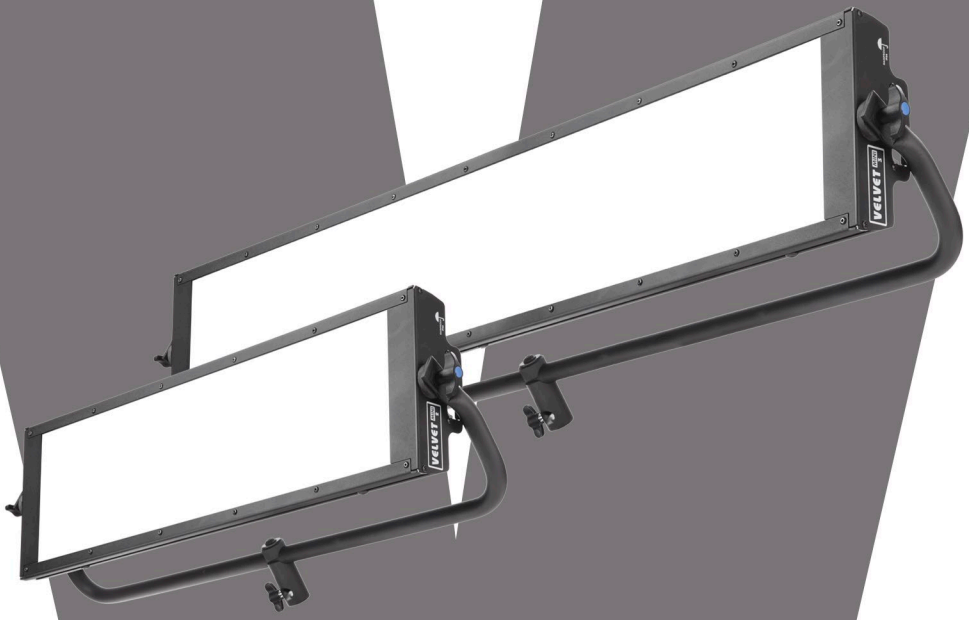
VELVET



RAINPROOF PANORAMIC PANELS

VELVET MINI 2/3

SERIES USER MANUAL

velvetlight.tv

This guide provides information about how to use the product functions to illuminate with this equipment as well as warnings on his use.

These are products of professional use for exterior and interior locations or studio and must be operated only by qualified technical personnel.

To obtain the maximum features, please read the following operating instructions very carefully before using this fixture for the first time. Please keep these operating instructions for you and subsequent users to reference in the future.

THELIGHT Luminary for cine and TV, S.L.

SAFETY PRECAUTIONS

For your own safety, please read and follow all safety instructions and warnings.

EXEMPTION FROM Liability

VELVET (THELIGHT Luminary for cinema and TV, S.L.) does not assume any responsibility for lighting failures caused by malfunction of this product.
The manufacturer disclaims liability for any damage to persons or property caused by inappropriate operation, damage of this kind lies in the responsibility of the operator.

WARRANTY

This product is manufactured to local specifications and the warranty is valid within the country of purchase. Should the product fail or malfunction while you are abroad, the manufacturer assumes no responsibility for servicing the product locally or bearing the expenditure incurred thereof.

www.velvetlight.tv

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VELVET technology is protected under Spanish license laws with international patents pending.
Information and specifications in this document are subject to change without notice.

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Various symbols are used throughout this instruction manual and on the product to prevent physical harm to you or other people and damage to property.

The symbols and their meanings are explained below.

WARNING

Possible risk of injury or damage to equipment

Do not attempt to open any of the device or component housings. To reduce the risk of electric shock, do not remove LED panel side covers or front plastic diffuser. No user-serviceable parts inside. Maintenance and repair work to be carried out only by VELVET Service Centre.

Do not cover the aluminium lamp head heat sink while using it. Proper ventilation must be provided. Avoid exposing the lamp head to the heat radiation of other light fixtures.

The lamp head is equipped with mid power LED. Due to their high light-output intensity don't stare directly into the light source

DANGER

This symbol indicates the risk of electric shock or fire danger that could result in injury or damage to equipment.

In order to protect against risk of electric shock, the installation should be properly grounded. Defeating the purpose of the grounding type plug will expose you to the risk of electric shock.

CE

This equipment has been checked and meets the requirements of general safety for electronic devices. These requirements are specified to provide a reasonable protection against electromagnetic interferences when the equipment is used in commercial environments.

This equipment generates, uses and can emit waves of radio frequency, and if not properly used following the instructions of this manual can produce interferences in radio communications. The use of this equipment in residential areas can produce interference, the user will be the only responsible of correcting them.

CAUTION

Though the light generated by LED does not produce any heat, for what his use turns out to be very comfortable for the actors, the lamp head acts as a heat sink through its back part.
Surface can reach a temperature between the 20 °C and the 60 °C. Please use protective gloves if you touch the lamp head at the heat sink.

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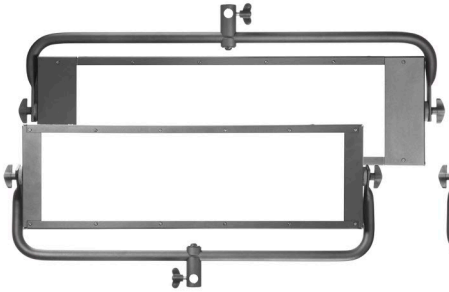
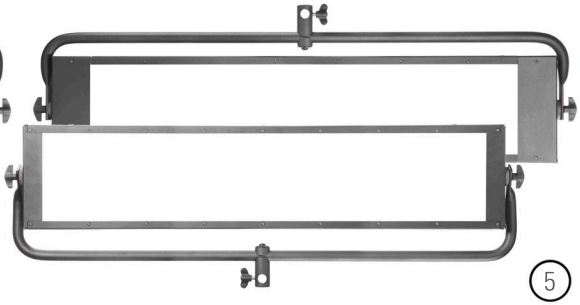
VELVET Mini 2 / Mini 2 STUDIO
RAINPROOF/DMX DUSTPROOF/DMX



VELVET Mini 3 / Mini 3 STUDIO
RAINPROOF/DMX DUSTPROOF/DMX



VELVET Mini Lights are LED panels housing Osram mid power LED. They had been specially designed and their colorimetry calibrated for professional photography, cinematography and television industry use.

VELVET
innovations

- Rainproof robust aluminum construction
- Variable Color Temperature from 2700K to 6500K
- Dedicated quick-access button 32K / 56K
- Mid-power Osram LED 50,000 hours life
- +90 CRI digitally calibrated light
- Professional and consistent color rendition
- Digital control and through DMX RDM (VELVET Mini PRO & STUDIO)
- Silent fan-free operation
- Flicker free up to 3,000 fps
- Soft shadow-less light
- Smooth dimming with no color shift

NOTE ABOUT MEASURING COLOUR TEMPERATURE (CCT)

VELVET Mini incorporate the innovative VELVET technology based on Osram mid power LED precise bin selection + optical diffuser + CPU control software to obtain the wide range of calibrated colour temperatures combined with a high color rendering index CCT.

We must remark that traditional color meters still in use today are designed for a full spectrum source such as incandescent lights and therefore cannot be used to accurately read the correlated color temperature (CCT) of the light emitted by VELVET and other LED light fixtures.
The eventual diversions to green display as CC05M or CC10M in hand-held color meters are due to these unaccuracy on reading of the light emitted by LED and must not be considered.

To precisely measure the light emitted by VELVET and other LED light fixtures a spectrometer specially calibrated for LED sources must be used.

