BID TABULATIONS RADAR SPEED DISPLAY SIGNS BID OPENING DATE 10-6-15	**MONITOR SYSTEMS**	**RU2 SYSTEMS, INC.**	**INTUITIVE CONTROL SYSTEMS LLC DBA ALL TRAFFIC SOLUTIONS**	**K & K SYSTEMS INC.**	**TRAFFIC PARTS INC.**	**TRAFFIC CONTROL CORP. DBA TRAFFIC SAFETY SYSTEMS CORP.**
	10737 COLEWOOD LANE DALLAS TX 75243	2631 W OGDEN RD MESA AZ 85215	3100 RESEARCH DR STATE COLLEGE PA 16801	687 PALMETTO RD TUPELO MS 38801	PO BOX 837 SPRING TX 77383	1728B WESTPARK CENTER FENTON MO 63026
PROPOSED MANUFACTURER:	MONITOR SYSTEMS	RU2 SYSTEMS, INC.	ALL TRAFFIC SOLUTIONS	K & K SYSTEMS INC.	TRAFFIC LOGIX	TRAFFIC LOGIX
PROPOSED MODEL:	PRODIGY 22L	FAST-350	SHIELD 15	RPM-18	SP450 W/ UNIVERSAL BRACKET & DATA SOFTWARE	SP450 SOLAR W/ BLUETOOTH, DATA PKG. & UNIVERSAL MOUNTING BRACKET
ADDITIONAL SHIPPING & HANDLING CHARGES (IF ANY):	N/A	$0.00	INCLUDED	$350.00	INCLUDED	INCLUDED
PROPOSED COST FOR 1 FULL SIGN ASSEMBLY:	$4,175.00	$4,680.00	$4,367.00	$3,976.02	$4,780.00	$4,925.00
PROPOSED COST FOR 2 OR MORE FULL SIGN ASSEMBLIES:	$8,350.00	$4,590.00	$8734.00 (DISCOUNT PRICE APPLIED ABOVE)	$7,952.04	$4,705.00	$4925.00 (PRICE BREAK AVAIL. FOR 5 OR MORE UNITS ORDERED AT SAME TIME)
NOTARIZED WORK AFFIDAVIT COMPLETED	Y	Y	Y	Y	Y	Y
E-VERIFICATION DOCUMENTATION (Y/N):	Y	N	N	N	N	N
COPY OF INSURANCE PROVIDED	Y	Y	Y	Y	Y	Y
TAX RECEIPTS OR NOTARIZED LETTER STATING NO REAL OR PERSONAL PROPERTY OWNED IN JEFFERSON COUNTY	Y	Y	Y	Y	Y	Y
COOPERATIVE BID FORM (Y/N)	Y	Y	Y	Y	Y	Y
COOPERATIVE CONTACT INFO:	Y	Y	Y	Y	Y	Y
COMPANY INFORMATION AND SIGNATURE	Y	Y	Y	Y	Y	Y
BID DEPOSIT REQUIRED	N/A	N/A	N/A	N/A	N/A	N/A
COMMENTS:	SEE ATTACHMENT	SEE ATTACHMENT	SEE ATTACHMENT	SEE ATTACHMENT	SEE ATTACHMENT	SEE ATTACHMENT

JEFFERSON COUNTY
DEPARTMENT OF ADMINISTRATIVE SERVICES
729 MAPLE ST / PO BOX 100
HILLSBORO MO 63050
WWW.JEFFCOMO.ORG

Invitation for Bid: RADAR SPEED DISPLAY SIGNS **Date Issued:** 9-2-15

BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, OCTOBER 6, 2015, AT 2:00 P.M. LOCAL TIME.

