

# KAMELION-18

## RADAR SPEED FEEDBACK AND MESSAGE SIGN

Speed displays are an effective tool to influence driver behavior for the better. With its seven-color full matrix screen, the Kamelion 18 communicates road users in an educational way. This traffic calming device will have an immediate and lasting impact on excessive speeds, and it can also serve to improve several road safety issues.



PEDAGOGICAL TOOL



REDUCE SPEED



DATA COLLECTION



**KAMELION**  
Advanced electronic signage





## KAMELION-18 RADAR SPEED FEEDBACK AND MESSAGE SIGN

The Kamelion-18 is a 7-colors, full-matrix speed display sign with 640 x 480 mm horizontal screen and 460 mm (18") digits height. The specially designed radar allows the easy configuration of the speed display sign. More than 10 preprogrammed pictograms are available depending on the displayed speed. In addition, the radar allows data collection and RRFB activation on the panel, for excessive speeds.



### KAM-SMART Educational Speed Display

The KAM-SMART function makes configuration fast and easy. A digital screen is integrated into the radar, so the user car selects speed ranges, pictograms, data collection and strobe activation. The pictograms and color speed display create an educational interaction with the road user. Turning on a speed display has never been easier. If necessary, the KAM-TOOL software allows you to customize the pictograms and define the speed ranges according to a schedule.





# FEATURES OF THE KAMELION-18 RADAR SPEED FEEDBACK AND MESSAGE SIGN

## Adjustable stand-alone radar

Allow a perfect orientation of the radar with the traffic flow, increasing accuracy of data collection. With the screen turned off, it becomes a spy-mode traffic analyzer. Collect traffic data while displaying speeds or messages.

## Full matrix 640 x 480 mm (25" x 19") speed display

Displays up to 3 digits with a height of 457 mm (18"). Readable at a minimum distance of 250 m (820'). RGB screen which displays 7 colors. Screen text messages and pictograms are tricolor according to the displayed speed limit. The color of the numbers varies depending on the speed. Three possible types of displays. More than 10 preprogrammed pictograms. Pictogram or message customizable with software. Text up to six lines of 16 characters of 70 mm (2 3/4").

## Control menu on the radar

Allow you to quickly program speeds, pictograms, RRFBs and data collection. (Also programmable via Bluetooth)

## Two built-in super powerful strobes

Programmable if needed for excessive speeding drivers. Blink alternately to simulate an emergency light and encourage drivers to slow down. Compliant with the MUTCD standard.

## Variable message sign

As an option, the Kamelion-18 can be enhanced with the VMS software and become a Kamelion-VMS. This option makes it possible to use the Kamelion as a speed display or as a VMS.

## Anti-glare polycarbonate window

Improve visibility in addition to being unbreakable.

## Photocell

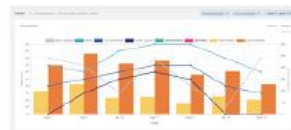
Adjusts brightness automatically.



## Navigate Traffic Cloud™

A CLOUD-BASED PLATFORM FOR THE ADVANCED REMOTE MANAGEMENT OF ELECTRONIC TRAFFIC SIGNS

You can now set up your electronic signage and collect road traffic information directly online! Access your data, monitor and change the display of your smart signs from your computer, tablet and mobile phone. With the intuitive Navigate Traffic Cloud™ interface, you can locate your equipment on a map and get instant data on volumes by vehicle type and average speed, and compare with allowable limits.



## Stat Expert Software

Traffic speeds by time slot.  
Speed variation (acceleration/deceleration).  
Classes (4) of vehicles (motorcycle, car, SUV and truck).  
Average speed and 85 percentiles.  
Number of vehicles per time slot.

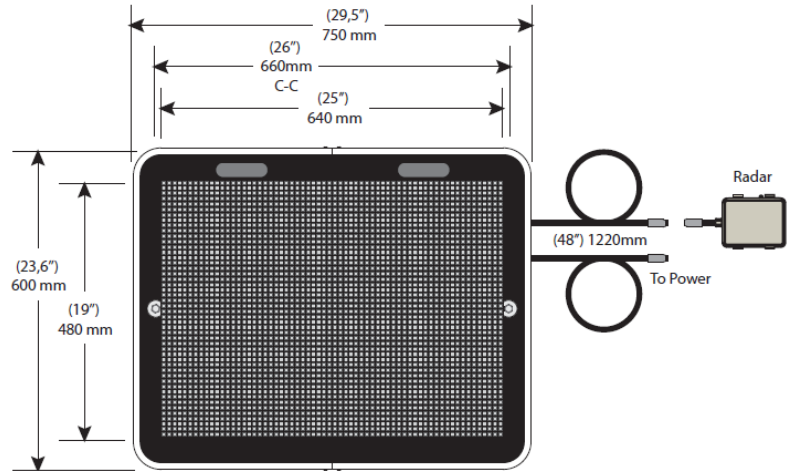




# TECHNICAL SPECIFICATIONS OF THE KAMELION-18 RADAR SPEED FEEDBACK AND MESSAGE SIGN

## Display

Standard	ATC
Screen format	640 x 480 mm (25" x 19")
Resolution	64 x 48 pixels
Angularity	50° x 100°
Visibility	300 m (1000')
Colors	RGB (red, blue, green) 7 colors
Text	Messages and pictograms are tricolor according to the speed limit displayed
Max Power Consumption	180 Wh
Voltage in	10,8 to 15 VDC
Connector	Snap-in, overmolded IP67, 10 mm OD
Communication	Bluetooth, 50m (160') range
Strobes	18 Watts ambers
Photocell	Variable according to ambient light
Text	Up to 8 lines of 12 characters of 70 mm (2 3/4")
Operating temperature	40 à +65°C (-40 à +149°F)

