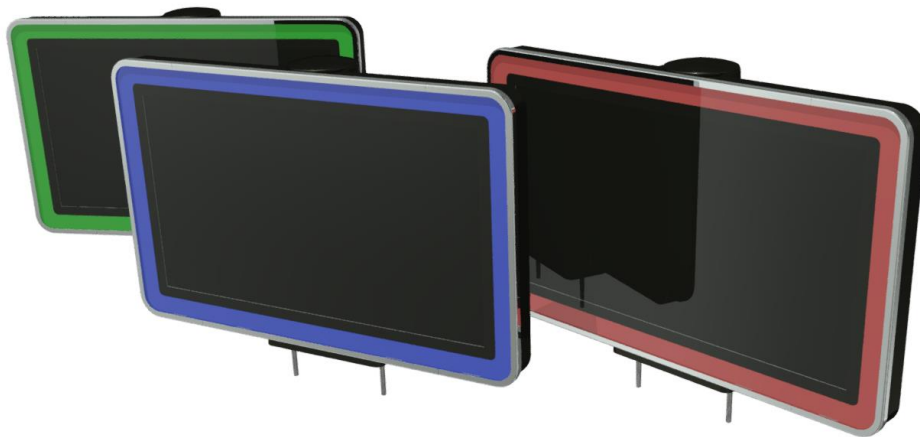


# 19.5" Video Topper

Model: 103-02XXXXXXXX

## Manual

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# SUZOHAPP

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## 1. Introduction

Congratulations with the purchase of your SuzoHapp Video Topper. Based on your configuration, the Video Topper is included with a LCD monitor or a light box. Further configurations specifies the colour of the bezel and whether a tower light is included or not. See 'Chapter 3 – Model configurations' for all available options. The chosen configuration may affect the available cables to connect into your installation.

## 2. Safety

This monitor is only suitable for use in an interior environment where it's not sealed and not subject to dust, dirt, condensation (Pollution Degree 2) (IP20).

It is not allowed to connect appliances to the monitor which does not comply to SELV or Class II qualification.

Unplug the monitor from the power outlet before cleaning. Do not use alcohol (methyl, ethyl or isopropyl) or any strong dissolvent. Do not use thinner or benzene, abrasive cleaners or compressed air. To clean the monitor, use a cloth lightly damped with a mild detergent.

The slots located on the backside of the monitor case are for ventilation. Do not block or insert anything inside the ventilation slots.

It is important that your monitor remains dry. Do not pour liquid into or onto the monitor. If the monitor becomes wet do not attempt to repair it yourself.

If the liquid crystal materials leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, legs or clothes, it must be washed away thoroughly with soap.

