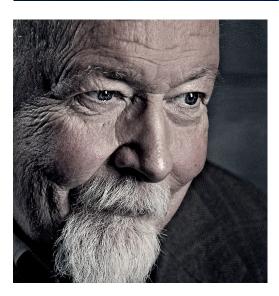


PRECISION LIGHTING INSTRUMENTS

FORESSIC 11 SERIES

English 02/20

INTORDUCTION



When the first dedolights went to market in 1984 they quickly became the workhose for film and documentary cameraman. Over the years broadcasters specified sets for their travelling teams as the reference tool due to its immanent quality and features.

For many years our founder Dedo Weigert worked as a Director of Photography and producer on film projects all over the world. Not content with the ordinary tools of his trade, he constantly sought technical innovations in lighting, leading to over 30 international patents.

The design of studio lighting has long been dominated by Fresnel lights, a technology based on principles dating back to the beginning of the twentieth century. Inspired by his experience in film, Dedo Weigert built on this traditional concept with a revolutionary new optical system, increasing light output, efficiency and improving control. While traditional studio lights achieve a focusing range of 1:3 (maximum 1:6), dedolight optical systems offer 1:25 (up to 1:53).

dedolight's award-winning systems offer a perfectly clean beam, without stray light, allowing for maximum creative precision and light and shadow control. In film, broadcast and photography, dedolights have become part of the standard arsenal of the world's most discerning professionals.

From the smallest productions to Hollywood blockbusters, dedolights are the first (and often the only) choice of lighting when demanding the highest possible precision and control, for example in special effects (as seen in Harry Potter, Lord of the Rings, Armageddon, and many more films). dedolight has a long history of award-winning lighting systems, winning two Oscars in 1990 and 2003, an Emmy in 2003 and Cinec awards in 2002 and 2010.



Academy of Motion Picture Arts & Sciences Technical Achievement & Engineering Awards



Academy of Television Arts & Sciences – Emmy



Cinec Award 2002/2010/2014

Scientist, investigators and crimeforces have used modified dedolight systems for over twenty years. Recognising the unique demands of forensic light sources, the dedolight research and development team designed the latest series of dedolight precision lighting systems especially for these applications.

Today the product portfolio of forencis dedolights covers a broad range of intensities and spectras. Wether you compile your own system out of the components or choose one of the sets, develoried with help of Dr. Martin Schulz from the Institute of Legale Medicine of the Ludwig-Maximilians-University in Munich.

All dedolight focusing LED Systems have unique features, which include:

- Extrem focusing range from typ. 60° flood to 5° superspot
- The glas lenses define a totyally even lightbeam with a distinct hard single-shadow
- Double asperics optics optimize the light efficancy
- All LED Systems are dimmable down to 4%
- Easy battery operation available

All of the dedolight LED Systems are offered in 3 variants for the visible spectrum:

- Film/Broadcast daylight 5600° CRI Ra 96 TLCI 96
- Film/Broadcast tungsten 3200K CRI Ra 98 TLCI 97
- Colortunable extended Bi-Color 6500-2700K, CRI Ra 96/98, TLCI 96/97

Our standard Forensic LED arrays consist of:

- 960 nm NIR
- 📕 860 nm IR
- tunable IR 860-960 nm
- tunable blue 450-470 nm
- 400 nm violet
- 365 nm UV
- tunable UV 365-400 nm
 violet + flip down short pass filter
- turnable VIS 2700K-6500
 - flip down polarizing filter

For art history application we added for custom fixtures:

630 nm red

- 450 nm/520 nm tunable royal blue/green
- 520 nm green
- 450 nm royal blue
- 450 nm/470 nm tunable royal blue/light blue
- 1050 IR

FORENSIK KIT SMALL 10W

KMULTI4 Multi-Spectrum 4-Light LED Kit

Together with the Institute of Legal Medicine at LMU Munich University the team of Dedo Weigert Film GmbH optimized there special range of equipment to the needs of crime investigation. These dedolight Forensic Kits enable the specialist a more precise and faster forensic inspection of crime scenes, evidence and ingured patterns.