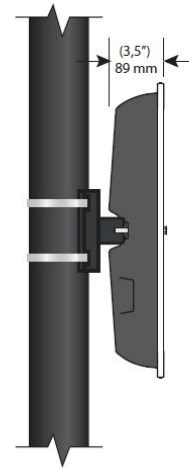


## Radar

Standard	FCC IC
Range	300 m (1000') adjustable
Angularity	12°H x 24°V
Data acquisition	Bidirectional
Precision	+/- 1 Km/H
Communication	Bluetooth, 50 m (160') range

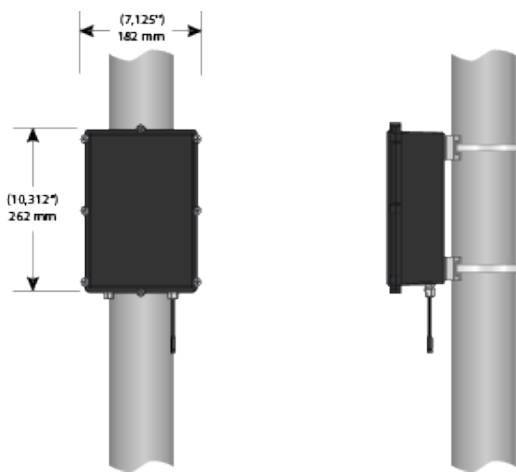
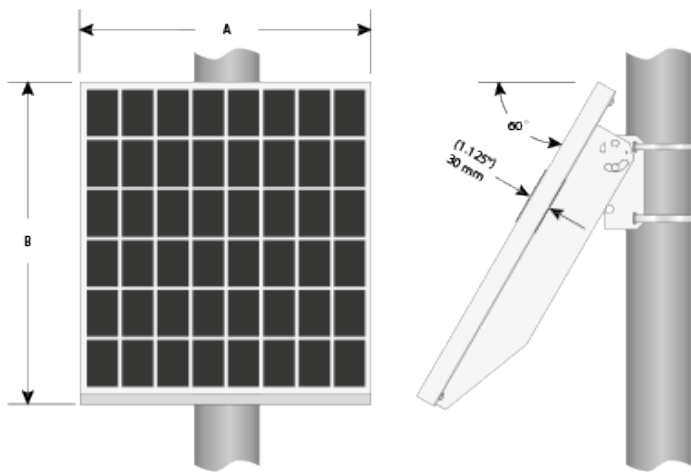
## Housing

Housing	Polyethylene (HDPE) with UV protection
Sign face	5 mm (.188") polycarbonate with antiglare
Environmental Protection	IP65
Weight	26 lbs (12 kg)



Product Number	Description	Box : Dimension - Weight	HSS Code
<b>Assembly Kit</b>			
#37659	KAM-18 Driver Feedback Sign with 100W solar power unit	48 x 37 x 12 in – 50 lbs + 37 x 28 x 11 in – 35 lbs	8530.90
#38104	KAM-18 Driver Feedback Sign with 100W solar power unit and CLOUD Modem	48 x 37 x 12 in – 50 lbs + 37 x 28 x 11 in – 35 lbs	8530.90
#38315	KAM-18 Driver Feedback Sign with AC/DC Power Converter	37 x 28 x 11 in – 50 lbs	8530.90
#38231	KAM-18 Driver Feedback Sign with AC/DC Power Converter and CLOUD Modem	37 x 28 x 11 in – 50 lbs	8530.90
<b>Options</b>			
#38316	Access and annual fees to the Navigate Traffic Cloud™ web platform	Included in kit box	N/A

**Included in kit :** Installation hardware for streetlight pole. Two (2) years Limited Warranty against defects in workmanship and materials.



#### Solar Power Unit (All-in-one)

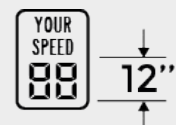
Solar Panel	100 W – monocrystalline
Battery	12.8 V – 40 Ah – LifePo4
Solar Charger	MPPT, 10 A, IP67
Connector	10 mm OD, male, 6", IP67
Operating Temperature	-40 to +165°F (-40 to +74°C)
Weight	16 kg (36 lb)
Width (A)	537 mm (21.13")
Height (B)	1010 mm (39.75")
Thickness	30 mm (1,125")

#### 120-240 V Current Converter

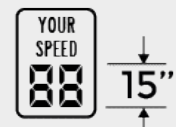
Material	Aluminium 2,5 mm
Size	262 x 182 x 90 mm
Finish	Black painted
Environmental Protection	IP67, NEMA 1,2,4,4X,12,13
Locking	With 8 bolts phillips M4
Weight	3 kg (6,5 lb)
Current converter	88 ~ 264 VAC, 100W
Battery charger	12V, PWM, 5A
Battery	12.8V – 9 Ah, Lithium LiFePo4
Connector	10mm OD, male, 6 po, IP67
Environmental Protection	-25 to +70°C (-13 to +158°F)

## VISIBILITY

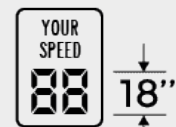
30<sup>-</sup>  
Kmh

50<sup>+</sup>  
Kmh

70<sup>+</sup>  
Kmh

A long reading time will have a positive impact on the behavior of road users. Higher the speed limit is, higher the digits must be in order to give drivers the time necessary to read messages and adjust their speed.