VELVET guarantees pure white light with no green deviation and correct colorimetry of the light delivered by its VELVET LED luminaries which have been calibrated in laboratory according to CIE 13.3-1995 international standards for measurement of the CRI and chromatic coordinates (x, and CIE-1931).

The reliability of this digital equipment is supported by the calibration VELVET has made in laboratory by spectrophotometer, which precision is half-yearly calibrated according to the National Institute of Standards (NIST) of the United States and of the Physikalisch-Technische Bundesanstalt (PTB) of Germany.

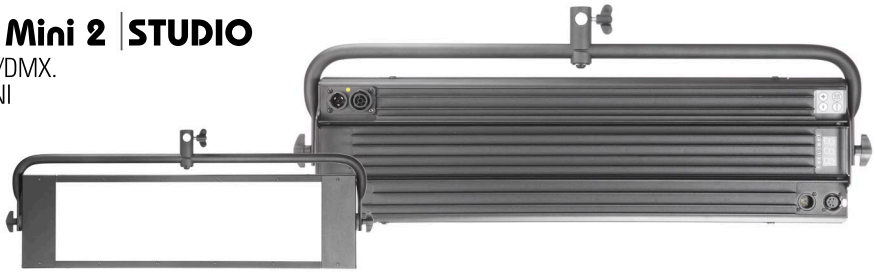
In order that the advanced VELVET luminaries could be used together with other light sources, VELVET has accurately calibrated both the CCT and the chromatic coordinates to match them with traditional light sources following tungsten and daylight standards.

Panoramic 2 feet (Mini 2) and 3 feet (Mini 3) rainproof LED panels made of aluminum housing 504 and 756 respectively OSRAM selected BIN LED.
VELVET Mini 2 Power draw: 100W/0,90 Amps at 110 VAC
VELVET Mini 3 Power draw: 150W/1,36 Amps at 110 VAC

Every VELVET Mini LED panel includes a digital control on board.

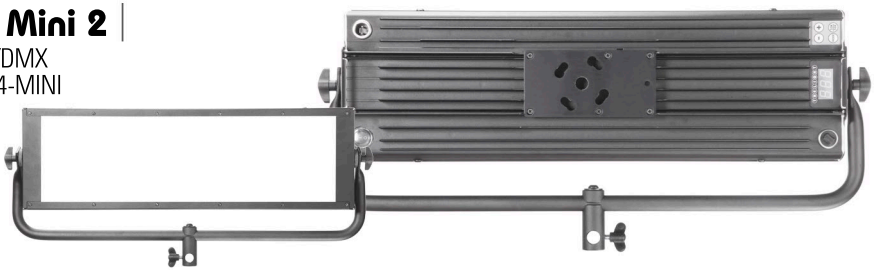
VELVET Mini 2 | STUDIO

DUSTPROOF/DMX.
Ref: VL2-MINI
STUDIO-AC



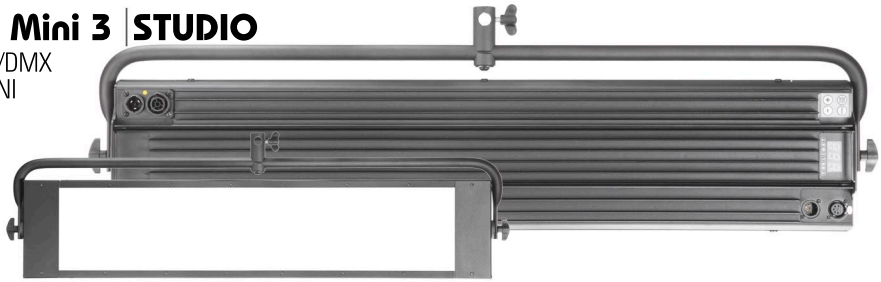
VELVET Mini 2 |

RAINPROOF/DMX
Ref: VL2-IP54-MINI



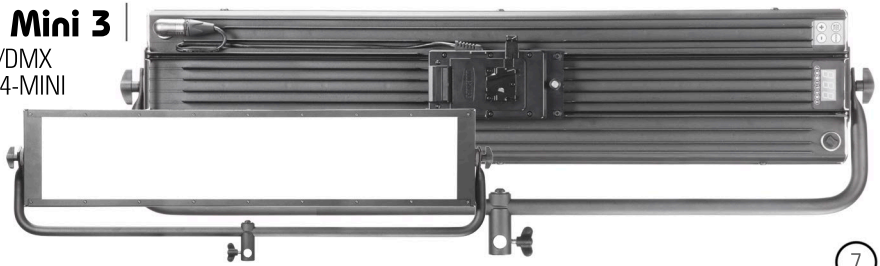
VELVET Mini 3 | STUDIO

RAINPROOF/DMX
Ref: VL3-MINI
STUDIO-AC



VELVET Mini 3 |

RAINPROOF/DMX
Ref: VL1-IP54-MINI



VELVET Mini 2/3
STANDARD

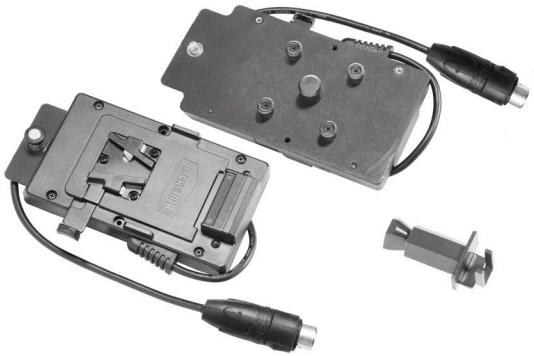
90-246V AC 50/60 Hz Smart Vlock
Power supply + Power cable
Ref VL2-VL3-MINI-VLOCK-PSU

VELVET Mini 2/3
STANDARD

90-246V AC 50/60 Hz Smart Gold
Power supply + Power cable
Ref VL2-VL3-MINI-GOLD-PSU

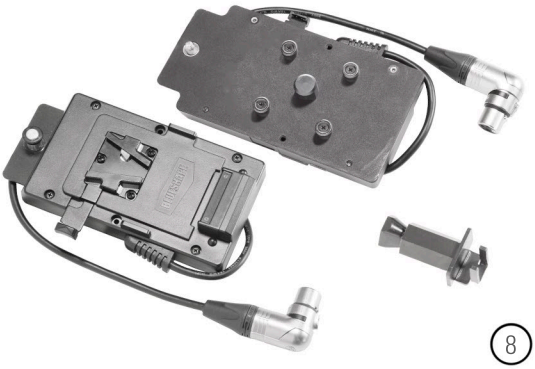
VELVET Mini 2/3
STANDARD

VELVET Mini Vlock to XLR3 IP54
Ref VL-MINI-Vlock-IP54



VELVET Mini 2/3
STANDARD

VELVET MINI Vlock to XLR3 angle
Ref VL-MINI-Vlock-Angle



VELVET Mini 2/3
STANDARD

VELVET Mini Gold to XLR3 IP54
Ref VL-MINI-Gold-IP54

VELVET Mini 2/3
STANDARD

VELVET MINI Gold to XLR3 angle
Ref VL-MINI-Gold-Angle

VELVET Mini 2/3
STANDARD

XLR-3 4,5 meters Extension cable
Ref XLR3-DCC4.5m

VELVET Mini 2/3
STUDIO

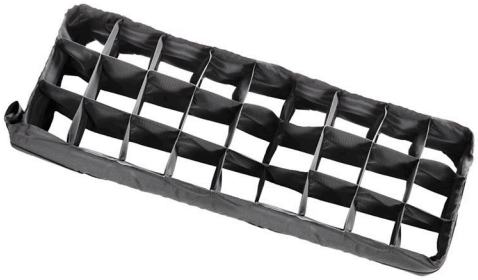
PowerCon TRUE1 to PowerCon TRUE1
daisy chain cable 4 m/ 13 feet
Ref PWC-PWC4m-TRUE1