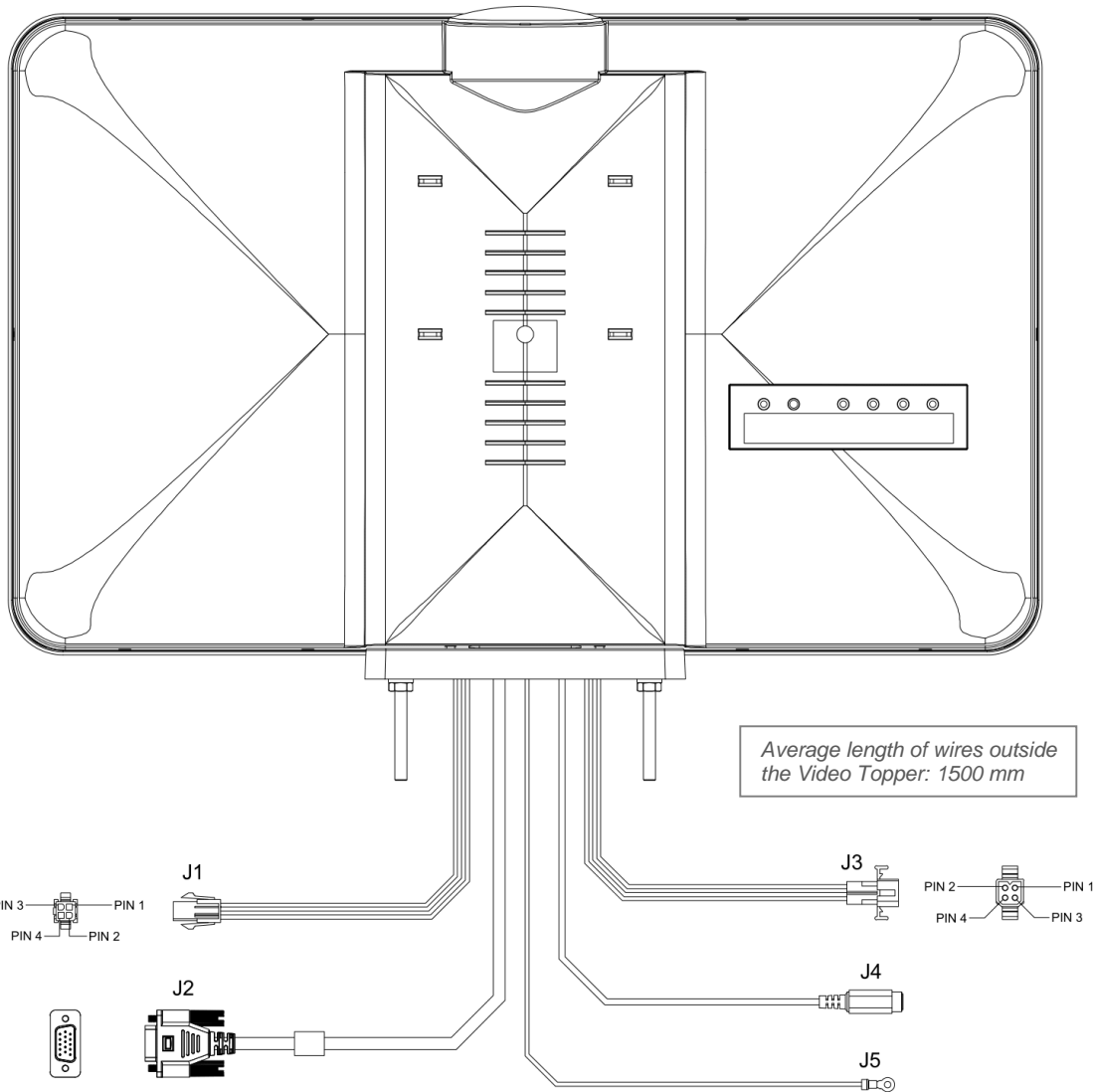
**Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.**

### 3. Model configurations

103-XXXXXXXXXX				Standard
103	Product group LCD toppers			
XX	Model video topper	02	Topper with LCD	x
		03	Topper without LCD ( light box )	
XX	Tower light	00	No Tower light	x
		72	Classic tower light chrome 2 lamp	
		73	Classic tower light chrome 3 lamp	
		82	Classic mini tower light chrome 2 lamp	x
		83	Classic mini tower light chrome 3 lamp	x
X	Bezel	0	Black bezel	x
		8	Chrome bezel	x
X	RGB	0	No RGB	
		1	Surrounding RGB LEDs incl. controller	x
		2	Vertical RGB LEDs incl. controller	
		3	Horizontal RGB LEDs incl. controller	
		4	Surrounding RGB LEDs only	x
		5	Vertical RGB LEDs only	
		6	Horizontal RGB LEDs only	
		7	Surrounding indiv. addr. RGB LEDs	
X	DVI or VGA loom	1	VGA loom	x
		2	DVI loom	x
		3	DVI – HDMI out loom	
		4	DVI – DisplayPort out loom	
XXX	Standard/Custom	000	Standard version no front plate	
		001	Standard version standard front plate	x
		002	Front plate vertical LEDs only	
		003	Front plate horizontal LEDs only	
		004-999	Custom versions	

### 4. Connections

The Video Topper is complete with several cables to connect into your installation. The configuration of your Video Topper may affect the cables used.