Specification Contact:
KRISTY MOSS
Department of Public Works
636-797-5569
kmoss@jeffcomo.org

Contract Contact:
VICKIE PRATT
Department of Administrative Services
636-797-5380

Mail (3) Three Complete Copies With Vendor And Bid Information As Shown In Sample:

SAMPLE ENVELOPE

VENDOR NAME
VENDOR ADDRESS
CONTACT NUMBER

DEPARTMENT OF THE COUNTY CLERK
JEFFERSON COUNTY MISSOURI
729 MAPLE ST / PO BOX 100
HILLSBORO MO 63050-0100

SEALED BID: *(BID NAME)*

Contract Term:
UPON APPROVAL OF THE COUNTY COUNCIL AND COUNTY EXECUTIVE

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for one additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

Vendor Information:

Company Name: Monroe Systems	Authorized Agent (Print): Ken Elder
Address: 10737 Gateway East	Signature: Ken Elder
City/State/Zip Code: Dallas TX 75243	Title: partner
Telephone #: 888-819-7023	Date: 9-19-15 Tax ID #: 05-0604431
E-mail: sales@MonroeSystems.com	Fax #

Traffic Data Collection	
Feature	**Specification**
Data software	License free and upgrades readily available. Software able to generate reports (for example, traffic speed compliance)for use in determining sign effectiveness.
Vehicle data logging capacity	Speed data 90 days (based on 24/ 7 operation)with circular buffer
Programmable display features	Minimum speed, speed limit, over speed, and maximum speed to display
Communications	Bluetooth class 1 connectivity min at 30 feet (FCC certified); RS232 port App for Android
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7, Windows 10
	Screen resolution: 1024 x 768 or better Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities : V1.0, V1.2, V2.0, V2.1 + EDC) Disk Space 16.5 MB min

Proposed Manufacturer: Monitor Systems

Proposed Model: Prodigy 22L

Provide any specification sheets for the proposed make and model with the bid submittal.

Include or note any additional shipping or handling charges.
Additional shipping and handling charges (if any): n/a

Proposed cost for one (1) full sign assembly: $ 4175.00

Full assembly will be sign, brackets, solar panel,,. etc necessary for the sign to be fully functional.

Proposed cost for two (2) or more full sign assemblies: $ 8,350.00

Comments: **Service and training done by local representative: McClain_Radar services, St Peters MO**

Full Matrix, highly visible LED displays with auto Ambient Light Adjustment, Vehicle Speed and Statistical Data Capture, SD card storage_•Bluetooth wireless communication interface •Standard Ethernet interface •26" x 29" x 3" Display_

The bid request is for the unit (s) only and not for any installation.

MONITOR SYSTEMS

PRODIGY 22L

Easily deployed in school zones, construction areas, high-accident and neighborhoods. Monitor Systems speed signs provide a strong measure of traffic management unmatched by others.

features

- Display Messages with text or graphics
- Under, over and max speed user settings
- Multi stage on/off scheduler
- Vehicle statistical data

options

- Video camera
- Solar Panel
- 7 inch LCD Android Tablet Remote
- Other Options Available

CONTACT US NOW

sales@monitorsystems.net www.monitorsystems.net Dallas, TX

1-888-819-7023

22L detailed specs

CREATE/DISPLAY MESSAGES

- Can display 4 different speed messages with text or graphics
- Under, over and maximum speed user settings
- Multi-stage on/off scheduler
- Includes programming software
- Vehicle statistical data
- Covert vehicle data capture
- Real-time clock
- On-board program storage
- Integrated bluetooth transceiver
- 2 lines of text, 6 characters long
- SD card memory for expandable storage
- 4 LED's per pixel
- Polycarbonate, impact-resistant clear window
- LED pulse width modulation for longer battery life
- Keyed on/off

DISPLAY

- 24.5"H x 43"L x 3.5"D
- Auto brightness (automatically adjusts for light conditions)
- Aluminium enclosure with graffiti-resistant, powder-coated finish
- Shatter-resistant polycarbonate display window for maximum protection
- Super bright, wide angle amber LED's
- Displays oncoming (approaching) vehicles only
- User selectable kph/mph Speed Displays and adjustable Radar Range/Sensitivity
- Speed violation alert: Messages are user defined, showing either a message or the violaters speed
- Maximum display time end-user defined, can be different text message with speed or blank (blanks display above setting)
- Bluetooth communication or rotary switches for changing speed and maximum display limits
- 12 volt DC power
- Removable rear access panel for servicing
- Lockable access door for easy removal of SD card
- Radar system fully enclosed within display
- PCB's conformal coated for additional moisture protection
- Input Voltage Tolerance: 9.0 - 15.5 volts DC
- Nominal Power 5w