This all in one sturdy case includes:

- focusing Bicolor 2700K-6500 visible spectra light with flip-down polarizing filter, to reduce surface reflections in combination with a crossed polarizing filter on your camera
- focusing Bi-Infrared 860 nm/960 nm
- focusing Bi-Ultraviolet/violet 365 nm/400 nm with flip-down short pass filter for 365 nm
- focusing Bi-Royal blue/light blue 450 nm/470 nm
- AC Powersupply
- DC Batteries
- clear UV-protection eyeglass
- yellow, orange and red filter eyeglasses to simulate the applicable camera filters to the investigators eyes.
- several mounting options: Hot-Shoe Cameramount, 1/4" cameramount, Handle, Table Stand, Tripod



KMULTI4

]]]	DLOBML-BI-IR DLOBML-BI-UV DLOBML-BI-POL	Ledzilla focusable onboard IR-A LED light, adjustable between 860nm and 960nm wavelength. 6-18V DC input. Ledzilla focusable onboard UV LED light, adjustable between 365nm and 400nm wavelength. 6-18V DC input. Ledzilla bicolor, focusable onboard LED light with flip-down POL filter. 6-18V DC input.
1	DLOBML-BI-POL DLOBML-BI-BB	Ledzilla bicoloi, locusable onboard royal blue/light blue LED light, adjustable between 450/470nm wavelength. 6-18V DC input.
4	DLOBML-BS	7.2 V Sony battery shoe for NP-F
1	DGL-Y	Colored polycarbonate eyeglasses, yellow (415-450nm)
1	DGL-O	Colored polycarbonate eyeglasses, orange (320-550nm)
1	DGL-R	Colored polycarbonate eyeglasses, red (450-570nm)
1	DGL-UV	UV protection eyeglasses
2	DLBSA-TS	Table stand: 9.5 x 6.3 x 1.2 cm (3.7 x 2.5 x 0.5") with shoe for light head
1	DLBSA-HAND	Shoe adapter with handle
2	DLCH-NPF	Charger for NP-F battery, input 100 - 240 V AC, please specify power connector (A / E / G / J / U)
4	DLB-NPF550	7.4 V Li-lon battery 14.8 Wh (2000 mAh)
1	DSTFX40	Flexible stand extension, 40cm long
2	DSTM	dedolight stand, micro
2	DLBSA-JSF	16mm receptacle (female) to hot-shoe mount adapter (female).
1	CLAMP1	dedolight clamp
1	DCHDMU4	Heavy duty transport case for 4-Light Multi-Spectrum kit

Size: 56 x 43 x 22 cm (21.7 x 16.9 x 8.5") Weight 8,6 kg (19lb)

FORENSIK KIT LARGE 80W

Multi-Spectrum 4-Light LED Kit



dedolight focusable bicolor light, adjustable between 2700 and 6500K

dedolight focusable IR-A LED light, adjustable between 860nm and 960nm wavelength

dedolight focusable UV LED light, adjustable between 365nm and 400nm wavelength

dedolight focusable royal blue / light blue LED light, adjustable between 450nm and 470nm wavelength

KMULTI4L

- DLED7-BI
- DLED7-BI-IR
- DLED7-BI-UV
- DLED7-BI-BB
- 2 **DT7-BI-E**
- 2 **DLPUV3**
- 2 DST1 DCHDW1
- dedolight stands
 - Hard case with handle and wheels

Power supply for DLED7 bicolor LED light heads

dedolight low pass UV filter for 365nm

Size: 57.9 x 46.5 x 29.7 cm (22.8 x 18.3 x 11.7") Weight 18 kg (39.7 lbs)



FORENSIK SIENCE / LEGAL MEDICINE

The dedolight forensic kits combine the unique features of all dedolight focusing LED systems with some new options.