VELVET Mini 2/3
STANDARDT/STUDIO

Removable Barndoors
Ref VL2-MINI-RB
Ref VL3-MINI-RB

VELVET Mini 2/3
STANDARD/STUDIO

Foldable Snapgrid 40º
Ref VL2-MINI-SGrid
Ref VL3-MINI-SGrid



VELVET Mini 2/3
STANDARD/STUDIO

Foldable Snapgrid 40º
Ref VL2-MINI-SBag
Ref VL3-MINI-SBag

VELVET Mini 2/3
STANDARD/STUDIO

Foldable Snapgrid 40º for Snapbag
Ref VL2-MINI-S-Ç G-for SB
Ref VL3-MINI-S-Ç G-for SB

VELVET Mini 2/3
STANDARD

XLR-5 DMX Aerial splitter IN/OUT
Ref THE-VL-DMXinout

VELVET Mini 2/3
STANDARD/STUDIO

XLR-5 DMX Male/Female cable
3 m/ 10 feet
Ref DMX-DMX-3m

VELVET Mini 2/3
STANDARD/STUDIO

Universal Wireless DMX transmitter
portable desk (8xfader/512Ch)
+ 1 Antenna and 1 AC Adapter
Ref Cinelex-DESK-TX8

VELVET Mini 2/3
STANDARD/STUDIO

Universal DUAL TX/RX Wireless DMX
Transceiver (V-Mount)
+ 1 Antenna and 1 AC Adapter
Ref Cinelex-TRX-V

VELVET Mini 2/3
STANDARD

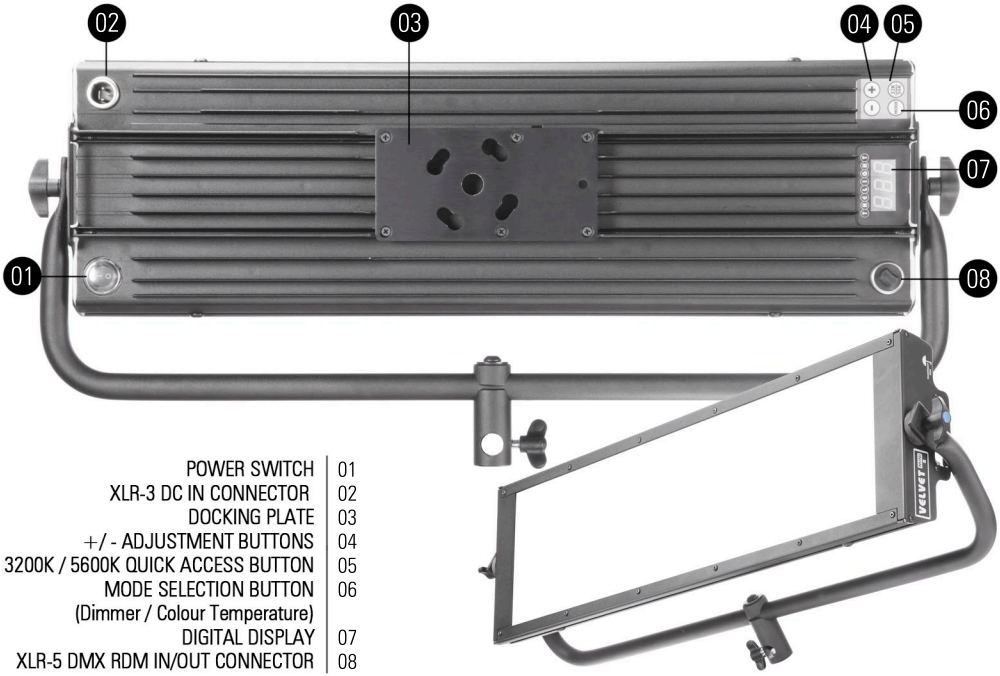
VELVET MINI 2/3 Center Ball Head with
16 mm baby receiver
Ref VL-MINI-QLS

VELVET Mini 2/3
STANDARD

Semi rigid Cordura carrying bag for
1x VELVET MINI 1 kit
Ref: VL2-MINI-Bag
Ref: VL3-MINI-Bag

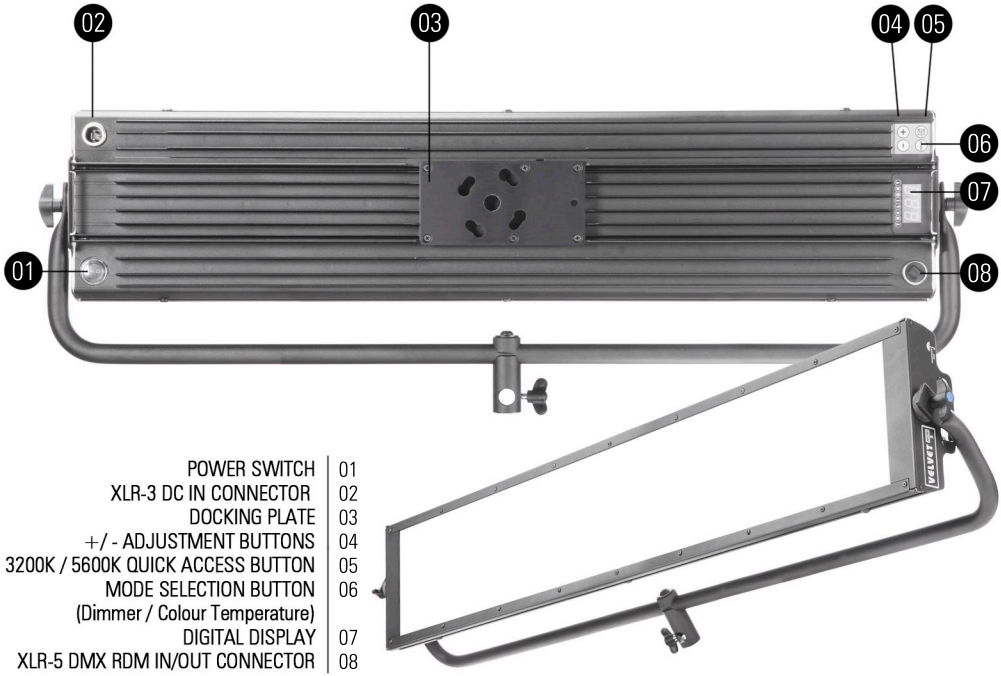
VELVET Mini 2/3
STANDARD

Semi rigid Cordura carrying bag for
1x VELVET MINI 1 kit
Ref: VL2-MINI-Case
Ref: VL3-MINI-Case



POWER SWITCH	01
XLR-3 DC IN CONNECTOR	02
DOCKING PLATE	03
+/ - ADJUSTMENT BUTTONS	04
3200K / 5600K QUICK ACCESS BUTTON	05
MODE SELECTION BUTTON (Dimmer / Colour Temperature)	06
DIGITAL DISPLAY	07
XLR-5 DMX RDM IN/OUT CONNECTOR	08

