

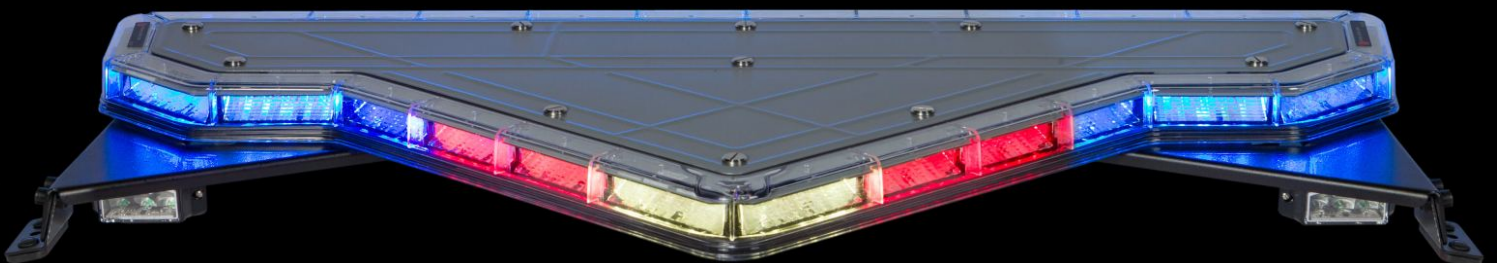


**FEDERAL SIGNAL VAMA**

*Protecting people and our planet*

# VALOR™

LED lightbar



# VALOR™

**VALOR™** lightbar is the first and only non-linear, low profile LED lightbar. A lightbar that increases visibility, optimizes performance, and reduces risk to any emergency situation. **SPECTRALUX™** provides a fully programmable range of color combinations for optimum warning capability to flood light performance.



**SAFETY AT THE CRITICAL ANGLES:** Valor V-shape was engineered to outperform at 45-degree and 90-degree angles, critical for intersection clearing.



**LEDs SOLARIS LIGHTS.** Solaris LED reflector design to significantly maximize the LED light source for full light coverage.



**SPECTRALUX™ MULTICOLOR LED TECHNOLOGY:** Provides the ability for a LED light head to change color. LEDs can change between red, blue, amber or white.



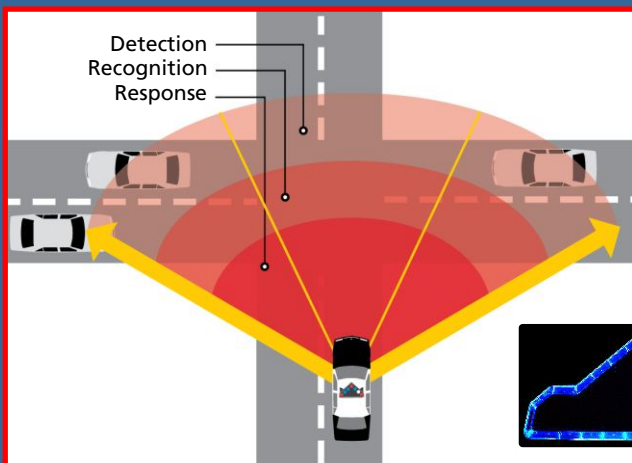
**ROC TECHNOLOGY:** Lineal circuit board-to-board connection which reduce the number of electrical connections in a lightbar.



**UNIQUE DESIGN:** Valor lightbar design is FEDERAL SIGNAL use exclusively due to European Union Community Design registration 001925753-0001.



**TWO LEVEL LIGHTS:** New mounting brackets system allows to install white TAKE DOWNS and ALLEY lights in a second level that do not interfere with the main lights.



The V-shape and low profile design illuminates the critical broader area at 45° and 90° intersection points.

In a moving situation as the emergency vehicle approaches and intersection, its lights and audible devices notify on-coming vehicles through three stages: detection, recognition and response.

Valor series lightbars improve response time in comparison to linear lightbars.

## Mounting brackets



The auxiliary lights installed in the mounting brackets allow to have two light levels without any interference with the main lights (sold separately).



Permanent mounting kit.



Hook-on mounting kit.