In contrast to other Forensic Light sources, within the bicolor dedolight two wavelength are reasonably combined in one lamp without any loss of power! The bicolor visible spectra light (VIS) sources allow the use of polarized light and, moreover, an adjustable color temperature.

This offers the possibility of a continuous light adjustment according to the respective surface in order to optimize the search and documentation of biological materials, which turned out to be very useful within the search and documentation of forensic evidence (e.g. gunshot residue, diluted / masked bloodstains, other body fluids, fibres, fingerprints, shoe and tire prints, hematoma, scratch and bite marks, scars etc.).

The following few examples may give an idea of the broad range of possible applications.

The bicolor VIS sources enable you to exam and document all visible evidence at optimal color temperature. Traces on shiny surfaces are sometimes difficult to see and / or to photograph because of the surface reflections. A combination of polarized light and polarizing camera filter can put things right.

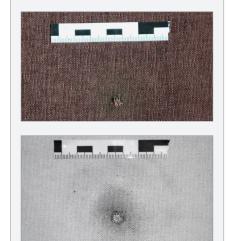


Masked Boodstains on a black leather coat, standard light/polarized light with optimized color temperature. Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich

The Bi-Near Infrared light sources offers the whole range of forensic Near Infrared applications with a control of contrast and / or depth of light penetration. The illustrated visualization of masked bloodstains, gunshot residue and shoe prints represents just a small sample of possible implementations.



Bloodstains on wool, standard light, optimized Near Infrared Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich



Penetration mark and gunshot residue on dark textile, standard light, optimized Near Infrared.

Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich



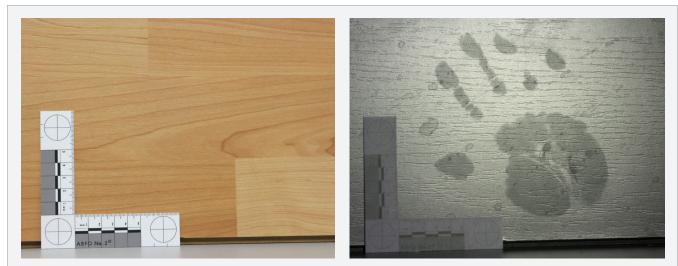
Footprint (dirt) on a grey cotton shirt, standard light, optimized Near Infrared. Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich

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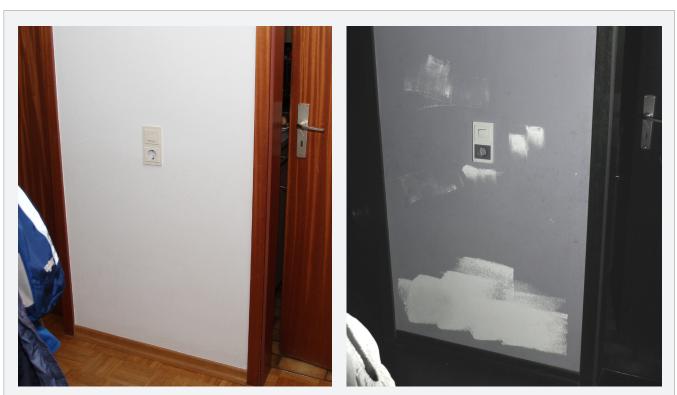
The Bi-Ultraviolet/violet light sources present a smart LED combination that can be used for many forensic purposes.

The 365 nm light can on the one hand be used for forensic reflective UV-photography (e.g. visualization of finger- / handprints or repaintings) as well as (in combination with the flip down filter) to create UV-fluorescence (e.g. body fluid and fiber examination).

The 400 nm light range can be quite useful for the visualization of diluted or thin layers of blood on light surfaces (e.g. parquet floor) and injured patterns (e.g. hematoma, scratch and bite marks), here a turndown towards 365 nm may be useful to enhance contrast.