COLOUR TEMPERATURE	Adjustable from 2700K a 6500K (100K increments)
LIGHT INTENSITY	Dimmable 0 to 100 (smooth and flicker-free)
COLOR RENDERING INDEX	95 CRI
TLCI	95 TLCI
DIMENSIONS	607 x 190 x 90 mm / 24" x 7,5" x 3,5" (panel)
WEIGHT	3 kgs / 6,5 lbs (panel)
POWER DRAW	100 W / 0,90 Amps at 110 VAC
POWER SUPPLY	12-35 VDC through XLR-3 connector Vock or Gold battery quick link mount 90-264 VAC, 50/60Hz through SMART Vlock Power Adapter
BEAM ANGLE	100º
PHOTOMETRICS VELVET MINI 2	2300 lux / 213 fc at 1m / 3 feet 300 lux / 28 fc at 3m / 10 feet
LED RATED LIFE	More than 50.000
DMX RDM	XLR-5 IN/OUT connector
POWER CONNECTION	Docking plate + XLR-3 + Vlock or Gold mounts
OUTPUT FREQUENCY	16KHz (Flicker-free up to 3000 fps)
OPERATION TEMPERATURE	From -20ºC to +40ºC
COOLING	No-noise, fan-free passive cooling
PROTECTION	IP54 RAINPROOF, indoor or outdoor use
VELVET LED TECHNOLOGY	OSRAM selected BIN LED core unit + optic diffuser + CPU software control
RIGGING OPTIONS	Aluminum yoke with 16mm baby receptacle combined with 28mm junior pin, four sliding threads 1/4" for riggings located on VELVET Mini 2 panel sides (6x on VELVET Mini 3), double baby pin for diagonal or vertical position using the standard yoke.
QUICK MOUNTING ACCESSORIES	Smart Vlock AC power adapter, VELVET DMX remote control, foldable Snapgrid, foldable SnapBag, removable barn doors, cordura soft bag
CONSTRUCTION & FINISH	Black anodized extruded aluminum and black powder coated sheet aluminum.



POWER SWITCH	01
XLR-3 DC IN CONNECTOR	02
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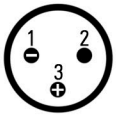
DIGITAL DISPLAY	07
XLR-5 DMX RDM IN/OUT CONNECTOR	08

COLOUR TEMPERATURE	Adjustable from 2700K a 6500K (100K increments)
LIGHT INTENSITY	Dimmable 0 to 100 (smooth and flicker-free)
COLOR RENDERING INDEX	95 CRI
TLCI	95 TLCI
DIMENSIONS	870 x 190 x 90 mm / 34" x 7,5" x 3,5" (panel)
WEIGHT	4,3 kgs / 9,5 lbs (panel)
POWER DRAW	150 W / 1,36 Amps at 110 VAC
POWER SUPPLY	12-35 VDC through XLR-3 connector Vock or Gold battery quick link mount 90-264 VAC, 50/60Hz through SMART Vlock Power Adapter
BEAM ANGLE	100º
PHOTOMETRICS VELVET MINI 3	3200 lux / 296 fc at 1m / 3 feet 450 lux / 42 fc at 3m / 10 feet
LED RATED LIFE	More than 50.000
DMX RDM	XLR-5 IN/OUT connector
POWER CONNECTION	Docking plate + XLR-3 + Vlock or Gold mounts
OUTPUT FREQUENCY	16KHz (Flicker-free up to 3000 fps)
OPERATION TEMPERATURE	From -20ºC to +40ºC
COOLING	No-noise, fan-free passive cooling
PROTECTION	IP54 RAINPROOF, indoor or outdoor use
VELVET LED TECHNOLOGY	OSRAM selected BIN LED core unit + optic diffuser + CPU software control
RIGGING OPTIONS	Aluminum yoke with 16mm baby receptacle combined with 28mm junior pin, four sliding threads 1/4" for riggings located on VELVET Mini 2 panel sides (6x on VELVET Mini 3), double baby pin for diagonal or vertical position using the standard yoke.
QUICK MOUNTING ACCESSORIES	Smart Vlock AC power adapter, VELVET DMX remote control, foldable Snapgrid, foldable SnapBag, removable barn doors, cordura soft bag
CONSTRUCTION & FINISH	Black anodized extruded aluminum and black powder coated sheet aluminum.

BATTERY POWER
12 to 35 VDC

Connect any battery from 12 to 35 VDC to the XLR3 connector located at the back of the panel



When powering VELVET from an external battery through the XLR3 connector check the proper polarity as shown in the picture at the side of the panel.
To ensure maximum performance of the equipment use only high-load capacity batteries with a high continuous draw meaning a Discharge Current of at least 7A.

VELVET Mini 3 needs to be powered exclusively with high-load capacity batteries with a Continuous Discharge Current of at least 9 Amps

BATTERY POWER
Vlock or Gold Battery

Attach the quick link Vlock or Gold plate by aligning the center pin of the mounting plate to the center hole on the panel docking plate.
Rotate the Vlock or Gold plate clockwise until the four shoulder rivets drop into their receptacles. A locking pin will snap into place when the plate is properly locked.
Connect the XLR3 to the connector located on the back of the panel.

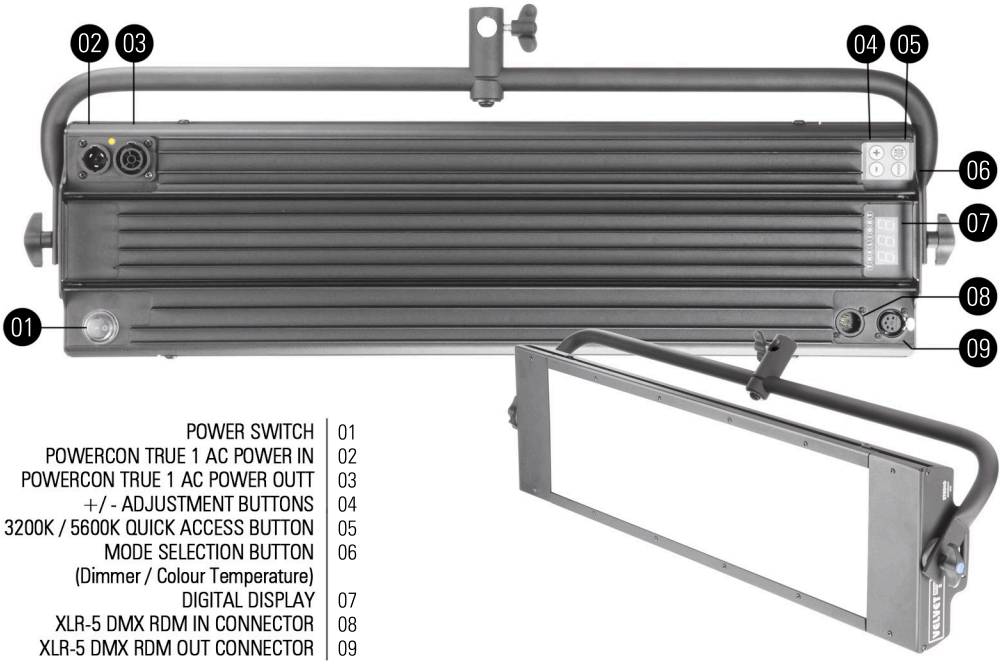
DANGER

To avoid electric shocks and/or damages in the equipment the power switch located at the back of the LED panel must be off before connecting or disconnecting cables.

SMART VLOCK AC Power adapter | Insert the Smart Vlock Power adapter 90-264 VAC into the quick link Vlock plate.