Connector	Function	Pin Number				Type
		1	2	3	4	
J1	RGB LED Strip	+12Vdc	Green	Red	Blue	Molex Mini-Fit Jr. 39-01-2041
	Wire Color	Black	Green	Red	Blue	
J1	Indiv. addr. LED Strip	GND	DATA	+5Vdc		Molex Mini-Fit Jr. 39-01-2041
	Wire Color	Black	Green	Red		
J2	TFT LCD					VGA / DVI / HDMI / DP
J3	Tower Light	+12Vdc	Middle Lamp	Bottom Lamp	Top Lamp	Molex 03-09-2040
	Wire Color	Black	Red	Blue	Yellow	
J4	Power in					DC Plug Contra 2,35mm
J5	Ground wire					Ring terminal (3mm / M3)

**Video**

When an LCD monitor is included in your Video Topper, connect it with the video signal cable (VGA, DVI, HDMI or DisplayPort). HDMI or DisplayPort is converted to DVI inside the Video Topper.

**RGB LED strip**

If you have chosen to supply your own RGB LED controller, connect the LED strip using a receptacle which fits the Molex 39-01-2041 Mini-Fit Jr plug.

**Individual addressable LED strip**

This is an alternate strip instead of the standard RGB LED strip. Connect the LED strip using a receptacle which fits the Molex 39-01-2041 Mini-Fit Jr plug.

**Tower Light**

When a Tower Light is mounted on your Video Topper, connect it using a receptacle which fits the Molex 03-09-2040 plug.

**Power**

To power the monitor and / or RGB LED controller, connect 12Vdc using a power supply with a 2,5mm power plug. Recommended power supply: 150-0072.

**Grounding**

Use the ground ring to ground the Video Topper. Depending on your configuration; the LCD monitor, Video PCB, RGB LED controller, Tower Light and (chrome) bezel are grounded.

**5. RGB LED Operation**

Based on your configuration, the Video Topper comes with or without an RGB LED controller.

**Video Topper with controller**

Your Video Topper is included with an RGB LED controller and comes with a matching RF remote controller. The remote controller allows you to turn the light strip on or off and adjust the lightning. Several options are available, such as jumping or fading colours as well as showing a static colour. The intensity of the lightning and the speed of rotating colours can be changed using the intensity and speed buttons.



**Video Topper without controller**

You have chosen to supply your own RGB LED controller. Connect your controller to the installed LED strip using a receptacle which fits the Molex 39-01-2041 Mini-Fit Jr plug. See the corresponding manual of your controller for instructions of use.

## 6. Monitor specifications

### Panel

Manufacturer	Part No.
LG	LM195WD2-SLA1

### Absolute Maximum Ratings

Item	Unit	Min	Typical	Max	Remarks
Operating Temperature	°c	0	-	50	
Storage Temperature	°c	-20	-	60	
Operation Humidity	%	10	-	90	
Storage Humidity	%	10	-	90	

### Input characteristics

Description	Signal	Unit	Min	Typical	Max	Remarks
	Input	VDC	11.4	12	12,6	
	Consumption	A		1,9		
RGB Input						
	Analog RGB	VPP	0	0.7	-	
	Sync	VDC	0	5	5.5	
	H Frequency	KHz	48	60	76	
	V Frequency	Hz	48	60	76	
DVI-D Input						
	DATA/CLK	VPP	450	500	900	

### Display Characteristics

Item	Unit	Specifications
Screen Diagonal	[inch]	19.5
Active Area	[mm]	433.92(H) x 236.34(V)
Pixels		1600x900
RoHS Compliance		RoHS Compliance

### Optical Characteristics

Item	Unit	Conditions	Min.	Typ.	Max
White Luminance	[cd/m2]	Center point	200	250	-
Contrast Ratio			700	1000	-
Response Time	[msec]	Gray to Gray	-	14	25
Viewing Angle	[degree]	Horizontal (Right)	170	178	-
	[degree]	CR = 10 (Left)			
	[degree]	Vertical (Upper)	170	178	-
[degree]	CR = 10 (Lower)				