Handprint on laminate, standard light, UV-reflection - Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich



Repaintings / overcoatings on wall, standard light, UV-reflection - Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich

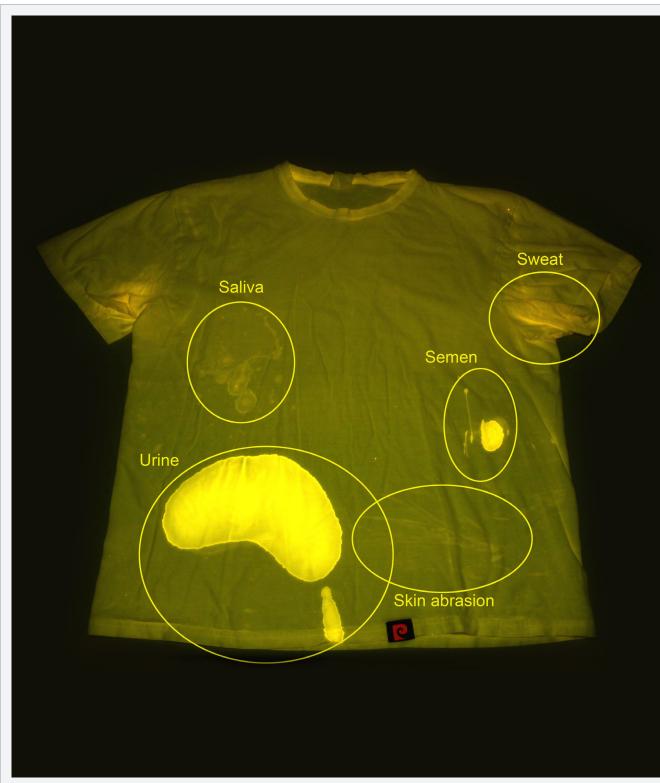


Bloodstain pattern on parquet floor, circa 400 nm. Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich



Bloodstain pattern on parquet floor, standard light. Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich

The bicolor royal blue / light blue devices turned out to be very suitable for the initiation of fluorescence of biological (e.g. body fluids, skin abrasion) and other fluorescent materials. The continuous light adjustment enables you to optimize the light output according to the respective evidence surface in order to create best contrast / visibility.



Biological traces on a white cotton shirt, optimized visualization. Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich

PHOTOMETRICS 1 0 11 0011 0011 0





all measurements 1m distance	Spot	Flood	Page
ULTRAVIOLET			
DLOBML-UV365	2,3 mW/cm ²	0,15 mW/cm ²	14
DLOBML-UV400	l,1 mW/cm²	0,16 mW/cm ²	14
DLOBML-BI-UV			
365nm	1,9 mW/cm ²	0,3 mW/cm ²	14
400nm	2,8 mW/cm ²	0,5 mW/cm ²	14
DLED7-UV365	21,0 mW/cm ²	1,6 mW/cm²	18
DLED7-UV400	23,0 mW/cm ²	1,8 mW/cm ²	18
DLED7-BI-UV			
365nm	9,6 mW/cm ²	1,0 mW/cm ²	18
400nm	20,0 mW/cm ²	2,5 mW/cm ²	18

Spot	Flood	Page
2,650 lux	330 lux	13
21,000 lux	2,600 lux	22
	2,650 lux	2,650 lux 330 lux

VISIBLE BLUE			
DLOBML-BI-BB			
450nm	1,4 mW/cm²	0,4 mW/cm²	14
470nm	1,0 mW/cm ²	0,3 mW/cm ²	14
DLED7-BI-BB			
450nm	12,5 mW/cm ²	1,8 mW/cm ²	18
470nm	9,0 mW/cm ²	1,4 mW/cm ²	18