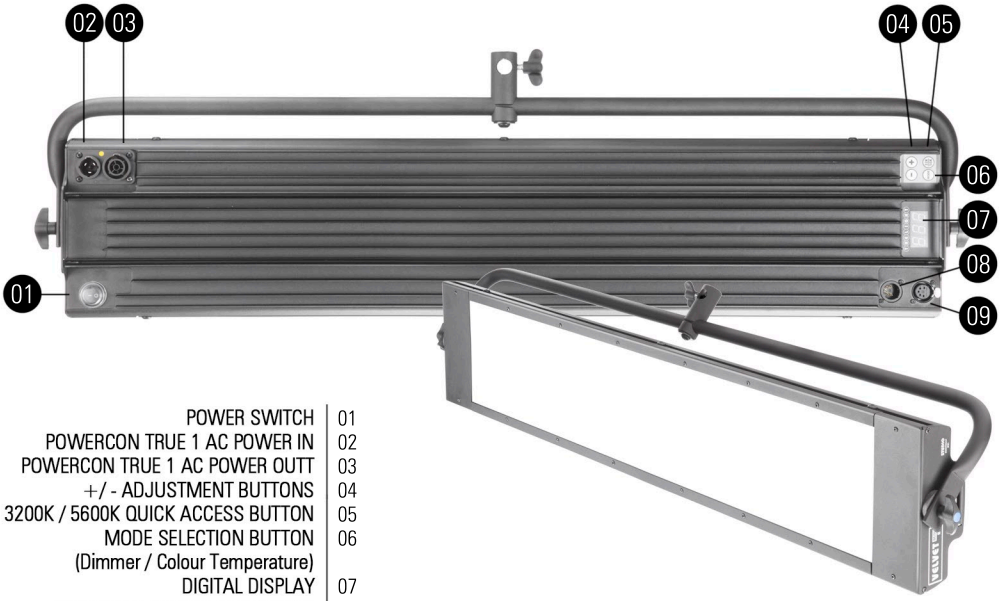
Connect the IEC power cord to the plug located on the side of the Smart Vlock AC adapter and switch on the power switch.

DANGER | To avoid electric shocks and/or damages in the equipment the power switch located at the back of the LED panel must be off before connecting or disconnecting cables.



POWER SWITCH	01
POWERCON TRUE 1 AC POWER IN	02
POWERCON TRUE 1 AC POWER OUTT	03
+/ - ADJUSTMENT BUTTONS	04
3200K / 5600K QUICK ACCESS BUTTON	05
MODE SELECTION BUTTON (Dimmer / Colour Temperature)	06
DIGITAL DISPLAY	07
XLR-5 DMX RDM IN CONNECTOR	08
XLR-5 DMX RDM OUT CONNECTOR	09

COLOUR TEMPERATURE	Adjustable from 2700K a 6500K (100K increments)
LIGHT INTENSITY	Dimmable 0 to 100 (smooth and flicker-free)
COLOR RENDERING INDEX	95 CRI
TLCI	95 TLCI
DIMENSIONS	702 x 190 x 90 mm / 27,6" x 7,5" x 3,5" (panel)
WEIGHT	3,2 kgs / 7,5 lbs (panel)
POWER DRAW	100 W / 0,90 Amps at 110 VAC
POWER SUPPLY	12-35 VDC through integrated PSU 90-264 VAC, 50/60Hz
BEAM ANGLE	100º
PHOTOMETRICS	2300 lux / 213 fc at 1m / 3 feet 300 lux / 28 fc at 3m / 10 feet
LED RATED LIFE	More than 50.000
DMX RDM	XLR-5 IN & OUT connectors
POWER CONNECTION	PowerCon TRUE 1 IN & OUT connectors
OUTPUT FREQUENCY	16KHz (Flicker-free up to 3000 fps)
OPERATION TEMPERATURE	From -20ºC to +40ºC
COOLING	No-noise, fan-free passive cooling
PROTECTION	IP51 DUSTPROOF, indoor or outdoor protected use
VELVET LED TECHNOLOGY	OSRAM selected BIN LED core unit + optic diffuser + CPU software control
RIGGING OPTIONS	Aluminum yoke with 16mm baby receiver combined with 28mm junior pin, four sliding threads 1/4" for riggings located on VELVET Mini 2 panel sides (6x on VELVET Mini 3).
QUICK MOUNTING ACCESSORIES	Foldable Snapgrid, removable barn doors, Remote control through XLR-5 connector, cordura soft bag, hard case.
CONSTRUCTION & FINISH	Black anodized extruded aluminum and black powder coated sheet aluminum.



POWER SWITCH	01
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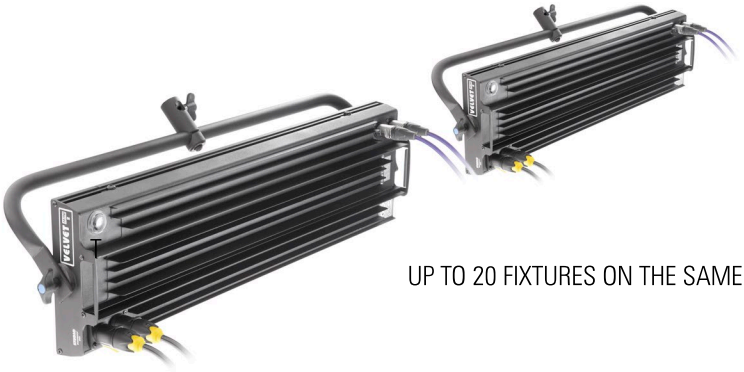
XLR-5 DMX RDM IN CONNECTOR	08
XLR-5 DMX RDM OUT CONNECTOR	09

COLOUR TEMPERATURE	Adjustable from 2700K a 6500K (100K increments)
LIGHT INTENSITY	Dimmable 0 to 100 (smooth and flicker-free)
COLOR RENDERING INDEX	95 CRI
TLCI	95 TLCI
DIMENSIONS	965 x 190 x 90 mm / 38" x 7,5" x 3,5" (panel)
WEIGHT	4,5 kgs / 9,9 lbs (panel)
POWER DRAW	150 W / 1,36 Amps at 110 VAC
POWER SUPPLY	12-35 VDC through integrated PSU 90-264 VAC, 50/60Hz
BEAM ANGLE	100º
PHOTOMETRICS	3200 lux / 296 fc at 1m / 3 feet 450 lux / 42 fc at 3m / 10 feet
LED RATED LIFE	More than 50.000
DMX RDM	XLR-5 IN & OUT connectors
POWER CONNECTION	PowerCon TRUE 1 IN & OUT connectors
OUTPUT FREQUENCY	16KHz (Flicker-free up to 3000 fps)
OPERATION TEMPERATURE	From -20ºC to +40ºC
COOLING	No-noise, fan-free passive cooling
PROTECTION	IP51 DUSTPROOF, indoor or outdoor protected use
VELVET LED TECHNOLOGY	OSRAM selected BIN LED core unit + optic diffuser + CPU software control
RIGGING OPTIONS	Aluminum yoke with 16mm baby receiver combined with 28mm junior pin, four sliding threads 1/4" for riggings located on VELVET Mini 2 panel sides (6x on VELVET Mini 3).
QUICK MOUNTING ACCESSORIES	Foldable Snapgrid, removable barn doors, Remote control through XLR-5 connector, cordura soft bag, hard case.
CONSTRUCTION & FINISH	Black anodized extruded aluminum and black powder coated sheet aluminum.