INTUITIVE USER INTERFACE

- Compatible across wide variety of Windows platforms (XP, Vista, Windows 7, both 32 bit and 64 bit)
- Multiple available communication interfaces : Serial RS-232 connection
- Bluetooth connection
- 10Mbps ethernet connection
- User authorization required for connecting to the Variable Message Sign (VMS)
- Three user privilege levels available, all password protected
- Ethernet connection is protected with 128-bit AES encryption
- Configures all VMS operating parameters: VMS size – number of LED panels, LED dimming – fixed or automatic, automatic LED dimming table
- Ethernet address
- Bluetooth device name
- Scheduler to configure VMS operation times, multiple on/off cycles; hours, days and weeks
- SD card and flash memory
- Integrated image editor for managing VMS images: Allows in-place image editing
- Both static images and animations can be designed
- Image import / export to external image files, images can be grouped in image libraries for easier manipulation
- Arabic right-to-left text support
- Configures display modes (which images/animations will be displayed) for the following situations:
  1. No vehicle on the road
  2. Vehicle detected, at speed below defined limit
  3. Vehicle detected at speed over defined limit
  4. Vehicle detected, at speed over defined maximum speed
- Integrated file browser for remote access to the files stored on SD card
- Vehicle statistics logs
- Vehicle statistics log viewer and data analyzer
- Generates configurable PDF report with the vehicle statistics data

CONTACT US NOW

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Vendor Information:

RUZ Systems, Inc. — Company Name
Kenneth Brown — Authorized Agent (Print)
2631 W Ogden Rd — Address
[signature] — Signature
Mesa, AZ 85215 — City/State/Zip Code
Vice President — Title
480-982-2107 — Telephone #
25 Sept 15 — Date
Tax ID #
kbrown@ruzsystems.com — E-mail
480-982-5257 — Fax #

Bidders Initials: KB

Traffic Data Collection	
Feature	**Specification**
Data software	License free and upgrades readily available. Software able to generate reports (for example, traffic speed compliance)for use in determining sign effectiveness.
Vehicle data logging capacity	Speed data 90 days (based on 24/ 7 operation)with circular buffer
Programmable display features	Minimum speed, speed limit, over speed, and maximum speed to display
Communications	Bluetooth class 1 connectivity min at 30 feet (FCC certified); RS232 port App for Android RF fob for interface / 150' range
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7, Windows 10
	Screen resolution: 1024 x 768 or better Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities : V1.0, V1.2, V2.0, V2.1 + EDC) Disk Space 16.5 MB min

Proposed Manufacturer: RU2 Systems, Inc.

Proposed Model: Fast-350

Provide any specification sheets for the proposed make and model with the bid submittal.

Include or note any additional shipping or handling charges.
Additional shipping and handling charges (if any): -0 -

Proposed cost for one (1) full sign assembly: $ 4,680.00

Full assembly will be sign, brackets, solar panel,,. etc necessary for the sign to be fully functional.

Proposed cost for two (2) or more full sign assemblies: $ 4,590.00

Comments: _____

The bid request is for the unit (s) only and not for any installation.

RU2 FAST-350/360

RU2 Systems, Inc.

The Leader in Speed Display Technology

RU2 Fast-350/360

Radar Speed Display Signs

RU2 Systems has your pole mount traffic calming needs covered with our unique pole mount radar speed display signs. Mounted permanently or semi-permanently, these high intensity LED displays get the attention of oncoming drivers. The signs can be directly hard-wired to your electric service or optionally powered by a solar power system.

Each of these designs feature a full matrix high intensity LED display with 18" characters. This larger 18" character is appropriate for higher posted speeds (40 MPH+) and any longer line-of-sight locations where speeding is a problem.

