% and 99%. This will be displayed as numbers “d.00” up to “d.99”



3a) Bicolor ballasts only:

Turning the COLOR knob will let you control the color temperature between “c.27” (2700 Kelvin) and “c.67” (6700 Kelvin).

To exit the manual mode, you will have to push both yellow buttons simultaneously.
The display will start flashing again.
A single push of either the up or down button will bring you back to DMX address 512 (left/down Button) or DMX address 001 (right/up button).



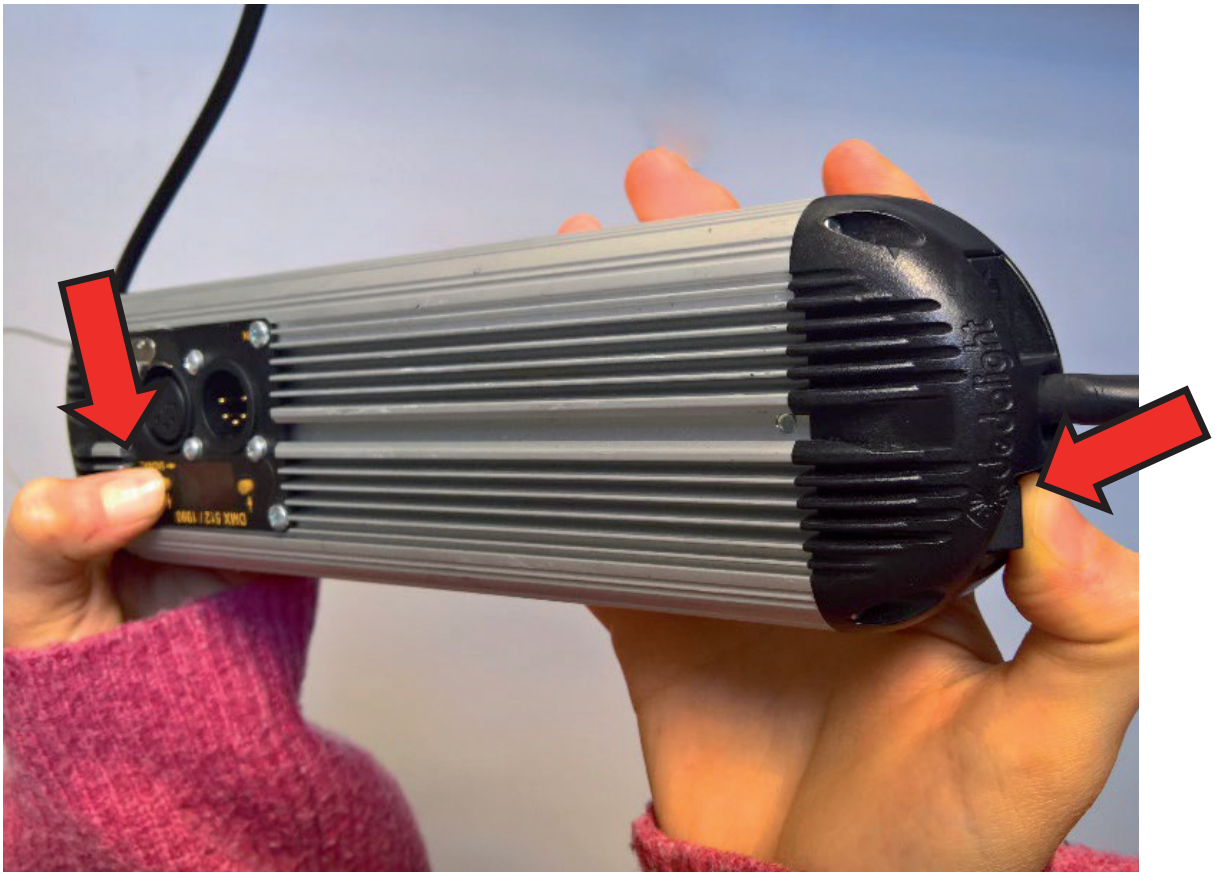
If ballast is switched off, all the settings (color, intensity, DMX-address) are stored.

This manual is valid for following dedolight ballasts:

DT4(-BI)-DMX
DT7(-BI)-DMX*
DT9(-BI)-DMX*
DT10(-BI)*
DT20(-BI)*
DT30*
DT40(-BI)*
DLED12-D/-BI-DMX*

*) 8 Bit only

4) **To change between 8 Bit and 16 Bit operation**, press the ↑ - button (up arrow) and hold it, simultaneously press the ON switch. The display shows a flashing “d 8” or “d 16” – for 8 Bit or 16 Bit modes respectively. Mode options can be changed by pressing the ↓ - button (down arrow) successively, while flashing.



5 sec time after the last change done, the display stops flashing, condition is memorized and the device enters into a normal DMX mode.
Resolution indications can also be seen on the “ready” LED,
which has a green light on a 16 Bit, and a yellow light on an 8 Bit mode.