INTEGRATED AC Power Supply | VELVET Mini 2 & 3 STUDIO are thin and compact panels with the AC power supply integrated and protected into the panel dustproof housing.
It has been designed to be easily installed and hidden on small studios or low ceiling rooms.
Rigging and cabling can be reduced to a minimum thanks to the compact yoke and the in&out PowerCon TRUE1 AC power connector and the in & out XLR-5 DMX-RDM connectors.

VELVET recommends to daisy chain power and DMX-RDM remote control.

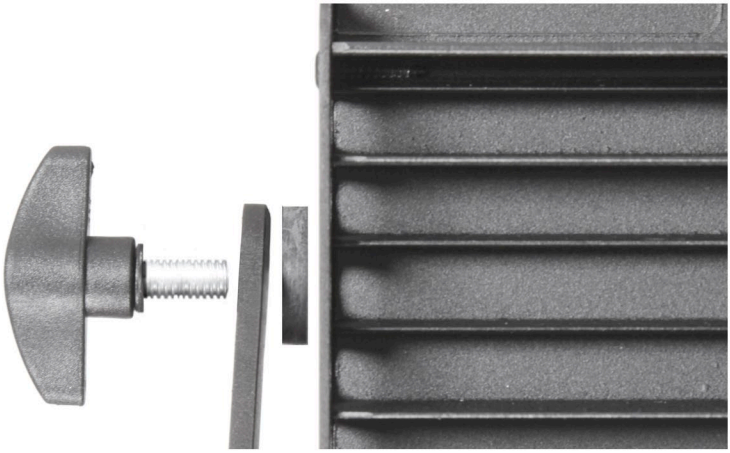


UP TO 20 FIXTURES ON THE SAME LINE

DANGER | To avoid electric shocks and/or damages in the equipment the power switch located at the back of the LED panel must be off before connecting or disconnecting cables.

YOKE TO PANEL assembling

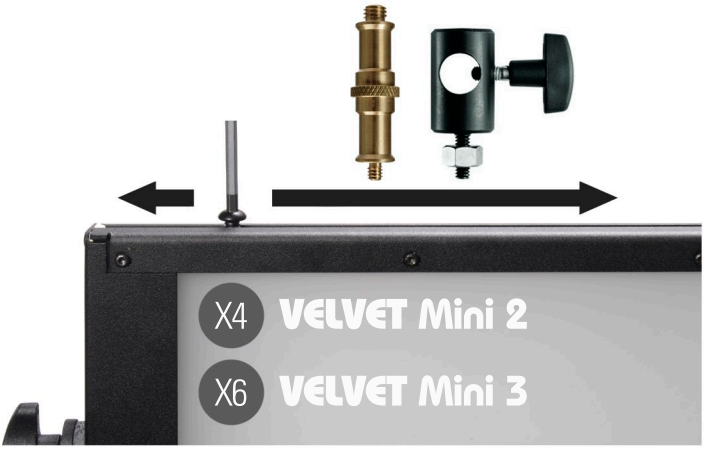
Align the adjustable Yoke with the VELVET Mini panel panel as shown in the picture.



Assemble the Yoke to the LED panel by using the mounting kit of bolts, washers and adjustable handle. First mount the handles with the metric M8 metal washer then insert the thick rubber washers between the Yoke and the LED panel.

WARNING

It is mandatory to mount the rubber washers between the Yoke and the panel to warranty the rainproof IP54.



MOUNTING OPTIONS

VELVET Mini panels have been designed to be easily installed and hidden on tight locations or low ceiling rooms.
They can be rigged up in many ways through the adjustable yoke, swivel ball head or by using the sliding 1/4-20" threads and bolts located on both top and bottom of any VELVET panel.

SECURITY CABLES

The LED panel is provided with several holes specially design to insert one o more snaps and their safety cable.

WARNING

When a VELVET panel and any other component is mounted in a hanging position it must be secured with a safety cable rated at a minimum of ten times the weight of the light fixture including its accessories.

POWER ON/OFF

Turn on the equipment by switching on the power button. The light settings always remain stored when the digital control is powered off.
By pushing the MODE button you can select either Color temperature or Dimmer adjustment.
The digital control enables to adjust the following light parameters through its programmed CPU:

- Calibrated Color Temperature variation
- Stable colour dimming

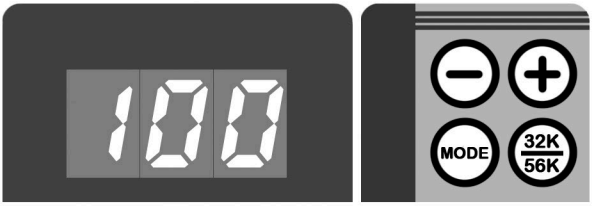
COLOR TEMPERATURE variation

VELVET Mini includes a dedicated button to immediately set 3200K or 5600K.
Color temperature can also be increased or reduced through the +/-- buttons located at the digital control panel. The display indicates either the selected color temperature or the dimming value.
When Color temperature is selected a dot "." appears between the two digits value. The value 3.2 corresponds to 3200K and the value 3.3 to 3300K and so on.

Push the "+" button to increase color temperature or push the "–" button to decrease it. If you keep pushed any of the buttons you will get a fast continuous variation. Every push on the buttons will increase or decrease the color temperature in increments of 100 Kelvin.

DIMMER LIGHT intensity variation

The dimmer is totally digital and guarantees the regulation of light intensity with minimal changes in the selected color temperature.
Light intensity can be easily increased or reduced through the +/-- buttons located at the digital control panel. The display indicates the selected dimmer value from 1 to 100.
Push the + button to increase light intensity or push the – button to decrease it. If you keep pushed any of the buttons the you will get a fast continuous variation.



MASTER-SLAVE function

The integrated Master-slave function allows to link an array of any VELVET Mini products together and operate them all without a controller.
The first VELVET fixture will be the Master acting as the controller and all the others will react and copy the color temperature and dimmer values.
Use DMX XLR-5 in&out splitter cables (ref. THE-VL-DMXinout) to daisy chain several VELVET panels.
Any VELVET Light, Power or Mini can be mixed in the same chain because they are fully compatible.

To make the first unit as the Master follow this steps:

01 Switch off the power button
02 Push "+" and "--" buttons at the same time and then switch on the power button
03 Now the unit is in DMX mode and any DMX channel can be addressed
04 Push the "-" button until "n n t" will be shown in the display

05 Push "32K/56K" button to confirm the MASTER mode
06 A dot will permanently blink on the display reminding that the panel is set as MASTER

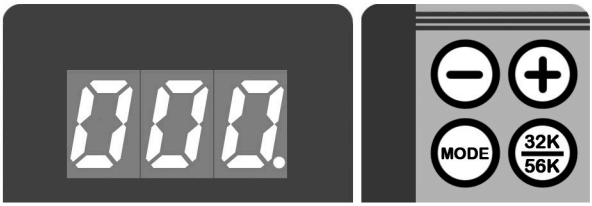
NOTE Every time you switch off the power button the VELVET panels are automatically set to SLAVE mode

WARNING Only the first VELVET panel on the chain can be the Master. Every other VELVET panels must be set on standard Slave mode and address at channel 001.

WARNING The VELVET panel set as MASTER cannot control any other lighting fixture out of VELVET Light or VELVET Power not even other VELVET products.

DMX RDM control

VELVET fixtures have been designed for a full bi-directional DMX RDM control from the 5-pin DMX port located at the back of the fixture.
Once the DMX controller is powered ON a dot "." appears in the right down corner of the digital display as DMX operation status reminder.



Use DMX XLR-5 in&out splitter cables (ref. THE-VL-DMXinout) to daisy chain several VELVET non STUDIO panels or mix them within any DMX line of different fixtures.