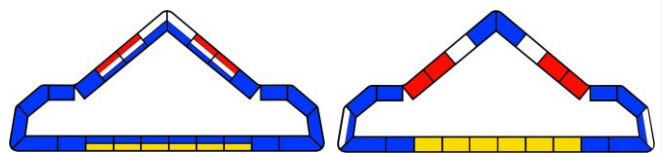
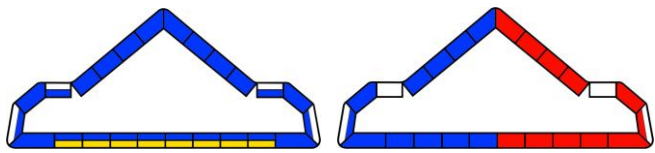
## MAIN FEATURES – VALOR

- 1 24 modules of LEDs Solaris with parabolic reflector composed by 3 LEDs (1 colour), 6 LEDs (2 colours) or/and 9 LEDs (3 colours).
- 2 Interfase box (included with the lightbars).
- 3 Connection by 19-ways roof connector.
- 4 Voltage 12V.
- 5 Lightbar control by two systems: CANBUS or ANALOG (switches).

Preselected models: **44" (1100mm)**

Analog control

CANBUS Control



+

Switches

+

Inputs box : 8235978-06



Control Head:

BCT2015-12

or

BCT2021-12



Valor + Interfase

+

Switches

=

Analog  
System

Valor + Interfase

+

Inputs box

+

Canbus Control Head

=

CANBUS  
System



# VALOR™



Valor lightbar with stop and TAKE DOWNS options.



Valor lightbar with ALLEY LIGHTS options.



Valor lightbar with SignalMaster option.

## Testing

Vibration test
Cold Temperature Exposure Test
Durability test
Dust Exposure Test, 4,5kg.
Federal Signal Reverse Polarity Protection Test
IPX9K Protection, high pressure and temperature resistant

## Approvals

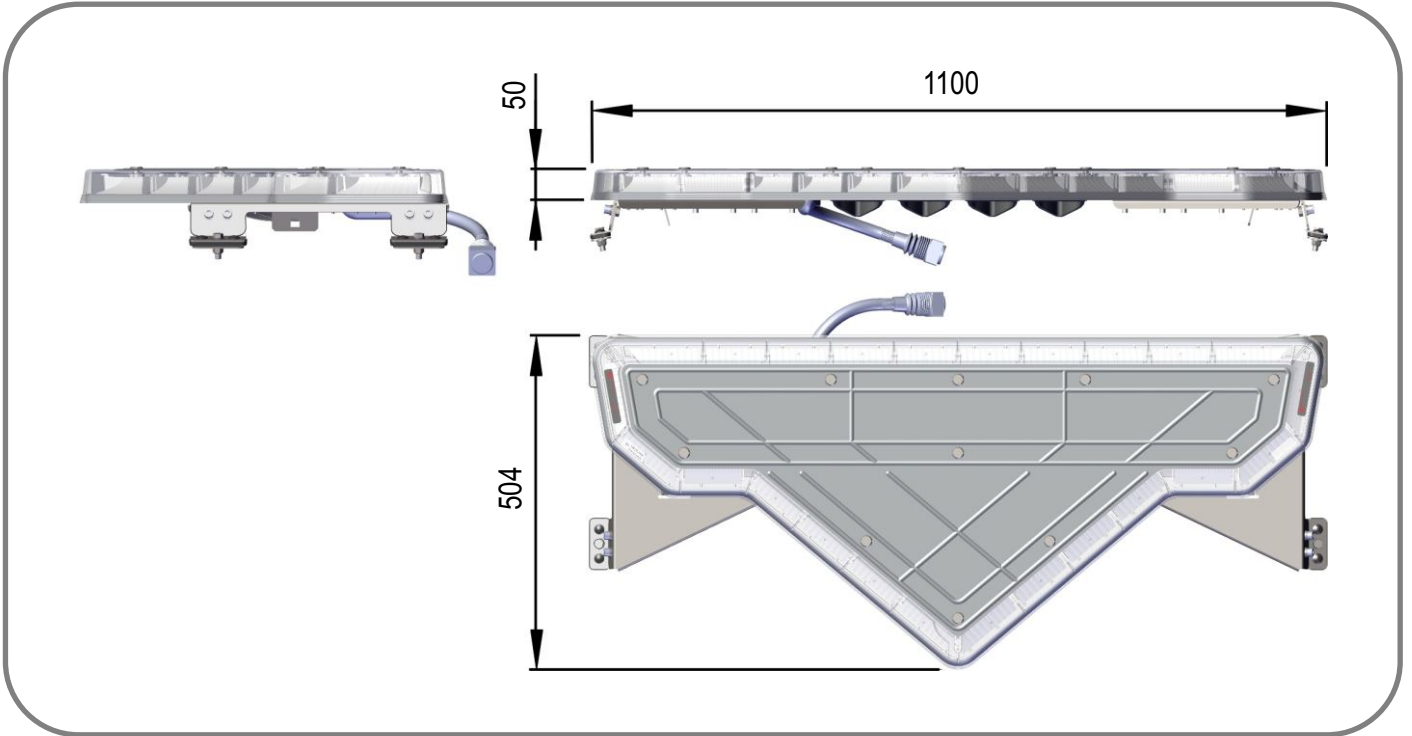
Valor Series (priority lights in blue) comply with R65 Regulations in Class 2.  
 Valor Series are according to R10 on Electromagnetic Compatibility.