Several Violator Alerts are available including an embedded "SLOW DOWN" message, our unique flashing Red/Blue bars, particularly effective at night and high intensity white LED strobe.

Optional timing apparatus can be provided to allow for multiple time of day, day of week, month of year timing routines. The 350's operating parameters can be set up with an RF remote control included with each sign.

The closely related RU2 Fast 360 features two and one-half 18" full matrix characters for KPH and racing applications. The leading "One" digit allows for readings up to 199.

For clients operating on International sign standards the Fast-360 can be fit with a traditional "Red Ring" sign overlay conforming to local iconography expectations.

RU2 Systems: The Industry Leader in Speed Display Technology

2631 North Ogden Road, Mesa, AZ 85215
[P] 480-982-2107 [F] 480-982-5237
Toll Free 877-982-2107
e-mail: info@ru2systems.com www.ru2systems.com

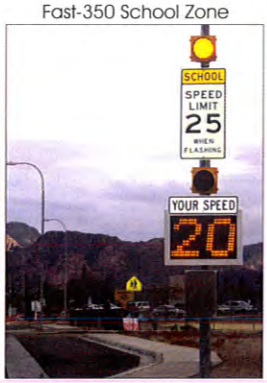
RU2 Fast-350/360 Pole Mount
Radar Speed Display Sign Specifications

Casework:
- 1/8" thick welded aluminum construction, front access to critical components
- White powder coat paint inside and out - custom colors available
- All stainless steel hardware
- "YOUR SPEED" sign included (MUTCD compliant)
- GE Lexan® shielding with a smoked, non-glare finish for easy reading even in direct sunlight
- Universal mounting brackets included; U-bolt, band or wall mount
- Weight: 53 lbs. incl. mounting hardware - on-grid application (Fast-350)

Electronics:
- K-band single directional radar uni
- Latest generation AlInGaP high intensity LED's
- 18" Full Matrix (rounded) Characters for quick recognition
- Minimum Speed Display, High Speed Blanking & Flashing Digit Violator Alert
- Automatic intensity adjustment to ambient light conditions
- 12 VDC operation, 12 VDC or 100-277 VAC, 50/60 Hz input
- Power consumption: 5.76W Nominal, 14.88W Peak
- Keyed On/Off switch
- Single cycle ON/OFF clock
- Sign defaults to last settings upon power up
- Built in on-screen diagnostics
- On-board Options & Diagnostics
  - Radar sensitivity
  - LED Operation Diagnostics
  - LED Intensity Diagnostics
  - MPH / KPH operation
  - Battery test
  - And more...

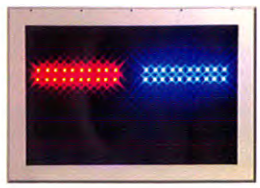
Hitch Mount

Fast-350 School Zone

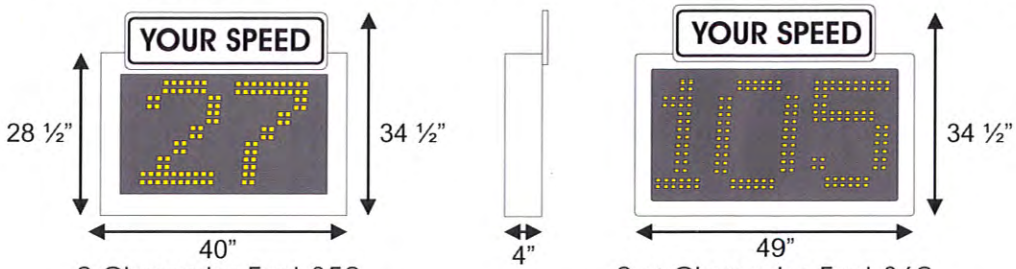


Fast-357 Roof Mount

Options:
- Solar Panels, 85W typical, with mounting bracket
- Data Collection
- Various Timing Options are available
- Violator alerts*
  - "SLOW DOWN"
  - Red-Blue Flashing Bars
  - White LED Flashing Strobe



* Violator alerts may be set in 1 MPH increments in any order of hierarchy or individually disabled.