INFRARED DLOBML-IR860 $2,5 \text{ mW/cm}^2$ 0,2 mW/cm² 14 DLOBML-IR960 1,1 mW/cm² 0,15 mW/cm² 14 **DLOBML-BI-IR** 860nm $0,7 \,\mathrm{mW/cm^2}$ $0,2 \text{ mW/cm}^2$ 14 960nm $0,6 \text{ mW/cm}^2$ $0,2 \text{ mW/cm}^2$ 14 DLED2Y-IR860 $3,3 \ \mathrm{mW/cm^2}$ $0,4 \ \mathrm{mW/cm^2}$ 16 DLED2Y-IR960 4,3 mW/cm² $0,6 \text{ mW/cm}^2$ 16 DLED7-BI-IR 860nm $4,9 \text{ mW/cm}^2$ $1,1 \text{ mW/cm}^2$ 18

 $4,7 \,\mathrm{mW/cm^2}$

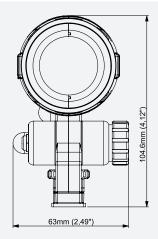
 $1,1 \text{ mW/cm}^2$

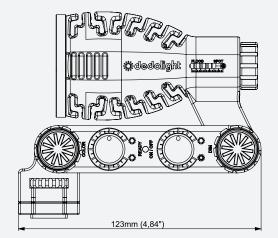
18

960nm



LEDZILLA - LED ON-BOARD LIGHT











Copyright Dr. M. Schulz, Institute of Legal Medicine LMU Munich

DLOBML-BI-POL

Color temperature can be adjusted in a very wide range, from 2700K all the way to 6500K. This light may be adjusted to all ambient light situations. Flipdown linear polarizing filter.

DLOBML-	DLOBML-BI-POL Ledzilla Bicolor as measured in daylight position 5600K							
Distance	Meter	1	2	3	4	5	10	
Distance	Feet	3'	6'	9'	12'	15'	30'	
Flood	Lux	330	83	37				
FIOOD	Foot Candle	31	7.7	3.4				
Medium	Lux	726	182	81	45			
Ivleaium	Foot Candle	67	17	7.5	4.2			
C I	Lux	2,650	663	294	166	106		
Spot	Foot Candle	246	62	27	15	9.9		
	Bicolor in tungsten function ~ 15% lower output							



UV - LED ON-BOARD LIGHT

REDZILLA

DLOBML-IR860

Infrared Ledzilla

Works with cameras having a night-shot function such as Somikon DV-883IR, Sony HDR-XR550/HDR-CX730E/DCR-TRV355E/ PMW-100 and Canon XA10/XA20/XA25 or modified DSLR.

DLOBML-IR960

960 nm Infrared Ledzilla

DLOBML-BI-IR

860nm/960nm tunable IR Ledzilla.

Monocolor		Spot 1 m 5°	Flood 1m 55°	
DLOBML-IR	860	2,5 mW/cm ²	0,2 mW/cm ²	
DLOBML-IR9	960	90 mW/cm ²	15 mW/cm²	
Bicolor		Spot 1m 5°	Flood 1m 55°	
DLOBML-BI	IR860	0,7 mW/cm ²	0,2 mW/cm ²	
	IR960	0,6 mW/cm²	0,2 mW/cm ²	



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UORES-

DLOBML-UV400

400 nm ultraviolet Ledzilla

DLOBML-UV365

365 nm ultraviolet Ledzilla

DLOBML-BI-UV

400nm/365nm tunable ultraviolet Ledzilla

DLOBML-BI-BB

450nm/ 470nm tunable blue light Ledzilla





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Monocolor	Spot 1m 5°	Flood 1m 55°	Bicolor		Spot 1m 5°	Flood 1m 55°
DLOBML-UV400	1,1 mW/cm2	0,16 mW/cm ²	DLOBML-BI	UV365	1,9 mW/cm ²	0,3 mW/cm ²
DLOBML-UV365	2,3 mW/cm2	0,15 mW/cm ²		UV400	2,8 mW/cm ²	0,5 mW/cm²

All prices are ex stock Munich, excluding V.A.T. All specifications and prices are subject to change without prior notification.