## Technical Specifications

<b>Voltage:</b>	11,5Vdc to 14,5Vdc - Typical: 13,8Vdc														
<b>Temperature of use:</b>	-40°C to 65°C														
<b>Current draw :</b>	(at 13,8Vdc) Standby mode: 250mA (no lights connected) Steady mode: add 1000mA by module R65 mod: add 300mA by module = 3A, the complete R65														
<b>Light output in candelas:</b>	<table border="1"> <thead> <tr> <th rowspan="2">Inclination</th> <th colspan="2">DAY MODE</th> <th colspan="2">NIGHT MODE</th> </tr> <tr> <th>Min.</th> <th>Max.</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>0°</td> <td>151</td> <td>473</td> <td>71</td> <td>236</td> </tr> </tbody> </table>	Inclination	DAY MODE		NIGHT MODE		Min.	Max.	Min.	Max.	0°	151	473	71	236
Inclination	DAY MODE		NIGHT MODE												
	Min.	Max.	Min.	Max.											
0°	151	473	71	236											
<b>LED colour:</b>	blue, amber, red and white														
<b>Technology:</b>	SOLARIS SPECTRALUX														
<b>Lens colour:</b>	Clear														
<b>Dimensions in mm:</b>	VALR44 - 1110 mm x 50 mm x 504 mm														
<b>Weight (without mounting brackets):</b>	11,6 kgs.														
<b>Weight (with mounting brackets):</b>	16 kgs.														



Dimensions Valor lightbar - 44" (1100mm) in mm



**VALOR**<sup>TM</sup>



# VALOR™

## HOW TO ORDER

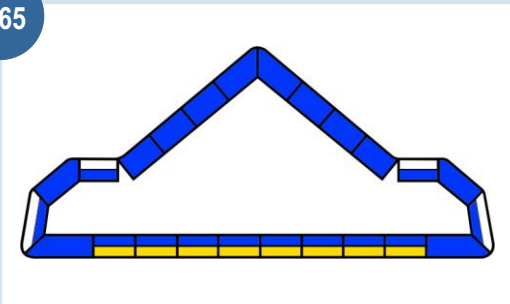
### ANALOG control Models (by switches)

#### Reference

#### Description

VALR44-2674993E

R65



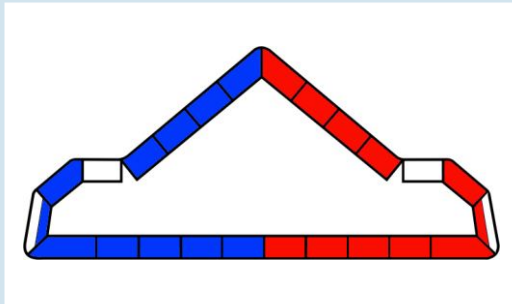
Valor Series Lightbar 44", composed by:

- \* Main lights: 24 Blue LEDs Solaris modules
- \* Secondary lights:
  - 2 white TAKE DOWN LEDs Solaris modules
  - 2 white ALLEY LIGHTS LEDs Solaris modules
  - 8 amber rear LEDs Solaris modules (Signalmaster function)
- \* 19 ways roof connector

Color configuration by module:

- \* 12 blue modules
- \* 4 blue and white modules
- \* 8 blue and amber modules

VALR44-2675002E



Valor Series Lightbar 44", composed by:

- \* Main lights: 10 Blue LEDs Solaris modules (left) and 10 Red LEDs Solaris modules (right)
- \* Secondary lights:
  - 2 white TAKE DOWN LEDs Solaris modules
  - 2 white ALLEY LIGHTS LEDs Solaris modules
- \* 19 ways roof connector

Color configuration by module:

