KAMELION-15
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-15 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.
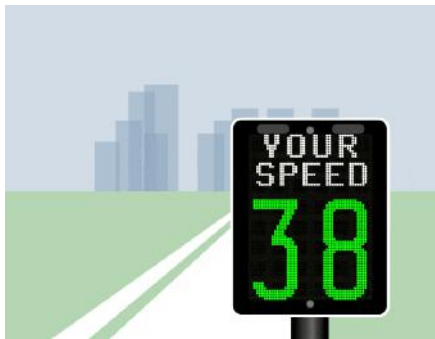
PEDAGOGICAL TOOL

REDUCE SPEED

DATA COLLECTION

YOUR SPEED
38

KAMELION
Advanced electronic signage

POWERED BY

TRAFFIC innovation inc

Designed & Manufactured in North America
HIGH QUALITY

KAMELION-15
RADAR SPEED FEEDBACK AND MESSAGE SIGN

The Kamelion-15 is a 7-colors, full-matrix speed display sign. With its 640 x 480 mm screen, it is possible to display digits with a height of 380 mm (15") while leaving enough space for a text box. The specially designed educational radar allows the configuration of the speed display sign. More than 10 preprogrammed Kam-Smart pictograms are available depending on the displayed speed. In addition, the radar allows data collection and RRFB activation, for excessive speeds. To prevent the speed display from becoming part of the urban environment and losing its positive influence, the kamelion-15 can be transformed. In a programmable time slot, the kam-Smart (Educational Speed display) speed display function can become a KAM-Sens (road awareness) or a KAM-Alert (Citizen communication).

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.
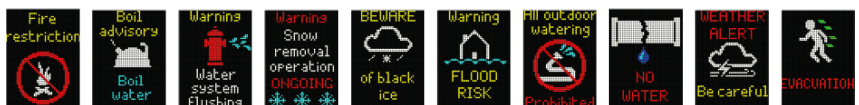

KAM-SENS Road awareness

The KAM-SENS function is included with the KAM-15 device. With this function, the device can relay awareness campaigns on various road safety issues. An internal calendar allows you to choose messages according to the time of day or week. This function makes it possible to alternate the use of the KAM-15 between the speed display mode and the awareness campaign mode, which catches the attention of road users.

KAM-ALERT Citizen communication

Kam-ALERT is available as an option with the KAM-15 device. With this function, the device can interrupt regular display to communicate important information to citizens. A cellular modem is added to the KAM-15 to enable instant communication with the office. From the Navigate Traffic Cloud platform, alert messages will be selected and displayed for the desired period. This is a very effective way to communicate quickly with thousands of road users.

FEATURES OF THE KAMELION-15
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 380 mm (15"). Readable at a minimum distance of 200 m (656'). 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.
1- Alternating number and message, centered
2- Number and message simultaneously, message at the top
3- Number and message simultaneously, message below.
More than 10 preprogrammed pictograms. Pictogram or message customizable with software. Text up to eight lines of 12 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.
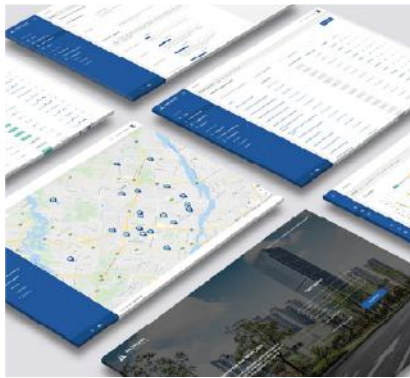
Variable message sign
As an option, the Kamelion-15 can be enhanced with the VMS software and become a Kamelion-VMS. This option makes it possible to use the Kamelion-VMS as a speed display or as a VMS.

Anti-glare polycarbonate window
Improve visibility in addition to being unbreakable.