ADDRESSING CHANNELS

01
02
03
04
05

To address the DMX channel on any VELVET panel follow this steps:
Switch off the power button
Push "+" and "--" buttons at the same time and then switch on the power button.
Now the unit is in DMX mode and any DMX channel can be addressed
Push the "+" or "–" buttons to increase or decrease the first fixture address.
Once you have chosen the desired address number push the "32K/56K" button to save the selection.

Keep in mind the following points regarding DMX control:
- VELVET DMX protocol uses 2 channels per fixture
- After the DMX address is entered the fixture will automatically assign the following channel
- If you wish to control several VELVET fixtures at the same values you will have to set them to the same address
- If you wish to control several VELVET fixtures independently you will have to offset their address by 2 channels. Example
  fixture1 address 001 -- fixture2 address 003 -- fixture3 address 005

DMX CHANNELS

When you connect your console to VELVET you will be able to control the fixtures through 2 channels:

CH01 START ADRESS

COLOUR TEMPERATURE From 2.7 to 6.5 (from 2700Kelvin to 6500Kelvin)
Fader=0 (2.7) means 2700Kelvin / Fader=100 (6.5) means 6500Kelvin

CH02 START ADRESS+1

DIMMER

NOTES

Do not use microphone cables or other general purpose two-core cables designed for audio or signal use. They are not suitable for DMX 512. Problems due to wrong cabling may not be immediately perceptible. Microphone cables may appear to work fine, but systems built with such cables may fail or be susceptible to random errors. Cable must comply with RS-485 DMX protocol (EIA485).

A DMX terminator should be plugged into the final, empty, OUT connector of the last slave on the daisy chain. A terminator is a stand-alone male connector with a built-in 120 Ω resistor, matching the cable characteristic impedance, connected across the primary data signal pair.

SNAPGRID / SNAPBAG installation | Position the VELVET panel with the light pointing up. Unfold the Snapgrid or the Snapbag, place it over the VELVET diffuser and flip the elastics over the panel corners to secure it.
The side covers prevent emitting of spill light.
The Snapgrid produce a 40º beam angle, the Snapbag triples the area by subtracting only a 40% of power draw.

BARN DOORS installation | Position the VELVET panel with the light pointing up. Unscrew the 4 adjustable ¼-20" threads and bolts located on both top and bottom (6 in VELVET Mini 3). Then, place and screw the Barndoors to secure it.
The barndoors prevent emitting of spill light.

NOTES | SNAPGRID CLOTH FLAMEPROOF RATING
The Snapgrid has been manufactured with black cloth which meets the flameproof standards UNE EN 1101 and EN 13772

CENTER BALL HEAD & INCLUDED HEXAGONAL SPUD installation

Atach the QLS plate by aligning the center pin of the mounting plate to the center hole on the docking plate.
Rotate the QLS plate clockwise until the four shoulders rivets drop into their receptacles. A locking pin will snap into place when the plate is properly locked.

You can place the Vlock, Gold mount or AC Power on any stand mast for a handy use close to the lamp head.
To do so you will need to use a regular Super Clamp (not included in the kit) and insert the Hexagonal 5/8" (16mm) baby spud.
Once installed the hexagonal spud, just slide the holder (located at the Vlock, Gold mounts) bottom over the spud plate until properly seated.

NOTES | To power the VELVET LED panel you need to use a VELVET XLR3 DC power extension cable, Ref: XLR3-DCC4.5m

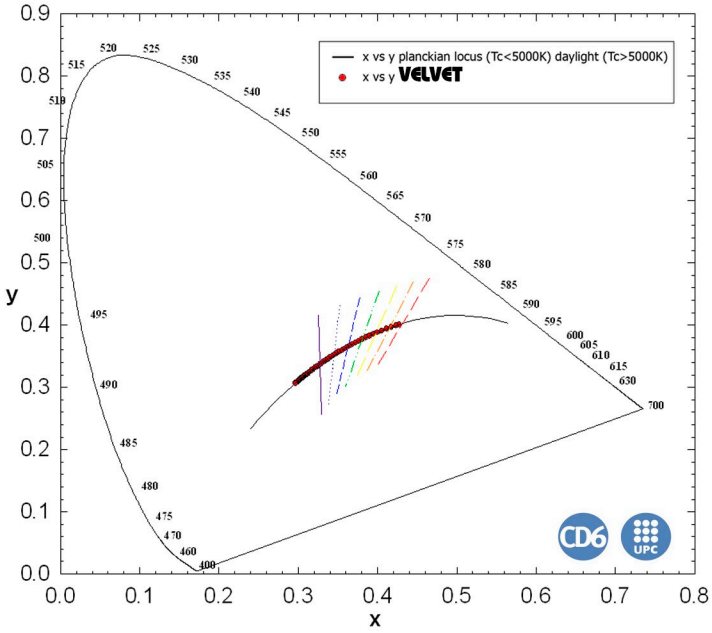
VLOCK/GOLD FAST PLATE installation

Atach the quick link Vlock or Gold plate by aligning the center pin of the mounting plate to the center hole on the docking plate.
Rotate the Vlock or Gold plate clockwise until the four shoulders rivets drop into their receptacles. A locking pin will snap into place when the plate is properly locked.
Connect the XLR3 to the connector located on the back of the panel.

SMART PSU & BATTERY installation

Insert the Smart Vlock Power adapter 90-264 VAC or any Vlock battery into the Vlock plate.
Vlock or Gold plates are not available for the VELVET Mini 2 & 3 STUDIO.

(x, y CIE-1931)



Shown on the diagram are the VELVET lamp head chromaticity coordinates (x, y CIE-1931) feed and digitally controlled by its Control Unit and they are compared with the reference illuminants. These reference illuminants are the Planckian locus radiator set below 5000K and the CIE daylight reference is set over 5000K. The Planckian locus radiator references the chromaticity for several tungsten lamps colour temperatures while the daylight locus typify daylight type D illuminants.
The diagram evidence the light emanated by VELVET luminary at every colour temperature entirely matches with the described locus reference so that the colour of the light produced is essentially the same as incandescent and daylight. It is also remarkable the minimum green/magenta deviation over the locus reference along the range of colour temperatures (means minimal difference between VELVET chromaticity coordinates and the ideal reference line).

CALIBRATION

The Instrument Systems scanning spectrometer, model Spectro 320, serial number 30932004, with its accessory TOP-100 has been calibrated according to the United States National Institute of Standards (NIST) and the german Physikalisch-Technische Bundesanstalt (PTB) standard references.

ACCURACY

The Instrument Systems scanning spectrometer, model Spectro 320, serial number 30932004, with its accessory TOP-100 has an imprecision over the spectral radiometric results delivered lower than 1%.