LEDZILLA, IREDZILLA, FLUORESZILLA POWER SUPPLY OPTIONS

Batteries



DLB-NPF550

7.4 V Li-Ion battery 14.8 Wh (2000 mAh)

Power Cable



DLPS-12 100-240V with 12V DC output

Battery Cables



Cable 28 cm / 11" with D-Tap connector



DDCC-XLR

65 cm - 1,30 m / 25 - 51" with 4 - Pin XLR connector



DLB-NPF950

7.4 V Li-lon battery 43.2 Wh (6000 mAh)

Belt Adapter



DLBCA-NPF NPF Adapter Belt holder with Velcro loop to carry NPF battery on a belt



DDCC-DTAPL Cable 55 cm / 22" with DTap connector



DDCC-CAR Cable 1,8 m (6 ft.) with cigarette light connector



DLCH-NPF

NPF-Battery Charger Input: 100-240V



DLBCA-V V-Mount belt adapter without ballast holder, separate extension cable to light head needed



DDCC-SWIT Swit Cable 55 cm / 22" with Ø 2,1 / 5,5 mm connector for Swit battery

Battery Holder Plates DLOBML-BS for 7.2 V Sony NP-F/Panasonic VW-VBD1 DLOBML-BSV for 7.2 V Sony NP-FV DLOBML-BSU

for 12 V Sony for BP-U **DLOBML-BP** for 7.2 V Panasonic CGA **DLOBML-BP2** for 7.2 V Panasonic VW-VBG6 **DLOBML-BP3** for 7.2 V Panasonic VW-VBG

070/130/260, CGA-DU07/14,



DLBF-8AA

External battery box for 8 AA batteries 1.5 V



DLBCA-AB

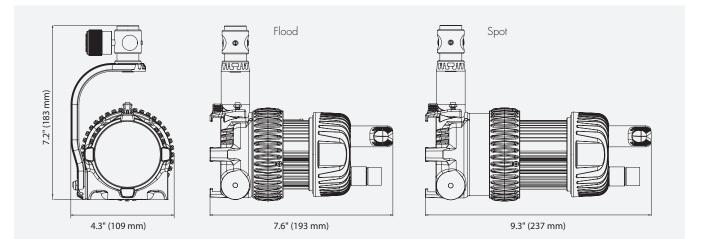
Anton/BauerMount belt adapter w/h ballast holder, sep. extension cable to light head needed



DDCC-PAG PAG Cable 55 cm / 22" with Ø 2,1 / 5,5 mm connector for PAG battery

Plates	DLOBML-BP4
	for 7.2 V Panasonic VVV-VDB 58
	DLOBML-BC
onic	for 7.2 V Canon BP-9
	DLOBML-BC2
	for 7.2 V Canon BP 808/80/819
	Photo Battery Shoe:
	DLOBML-PBC1
	for 7.2 V Canon for LP-E6
	DLOBML-PBN1
	for 7.2 V Nikon for EN-EL3E
66	DLOBML-PBN2
	for 7.2 V Nikon EN-EL15
3G	DLOBML-PBP 1
(14/01	
/14/21	for 7.2 V Panasonic DMVV-BLF19E

DLED7 DEDOLIGHT TURBO



DLED7 Bicolor focusing LED Light Head

Basic size is identical to the now very well accepted DLED4. Small, compact, elegant focusing, robust with double helical focusing mechanism. Now including a very quiet active cooling system enabling the use of much higher wattage LED light sources. Provides drastically enhanced light output.

DLED7-BI Focusing LED Light Head. Bicolor measured at 5600K – daylight						
Color temperature c	ontinuously adju	istable from	2700 - 65	500K		
Meter 1 2 3 4 5						
Distance	Feet	3′	6'	9'	12′	15'
	Lux	2,600	650	289	163	104
Flood	Foot Candle	243	61	27	15	9.7
	Lux	4,680	1,170	520	293	187
Medium	Foot Candle	435	109	48	27	17.4
C	Lux	21,000	5,250	2,333	1,313	840
Spot	Foot Candle	1,952	488	217	122	78
	Bicolor in tung	sten functior	1 ~ 18% lo	wer output		