### Signal Input (Analog RGB, TMDS(DVI))

Item	Description	Resolution
Resolutions	XGA	1024x768
	720P (HD)	1280x720
	WXGA	1366x768
	HD+	1600x900

## 7. Monitor Operation

**Color LED:** This LED shows the state of the controller.

- Green is the “normal state”.
- Red is the “Off mode”. (Can’t find Sync. signals)
- Amber is the “DPMS mode” (*Display Power Management Signaling*).

**PC Settings:** The PC needs to be set to an appropriate graphics mode that has the same resolution as the LCD panel to have clear screen image. The vertical refresh rate should be set to one of 56~75Hz, non-interlaced signal.

**LCD display System Settings:** The OSD (On Screen Display) provides certain functions to have clear image and others. This board supports 5 buttons OSD operation as a standard. The control functions defined on OSD operation are as below.

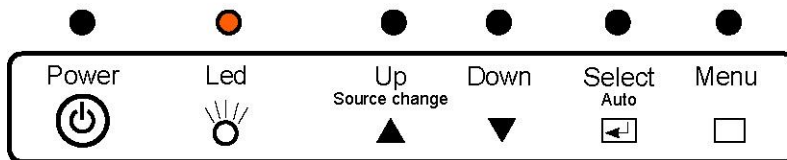
**PC Graphics Output:** Signal quality is very important. If there is noise or instability in the PC graphics output, it may result in visible noise on the display. Refer to the graphic modes table in specification section for supported modes. Non-interlaced & interlaced video input is acceptable.

**VGA or DVI-D cable:** See ‘Chapter 4 – Connection’.

**Power supply:** See ‘Chapter 4 – Connection’.

**Power on:** Switch on the monitor by using the on/off switch on the OSD control buttons.

**PC Setting:** The controller has been designed to take a very wide range of input signals. However, to optimize the PC’s graphic performance, we recommend choosing 60Hz vertical refresh rate. This will not cause screen flicker.



The chosen OSD settings will be stored in memory. The OSD menu can be cleared from the screen by moving the selection bar to the EXIT MENU icon pressing the SEL button. The OSD menu will automatically be cleared from the screen after a few second of non-use.



## 8. OSD Menu

### [PICTURE]

PICTURE	
Brightness	80
Contrast	80
Sharpness	80

### [COLOR]

COLOR	
Color Status Management	▶ NORMAL
Red	80
Green	80
Blue	80
Auto Color	▶ To Start