Photocell
Adjusts brightness automatically.
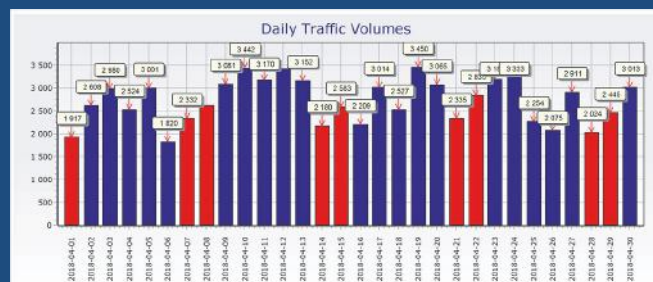
Navigate Traffic Cloud™

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.
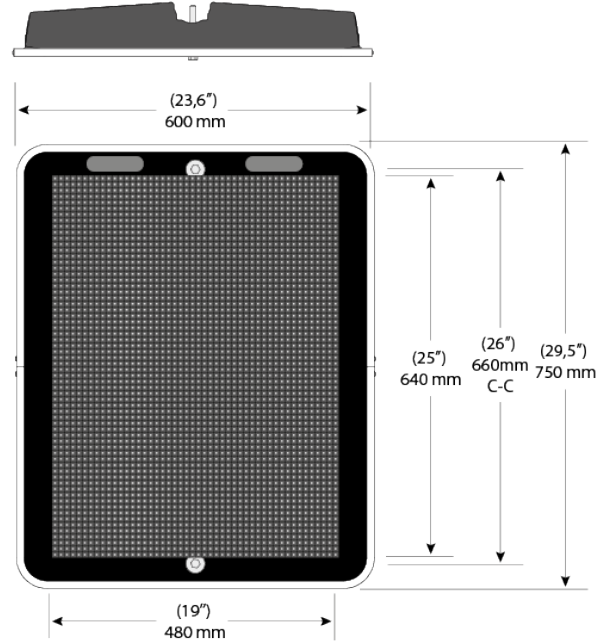Number of vehicles per time slot.

TECHNICAL SPECIFICATIONS OF THE KAMELION-15 RADAR SPEED FEEDBACK AND MESSAGE SIGN

Display

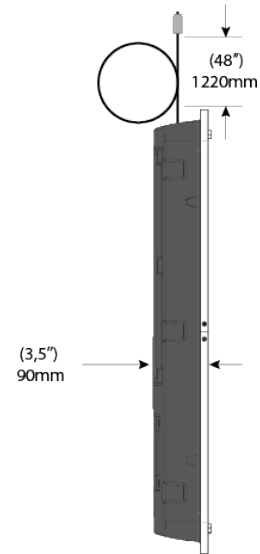|	
Standard	ATC
Screen format	640 x 480 mm (25'' x 19'')
Resolution	64 x 48 pixels
Angularity	50° x 100°
Visibility	300 m (1000')
Colors	RGB (red, blue, green) 7 colors
Text	Messages and pictograms are tricolor according to the speed limit displayed
Max Power Consumption	180 Wh
Voltage in	10,8 to 15 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

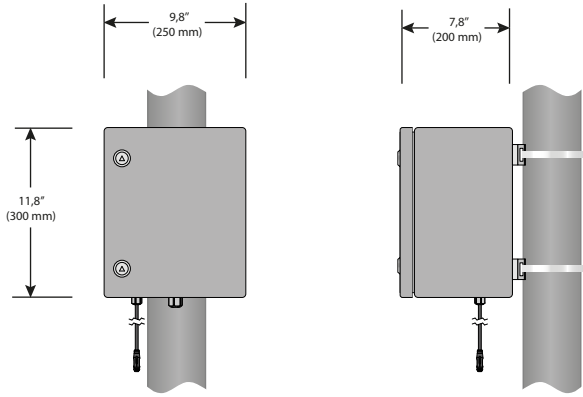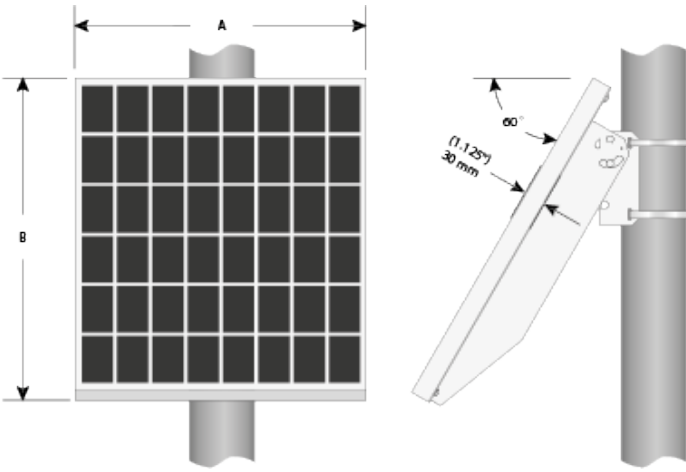|	
Standard	FCC IC
Range	300 m (1000') adjustable
Angularity	12°H x 24°V
Data acquisition	Bidirectional
Precision	+/- 1 Km/H
Communication	Bluetooth, 50 m (160') range