2 Character Fast-350 2-½ Character Fast-360

Technical specifications are subject to change without notice.

WARRANTY:
RU2 Systems warrants their LED Displays for Five Years. The Radar Gun is warranted for Two years. On-site labor is not included. However, parts are repaired within five business days of receipt, and include ground-shipping expenses. Warranty does not include physical damage from misuse or vandalism.

RU2 Systems, Inc.
2631 N. Ogden Road
Mesa, AZ 85215

[P] 480-982-2107 [F] 480-982-5237
Toll Free 877-982-2107
www.ru2systems.com

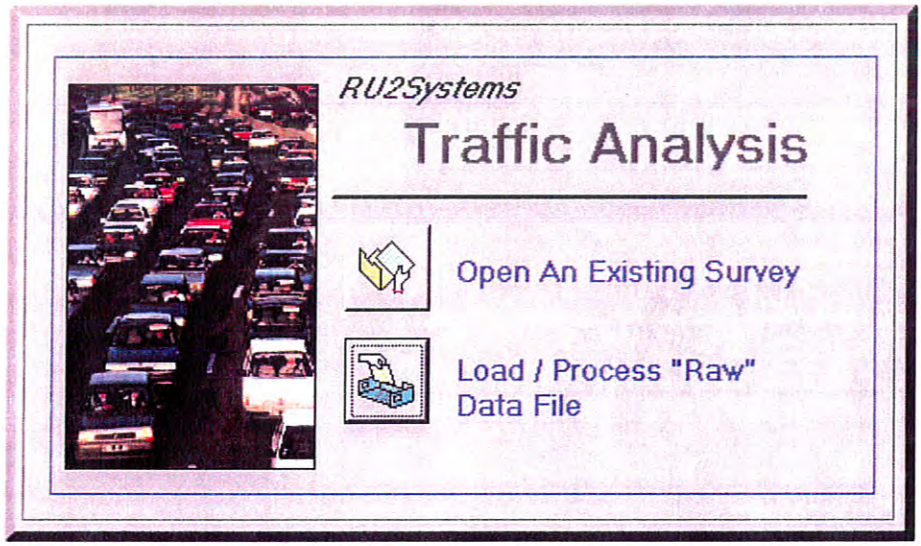
Rev. 12 March 13

DATA COLLECTION SYSTEM

RU2 Systems, Inc.

The Leader in Speed Display Technology

RU2 Traffic Count
Data Acquisition System & Software



RU2 Systems data collection platform uses non-contact technology so that deployment of pneumatic tubing is not required. The acquisition package utilizes the streaming data acquired from the radar gun. Advanced proprietary algorithms filters and analyzes the radar data stream to determine what is and is not a discrete target. Each oncoming vehicle's speed is recorded with a time/date stamp. This methodology provides moderate to excellent accuracy somewhat dependent on environmental variables as all single-gun systems are. Its best application is for determining peak load times and violation concentrations for complaint verification and scheduling deployment of traffic enforcement officers.

The collected data is saved on a Secure Data (SD) card and can be downloaded to any* computer with the provided card reader. The data can then be analyzed by RU2's Traffic Count Software package included with the system or software capable of accepting a comma delimited ASCII text file, such as Microsoft® Excel. Tabulated reports and charts include Survey Summary, Vehicle Count, Speed, and Time/date, 85th Percentile, 15 Minute, 1 Hour, Daily and Weekly analysis, etc.

