



LED CHMSL BACK-UP CAMERA

Are you ready for FMVSS 111?



LED Centre High Mounted Stop Light (CHMSL) with built-in camera.

- High quality automotive grade camera delivers superior picture quality and a **170° viewing angle** (50' wide by 20' deep), **surpassing FMVSS 111 requirements.**
- LEDs illuminate 200ms faster than incandescent bulbs, meaning **faster braking distance response time.**
- **Guideline enabled camera** (red, blue, green and yellow lines) enhances driver rearview assistance and safety.
- **Night vision equipped** for nighttime visibility and safety.
- **Waterproof camera with IP68** environmental rating.
- Weatherproof CHMSL (IP65) with **flat back** is constructed with high quality automotive grade **lens that will not fade**, and meets **FMVSS 108 standard.**
- **CHMSL #84198** includes both a back-up camera and **built-in exterior courtesy lights**, for added safety and nighttime visibility when unloading or working outside the vehicle.



Part #84195
3rd Brake Light w/ Camera



Part #84198
3rd Brake Light w/ Camera
and Exterior Courtesy Lights

Ideal for: Truck Caps, Utility Vehicles, Cargo Vans and Light Duty Trucks.



Part #84194
Monitor Kit



Specialists in innovative lighting and electronic solutions for over 30 years.

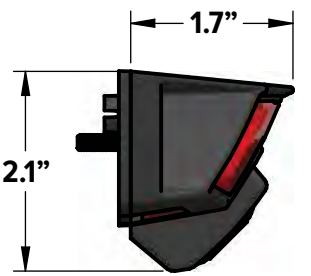
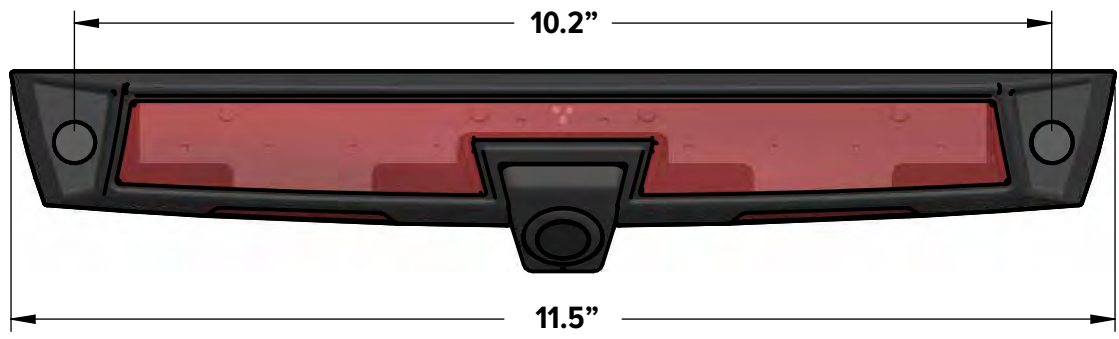
Part #	Description
84191	*KIT • LED CHMSL Back-Up Camera • Red Lens • Monitor
84192	*KIT • LED CHMSL Back-Up Camera • Clear Lens • Courtesy Lights • Monitor
84195	LED CHMSL Back-Up Camera • Red Lens
84198	LED CHMSL Back-Up Camera • Clear Lens • Courtesy Lights
84194	Monitor Kit • 7" TFT Monitor • 30' Extension Cable • Connector Cables • Mounting Hardware


* Kit includes: LED CHMSL Back-Up Camera, 7" TFT Monitor, 30' Extension Cable, Connector Cables & Mounting Hardware

CHMSL Specifications:	
Operating Voltage:	12Vdc
Operating Current:	0.17A
Power Consumption:	2W
Temperature Range:	-40°C to +85°C
Environment - IP Rating:	IP65
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Compliance:	FMVSS108

Camera Specifications:	
View Angle:	170°
Night Vision:	Yes
Operating Voltage:	12Vdc
Current Consumption:	110mA
Temperature Range:	-40°C to +85°C
Environment - IP Rating:	IP68
Guidelines Enabled:	Yes

Monitor Specifications:			
Screen Size:	7" with TFT Panel	Video Output:	Colour
Aspect Ratio:	16:9 Image	Video Input:	2-Way Video Input with 2-Way Reversing Cable
System:	PAL and NTSC Auto Switching	Operating Voltage:	12Vdc
Overall Dimensions:	7.5" x 5.25" x 2.25"	Temperature Range:	-20°C to +70°C RH95% Max
Resolution:	800 x 480 (RGB)	Storage Temperature:	-30°C to +80°C RH95% Max
Brightness:	450cd/m ²	Mounting:	Includes Bracket Hardware
Guidelines:	Red, Blue, Green & Yellow	Extension Cable:	30' Industrial Grade PVC Jacketed Video Cable w/ Steel Shell Swivel Locking Connectors
Video Output:	Colour	Connector Cables:	Yes



 Hamsar lighting and electronic products must be fused appropriately in all instances. If you are in doubt, consult with a Hamsar service representative at 1-800-567-5483 or email sales@hamsar.com.
NOTE: Improperly fused/installed product will invalidate the warranty.

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