Specifications subject to change without notice. VELVET technology is protected under Spanish license laws with international patents pending.
THELIGHT luminary for cine and tv, S.L. www.velvetlight.tv

This equipment is designed to meet the following regulations and safety standards for battery powered technology equipment:

ENVIROMENTAL

Devices are certified and intended for indoor or outdoor use (IP54 or IP51)
LAMP HEAD OPERATION TEMPERATURE from -20º to +40º C
OPERATING HUMIDITY from 30 to 90% RH non condensing
DECLARATION OF CONFORMITY TO EMC DIRECTIVE 2004/108 EC

MANUFACTURER name & adress

VELVET (Thelight luminary for cine and tv, S.L.)
Carrer de la Cerdanya 11-A. 08192 Sant Quirze del Vallés. BARCELONA, SPAIN. info@velvetlight.tv / www.velvetlight.tv

STANDARDS

EC - DECLARATION OF CONFORMITY
Brand Name: VELVET

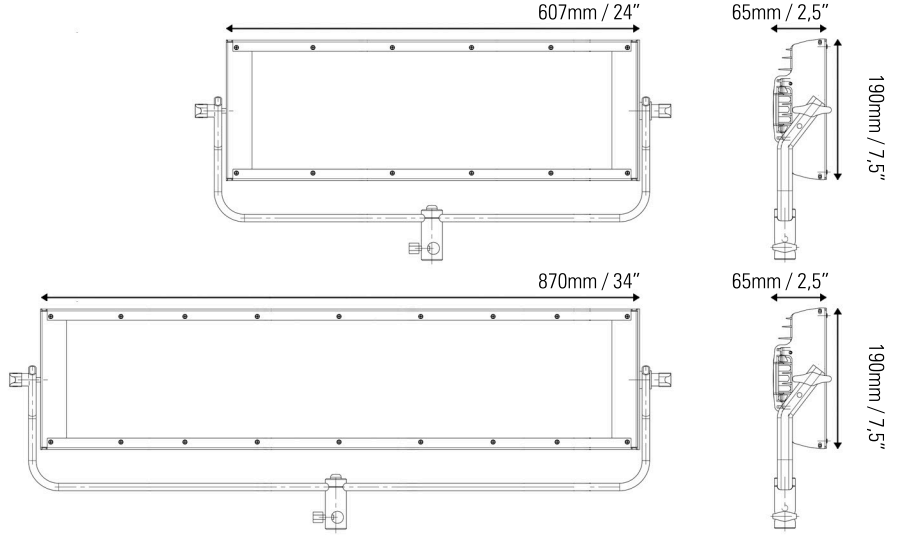
Product Description: LED Luminaire systems for professional use
VELVET Power 1, VELVET Power 2, VELVET Power 2x2, VELVET Light 1, VELVET Light 2, VELVET Light 2x2, VELVET Light 4, MINI 1, MINI 2, MINI 3, MINI 1 Power, MINI 2 Power, VELVET Sword 2, VELVET Sword 4.

The above products abide by the following European Directives:

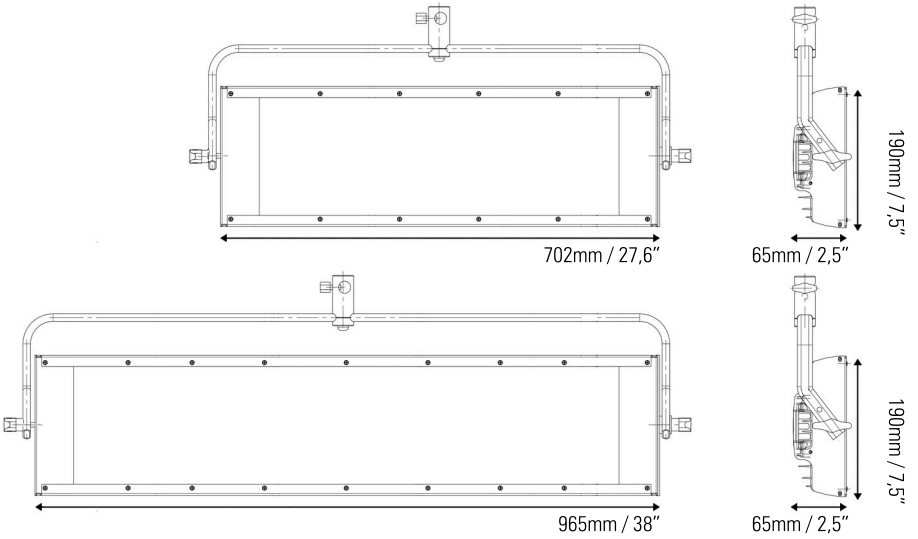
DIRECTIVE 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to electromagnetic compatibility.
DIRECTIVE 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.
DIRECTIVE 2001/95/EC of the European Parliament and the Council of 3 December 2001 on general product safety
DIRECTIVE 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
In compliance with the harmonized standards:
IEC 60598-1:2014 Luminaires – Part 1: General requirements and tests
IEC 60598-1-17:2017 Luminaires – Part 2-17: Particular requirements – Luminaires for stage lighting, television and film studios (outdoor and indoor)
IEC 62031:2008/A1:2012 LED modules for general lighting - Safety specifications
IEC 61547:2009 Equipment for general lighting purposes - EMC immunity requirements
IEC 61000-6-1:2005 Electromagnetic compatibility (EMC) -- Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
IEC 61000-6-3:2006/A1:2010 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
IEC 61000-6-4:2006/A1:2010 Electromagnetic compatibility (EMC) -- Part 6-4: Generic standards - Emission standard for industrial environments
EN 301489-1 V1.8.1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
IEC 62493:2009 Assessment of lighting equipment related to human exposure to electromagnetic fields
EN 55015:2013 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 62471:2008 Photobiological Safety of Lamps and Lamp Systems

Sant Quirze del Vallés. BARCELONA, 12 March 2018
Administrator - Javier Fdez. de Valderrama

VELVET Mini 2 | Weight: 3 kgs / 6,5 lbs. Power draw 100 W /0,64 Amps at 110 VAC
VELVET Mini 3 | Weight: 4,3 kgs / 9,5 lbs. Power draw 150 W /0,96 Amps at 110 VAC.
IP54 protection



VELVET Mini 2 STUDIO | Weight: 3,5 kgs / 7,7 lbs. Power draw 100 W /0,90 Amps at 110 VAC
VELVET Mini 3 STUDIO | Weight: 4,5 kgs / 9,9 lbs. Power draw 150 W /1,36 Amps at 110 VAC.
IP51 protection



GENERAL WARRANTY

VELVET LED light equipments are guaranteed to be free from defects in workmanship and parts in a warranty period of two (2) years from the date of purchase. Defects that occur within this warranty period, under normal use and care will be repaired or replaced at VELVET discretion, solely at our option with no charge for parts or labour.
In the event of the equipment malfunction, contact the dealer from which you purchased the product. Please note that you will be not be reimbursed for the cost of bringing the equipment to the VELVET Repair Centre.
VELVET reserves the right to replace the product or relevant part with the same or equivalent product or part, rather than repair it. Where a replacement is provided the products or part replaced becomes the property of VELVET. VELVET may replace parts with refurbished parts. Replacement of the product or a part does not extend or restart the Warranty period.

RETURN POLICY

Returns or exchanges from the customers will be accepted within 15 days of delivery and will not include the actual shipping costs. Item(s) must be in original packaging and condition, must not be assembled, and must include its original user manual.

This warranty does not cover any damage resulting from:
• Failure to follow the instructions in the instruction manual Repair, modification or overhaul not conducted by any authorized VELVET personnel.
• Fire, natural disaster, act of God, lightning, abnormal voltage, etc;
• Submergence in water (flooding), exposure to alcohol or other beverages, infiltration of sand or mud, physical shock, or dropping of the equipment and other unnatural causes.

This warranty only applies to the LED panel and not to the accessories, such as barn doors or mounts.
Any consequential damages arising from failure of the equipment, such as expenses incurred in taking pictures or recording images or loss of expected profit, will not be reimbursed whether they occur during the warranty period or not.
Parts essential to the servicing of the light equipment (that is, components required to maintain the functions and quality of the fixture) will be available for a period of five years after the product is discontinued.

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www.velvetlight.tv

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made to last

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