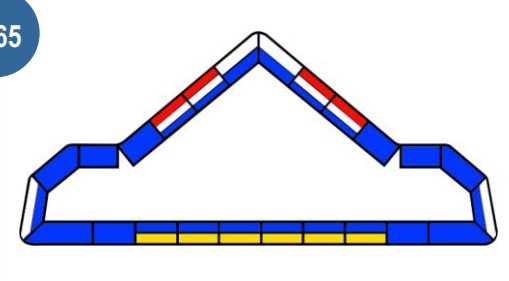
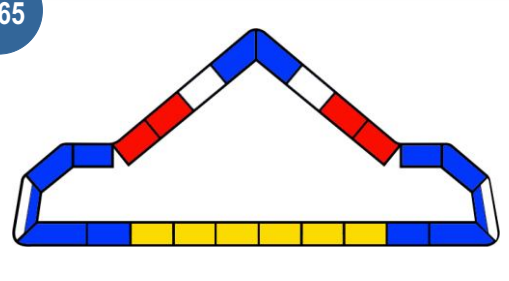
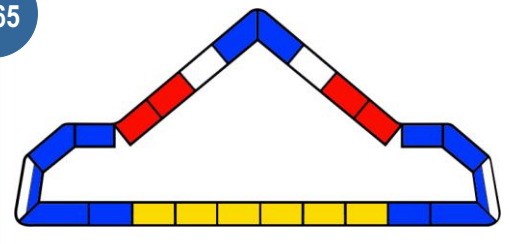

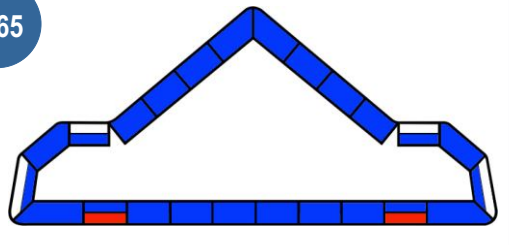
- \* 10 blue modules
- \* 10 red modules
- \* 2 white modules
- \* 1 blue and white module
- \* 1 red and white module





## HOW TO ORDER

### CANBUS control Models (Can be ANALOG control by using switches)

Reference	Description
<p><b>VALR44-2633966E</b></p> <p>R65</p> 	<p><u>Valor Series Lightbar 44", composed by:</u></p> <ul style="list-style-type: none"> <li>* Main lights: 24 Blue LEDs Solaris modules</li> <li>* Secondary lights: <ul style="list-style-type: none"> <li>- 6 white TAKE DOWN LEDs Solaris modules</li> <li>- 2 white ALLEY LIGHTS LEDs Solaris modules</li> <li>- 4 red front LEDs Solaris modules (stop function)</li> <li>- 6 amber LEDs Solaris modules in the rear (Signalmaster function)</li> </ul> </li> <li>* Cruise light</li> <li>* 19ways roof connector</li> </ul> <p><u>Color configuration by module:</u></p> <ul style="list-style-type: none"> <li>* 10 blue modules</li> <li>* 4 blue and white modules</li> <li>* 6 blue and amber modules</li> <li>* 4 blue, red and white modules</li> </ul>
<p><b>VALR44-PL</b></p> <p>R65</p> 	<p><u>Valor Series Lightbar 44", composed by:</u></p> <ul style="list-style-type: none"> <li>* Main lights: 12 Blue LEDs Solaris modules</li> <li>* Secondary lights: <ul style="list-style-type: none"> <li>- 2 white TAKE DOWNS LEDs Solaris modules</li> <li>- 2 white ALLEY LIGHTS LEDs Solaris modules</li> <li>- 4 red front LEDs Solaris modules (stop function)</li> <li>- 6 amber rear LEDs Solaris modules (Signalmaster function)</li> </ul> </li> <li>* Cruise light</li> <li>* 19 ways roof connector</li> </ul> <p><u>Color configuration by module:</u></p> <ul style="list-style-type: none"> <li>* 10 blue modules</li> <li>* 4 red modules</li> <li>* 2 white modules</li> <li>* 6 amber modules</li> <li>* 2 blue and white modules</li> </ul>
<p><b>VALR44-PMM</b></p> <p>R65</p>  	<p><u>Valor Series Lightbar 44", composed by:</u></p> <ul style="list-style-type: none"> <li>* Main lights: 12 Blue LEDs Solaris modules</li> <li>* Secondary lights: <ul style="list-style-type: none"> <li>- 2 white TAKE DOWNS LEDs Solaris modules</li> <li>- 2 white ALLEY LIGHTS LEDs Solaris modules</li> <li>- 4 red front LEDs Solaris modules (stop function)</li> <li>- 6 amber rear LEDs Solaris modules (Signalmaster function)</li> </ul> </li> <li>* Cruise light</li> <li>* 19 ways roof connector</li> <li>* <b>Prewired for auxiliary lights on mounting kit (auxiliary lights sold separately)</b></li> </ul> <p><u>Color configuration by module:</u></p> <ul style="list-style-type: none"> <li>* 10 blue modules</li> <li>* 4 red modules</li> <li>* 2 white modules</li> <li>* 6 amber modules</li> <li>* 2 blue and white modules</li> </ul>
<p><b>VALR44-0001E</b></p> <p>R65</p> 	<p><u>Valor Series Lightbar 44", composed by:</u></p> <ul style="list-style-type: none"> <li>*Main lights: 24 Blue LEDs Solaris modules</li> <li>* Secondary lights: <ul style="list-style-type: none"> <li>- 2 white TAKE DOWN LEDs Solaris modules</li> <li>- 2 white ALLEY LIGHTS LEDs Solaris modules</li> <li>- 2 red rear LEDs Solaris modules</li> </ul> </li> <li>* Cruise lights</li> <li>* 19 ways roof connector</li> </ul> <p><u>Color configuration by module:</u></p> <ul style="list-style-type: none"> <li>* 24 blue modules</li> <li>* 4 blue/white modules</li> <li>* 2 blue/red modules</li> </ul>