### [SCREEN]

SCREEN	
Auto Configure	▶ To Start
H Position	80
V Position	80
Clock	80
Phase	80

### [OSD]

OSD	
Language	▶ English
H Position	80
V Position	80
Transparency	80
OSD Time	10

### [SETUP]

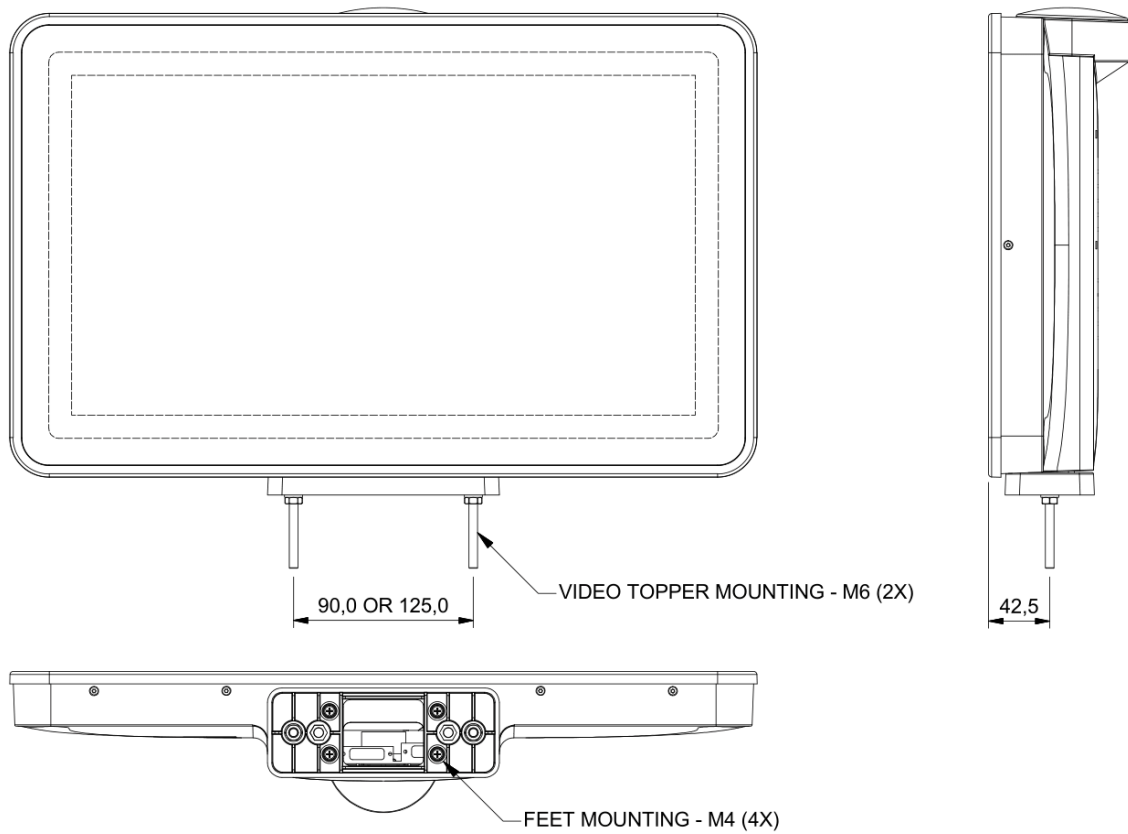
SETUP	
Source	▶ RGB
Factory reset	▶ To Start
Aspect	▶ Off
1024x768 60 Hz Version 1.05	