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
Assembly Kit			
#37659	KAM-15 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
#38201	KAM-15 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
#37766	KAM-15 Driver Feedback Sign with AC/DC Power Converter	37 x 28 x 11 in – 50 lbs	8530.90
#38202	KAM-15 Driver Feedback Sign with AC/DC Power Converter and CLOUD modem	37 x 28 x 11 in – 50 lbs	8530.90
Activation Options			
#37319	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.
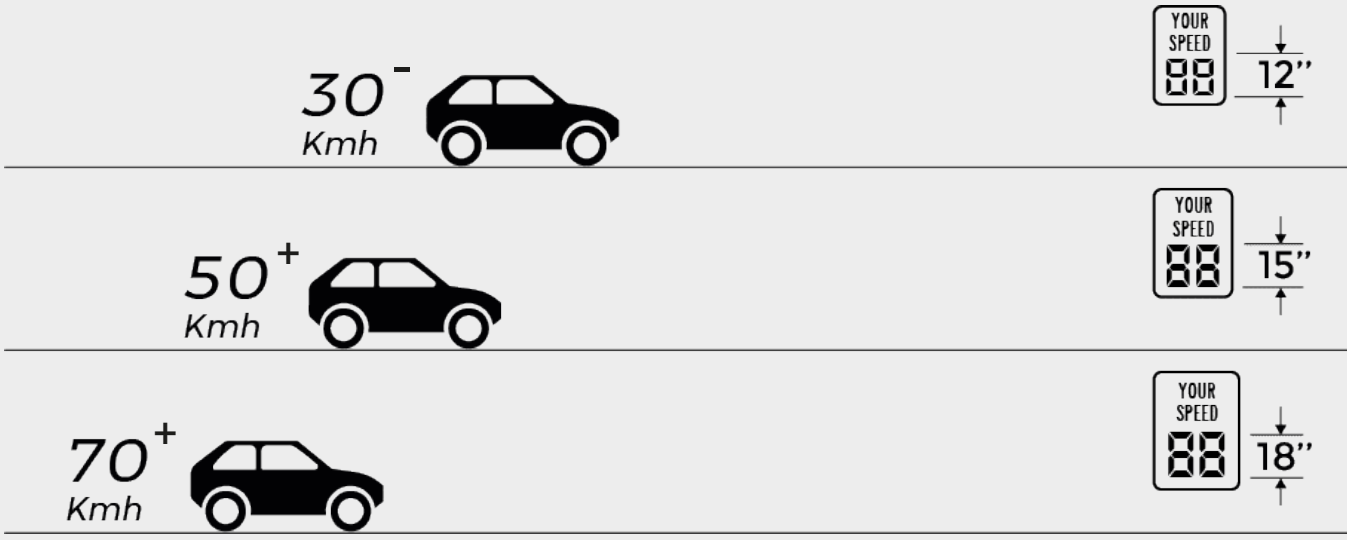
Solar Power Unit (All-in-one)

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 +165ºF (-40 to +74ºC)
Weight	16 kg (36 lb)
Width (A)	1010 mm (39.75'')
Height (B)	537 mm (21.13'')
Thickness	30 mm (1,125'')

120-240 VAC Electric Cabinet

Voltage in	120-240 VAC
Battery	AGM /12V - 38Ah
Battery charger	MPPT, 10 A, IP67
Connector	10mm OD, Female, 6'', IP67
Cabinet	Steel Gray Painted, IP66
Cabinet size	300 x 250 x 200 mm (11,8 x 9,8 x 7,8'')
Operating temperature	-40 to + 165ºF (-40 to +74ºC)
Weight	19 kg (42 lb)

VISIBILITY

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.