Focusing 90W TURBO LED light head, bicolor

TECHNICAL DATA:

Focus Range (Intensity Range)	60°-6° (1:20) with optional aspheric wide-angle attachment: 85-54°
Focus Control	One complete turn on focus ring
Power	Max. Power Consumption 90 W, Even for bicolor version, which operates, alternating between 2 x 80 W light sources
Mounting	5/8" (16 mm) receptacle and 1 1/8" (28 mm) stud
Operating Position	Any
Tilt Control	Permanent friction
Accessory Holder*	3" (76 mm) diameter
Safety	Protection Class III, SELV, IP20
Cooling	Active Silent Cooling
UV	No UV radiation
Weight	2.9lb (1,300g)

DLED7 SPECIAL --- INFRARED AND UV

DLED7 Infrared focusing LED Light Head

DLED7-BI-IR

Monocolor		Spot 1 m 5°	Flood 1 m 60°
DLED7-BI	IR860	4,9 mW/cm ²	1,1 mW/cm²
DLED7-BI	IR960	4,7 mW/cm ²	l,l mW/cm²

- 80 W IR LED
- Compatible with DLED4 light shaping accessories
- LED power indicator
- AC DT7-BI-E ballast
- DC DT7-BI-BAT ballast with optional battery belt holder



DLED7 UV focusing LED Light Head

DLED7-UV365

80 W DLED7-UV365 works with 365 nm wavelength

DLED7-UV400

80 W DLED7-UV365 works with 390-400 nm wavelength

DLED7-BI-UV

80 W DLED7-BI-UV, tunable 365/400 nm

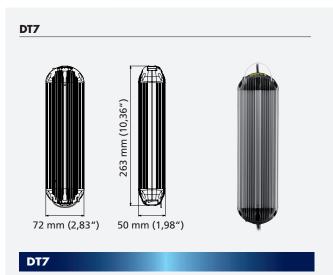
DLED7-BI-BB

80 W DLED7-BI-BB, tunable 450/470 nm

Monocolor		Spot 1m 5°	Flood 1m 60°	
DLED7-UV365		21,0 mW/cm ²	1,6 mW/cm ²	
DLED7-UV400		23,0 mW/cm²	1,8 mW/cm ²	
Bicolor		Spot 1m 5°	Flood 1m 60°	
DLED7-BI-UV 365		9,6 mW/cm ²	1,0 mW/cm ²	
	400	20,0 mW/cm ²	2,5 mW/cm ²	



DLED7 Power Supply Options



AC ballast for DLED7-D/DLED7-T Turbo monocolor light head

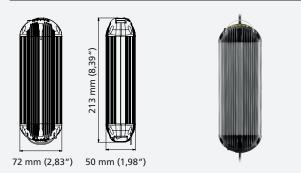
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AC ballast with digital display for Kelvin values for DLED7-BI Turbo bicolor light head

TECHNICAL DATA: DT7, DT7-BI

Input Voltage	90-265V AC *, 105VA / 1.0-0.44A, 90W
Output Voltage	48V
Controls	ON/OFF switch, dimming knob
Dimming	Continuously from 100-0%
Safety	Protection Class I, IP40
Cable length (plug - > power supply)	Mains cable 8.2′/ 2.5 m
Cable length (plug - > light head)	Cable to light head 4.6 '/ 1.4 m
Mounting	Cable loop
Weight	3.1lb / 1,400g

DT7-BAT-AB



DT7-BAT-AB

DC dimmable ballast for Turbo monocolor light heads to use with batteries. 10,8-36 V DC input range. DTAP input cable. Weight 1.3 lbs/ 610g

DT7-BI-BAT-AB



DT7-BI-BAT-AB

DC ballast with D-Tap cable Weight 1.4 lbs/ 650 g

Ledzilla[®], Iredzilla, Fluoreszilla Mounting & Accessories

Camera Adapter



DLA-LB

Large bone, 2 x female shoe and $3 \times 1/4''$ recepticals, mounts to camera with 1/4" screw