**OSD GUI Control Table**

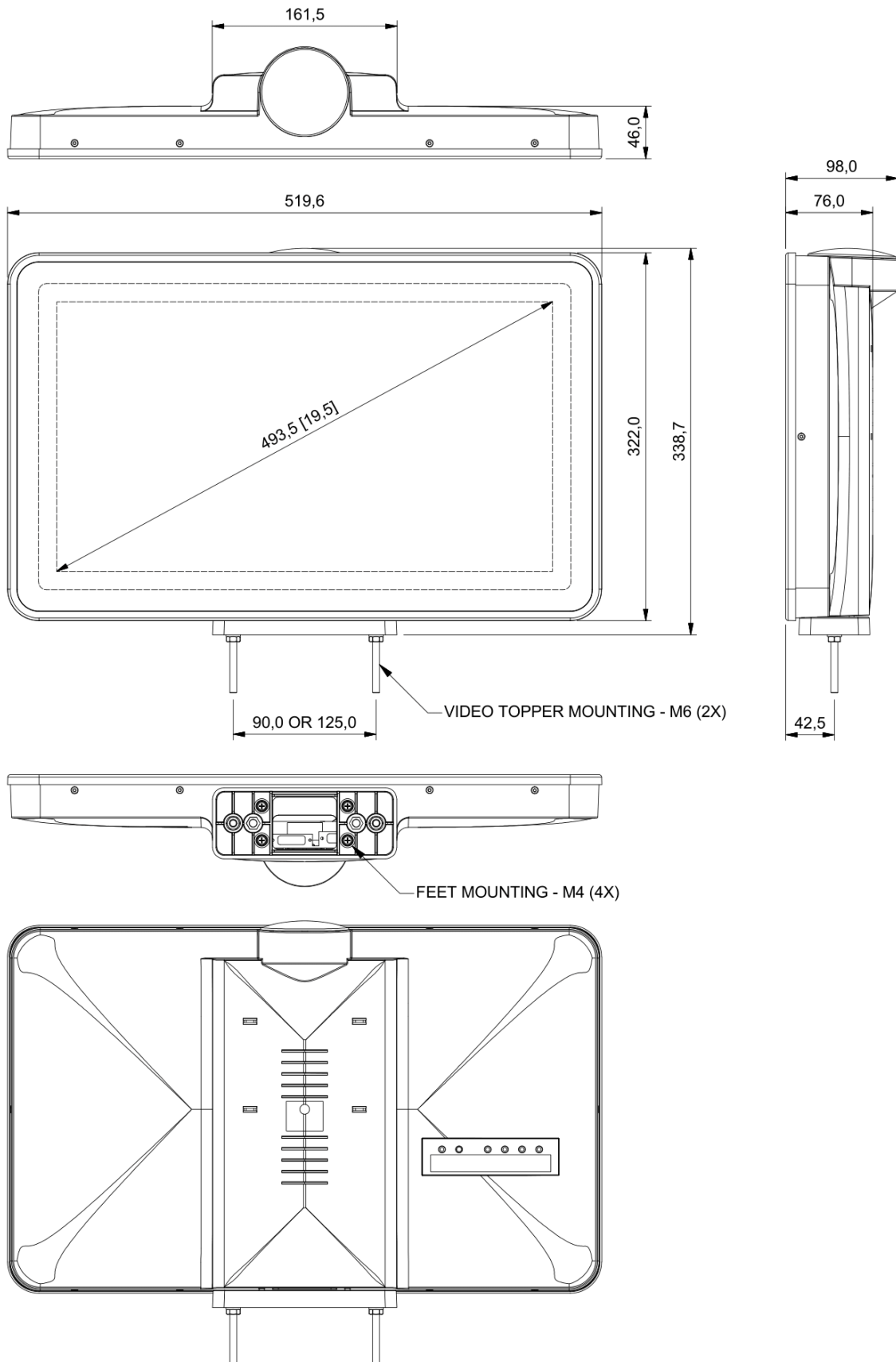
MAIN	SUB MENU	CONTROL	
Picture	Brightness	50(0~100)	
	Contrast	50(0~100)	
	Sharpness	2( 0 ~ 4)	
Color	Color Status Management	User(User, Warm, Normal, Cool)	
	Red	50(0~100)	PC ONLY
	Green	50(0~100)	
	Blue	50(0~100)	
	Auto Color	To Start	
Screen	Auto Configure	To Start	
	H Position	50(0~100)	PC ONLY
	V Position	50(0~100)	
	Clock	50(0~100)	
	Phase	30(0~100)	
OSD	Language	English(English, Deutsch, Francais, Italiano, Espanol, Korean)	
	H Position	50(0~100)	
	V Position	50(0~100)	
	Transparency	33 (0~100)	
	OSD Time	10(3~30)	
SETUP	Source	RGB, DVI, AUTO	
	Factory reset	To Start	
	Aspect	Off(On/Off)	

## 9. Mounting instructions

The Video Topper can be mounted with the mounting feet at the bottom. The feet includes two M6 mounting bolts, with a space of 90mm or 125mm between the bolts. Changing between these two dimensions requires re-assembly of the feet (four M4 screws at the bottom).



### 10. Dimensions



## 11. Accessories and replacement parts

Part number	Description	
150-0072	Power supply input 100/240V output 12V 5A	
22-0012-4	Power cable Euro lead 1.80M	
QL0025	Adh. 30 LED strip 12V RGB 5mtr	
QL0064-1	Controller for RGB LED strip <i>(not for indiv. addr. LED strip)</i>	
104-0041	Tower light cover	
11-1882	Classic mini T/L 2 lamp chrome	
11-1883	Classic mini T/L 3 lamp chrome	