\* Controlled with the control head BCT500CB-GR



# HOW TO ORDER

Reference	Description
	<b>Converter ANALOG – CANBUS</b>
8235978-06	CANBUS Control box for Valor
8235631	Mini connection box MF8-TF8
	<b>Control heads</b> (Select one of the following models)
<b>BCT2015-12</b>	<b>15-BUTTON CONTROL BOX, for Valors Series</b> BUTTON 1: Emergency lights (Priority lights and siren) BUTTON 2: Priority lights BUTTON 3: Siren High Intensity BUTTON 4: Siren Low Intensity BUTTON 5: Siren manual BUTTON 6: Radio telephone BUTTON 7: Take down lights BUTTON 8: Alley Lights BUTTON 9: Stop lights BUTTON 10: Aux output Canbus Siren Signalmaster control and cruise light (central key)
<b>BCT2021-12</b>	<b>21-BUTTON CONTROL BOX, for Valor Series</b> BUTTON 1: Emergency lights (Priority lights and siren) BUTTON 2: Priority lights BUTTON 3: Siren High Intensity BUTTON 4: Siren Low Intensity BUTTON 5: Siren manual BUTTON 6: Radio telephone BUTTON 7: Take down lights BUTTON 8: Alley Lights BUTTON 9: Stop lights BUTTON 10: Aux output Canbus Siren Signalmaster control and cruise light (central key) Safety kit control
8216160GR	<b>BCT500CB-GR</b> for VALR44-0001E valor lightbar
	<b>Auxiliary lights for mounting kits</b>
<b>IMPAXX-FF-WH</b>	(2) Impaxx, Solaris LEDs lights in white, clear dome, without flasher, multitenion 10-30V, to be installed in mounting brackets as Take Down light
<b>IMPAXX-FL-WH</b>	(2) Impaxx, Solaris LEDs lights in white, clear dome, without flasher, multitenion 10-30V, to be installed in mounting brackets as Alley light
	<b>100W Siren amplifier</b>
2020269	<b>AS320DIG CAN BUS</b> 100W siren amplifier, international tones (wail, yelp, hi-lo), 1 auxiliary output programmed with Priority lights, wiring, 12V. Compatible only with BCT2000 and BCT500CB Series control heads. P.A not included
2020271	<b>AS320-24DIG CAN BUS</b> 100W siren amplifier, international tones (wail, yelp, hi-lo), 1 auxiliary output programmed with Priority lights, wiring, 24V. Compatible only with BCT2000 and BCT500CB Series control heads. P.A not included
	<b>Public address</b>
8235984	Public address kit with remote control. Volume and microfone functions control (for control head BCT2000)
	<b>Mounting Options</b>
8234204	<b>VALR-FT</b> Permanent mounting kit
8234205	<b>VALR-FP</b> Hook-on mounting kit (hook-on not included)
A-CT19	19 ways roof connector for Valor



ISO 9001:2008 Certified Company  
 Dr. Ferrán, 7  
 08339 VILASSAR DE DALT  
 BARCELONA - SPAIN  
 Phone 34 93 741 79 32  
 Fax 34 93 750 78 23  
 Email: marketing@vama.es