DLBSA-MBJ

Metal ball joint, square top with 1/4" thread and camera shoe



DLGA300

Articulating arm 300 mm, square top with 1/4" thread, camera shoe or 1/4'' screw to camera



DLBSA-U

Triple female camera shoe with tilt lock

Stand Adapter



DLBSA-35 Triple female camera shoe

DLBSA-JSF

Stand adapter, camera shoe

accepts 16 mm baby stud (5/8")

with tilt lock



DLGA200

Articulating arm 200 mm, square top with 1/4" thread, camera shoe or 1/4" screw to camera(400 mm)

Stand Alone



DLBSA-TS

Table support 9.5 x 6.3 x 1.2 cm (3.7" x 2.5" x 0.5"), accepts camera shoe



DLBSA-HAND

Handle with female camera shoe



Stand adapter, square top with

1/4" thread accepts 16 mm

DLBRS

DLA-ML

baby stud (5/8")

Rail with 1/4'' screw for camera and female camera shoe for light head



Rail with folding handle 1/4" screw for camera and female camera shoe for light head



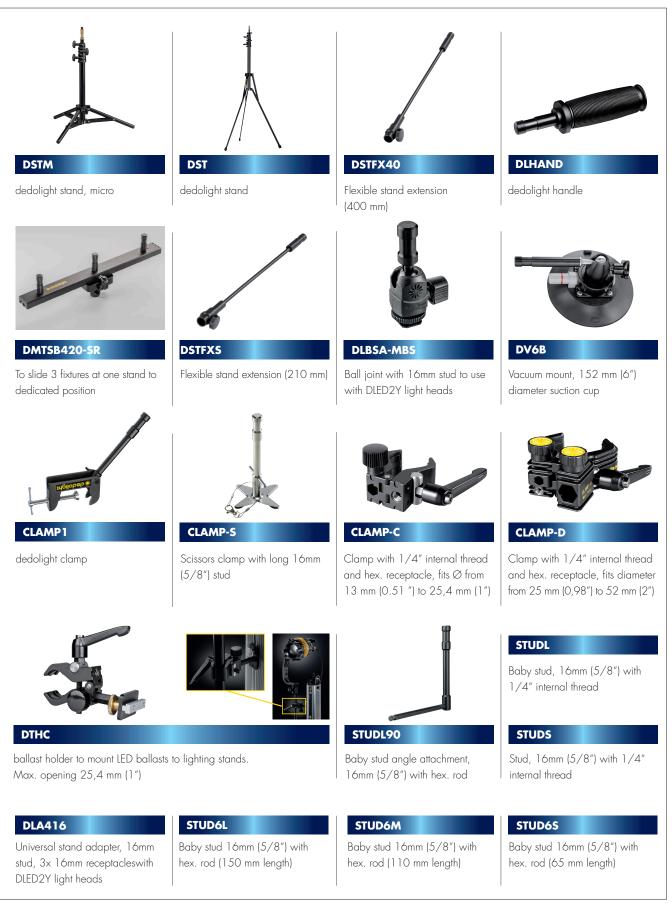
DV3GA

Vacuum mount Ø 7,5 cm / 3" with 200 mm articulating arm



DLOBML-P

Soft pouch for Ledzilla LED light head



DLED CASES & BAGS



DCHDW1

Transport hard case with handle and wheels (KLT7-3)



DBPSW

Backpack, small, with transport wheels (for Felloni panel)





DCHDKA2 Transport hard case (KLED2x1F Kits)



DSCM2 Soft case, mono, large.



DSCM Soft case, mono





DSC2W Soft case, medium with transport wheels



Soft case, large with transport wheels

Soft bag for four DST stands



Soft bag for three DSTM stands

DSC1 Soft case, small

Soft case, medium

DSC2

DCHDKA1 Transport hard case

(KA24 / KLED3 / KLED4 Kits)

Notes:

11 0 11 0011 0011

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