*Windows 2000 or newer

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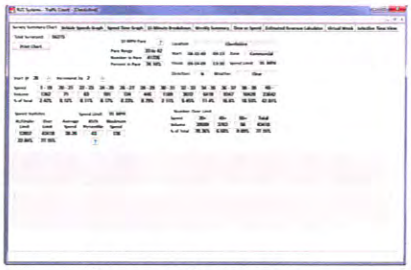
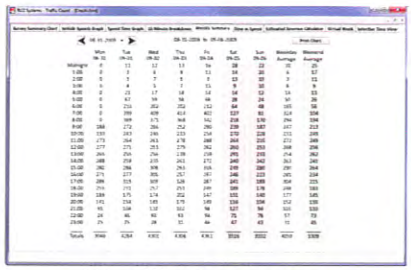
Toll Free 877-982-2107
e-mail: info@ru2systems.com www.ru2systems.com

RU2 Traffic Count Software

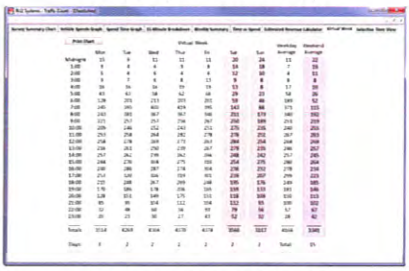


Survey Summary

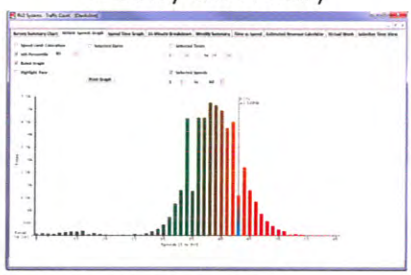


Weekly Summary

Revenue Calculator

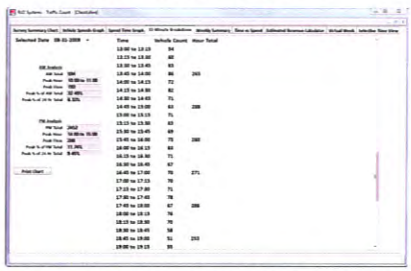


Virtual Week Study

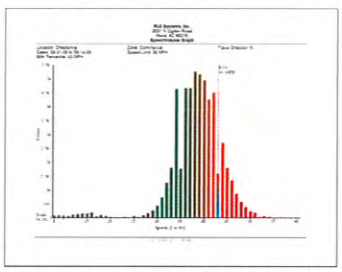


Vehicle Speed Graph

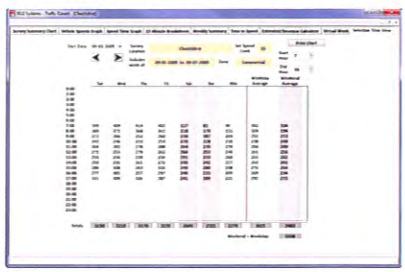
Speed Time Graph



15 Min./Hourly Breakdown



Vehicle Speed Print Out



Select Time View

Familiar Windows tabbed interface makes Survey Set-Up easy:
Opportunity to define Variable Display Scheme (upper/lower limits and increment), Reporting Officer, Start Date/Time, End Date/Time, Conditions, Zone Profile, Location, Direction etc.

Complete Reporting Capabilities

1) Survey Summary
   a. Variable Display Scheme
   b. Total Surveyed
   c. Incremental Speed Grid (Speed, Volume, % of Survey)
   d. Speed Statistics Summary
      I. Posted Limit
      II. At/Under Limit Qty. / %
      III. Over Limit Qty. / %
      IV. Average Speed
      V. 85Th Percentile
      VI. Maximum Speed
   e. 10 MPH Pace
      I. Pace Range
      II. Number in Pace
      III. % in Pace
   f. Number Exceeding Limit (+10. +20, +30..., Number & %)
2) Vehicle Speeds Graph
3) Daily Volume/Time Graph
4) 85Th Percentile Graph
5) 15 Minute Breakdown
   a. AM/PM Analysis
      I. Total
      II. Peak Hour
      III. Peak Flow
      IV. Peak % of AM
      V. Peak % to 24 Hr
6) Weekly Summary 4 Week Limit
7) Time vs. Speed
   a. Hourly numeric breakdown
8) Comparative Survey Analysis
   a. Virtual Week
   b. Dynamic/Survey Week
   c. Comparative Surveys
   d. Selective Time View (Time Slice)
9) Estimated Revenue Calculator
   a. Client defined fine schedule x Efficiency over Survey Results

Technical specifications are subject to change without notice.

How RU2 Systems Licenses "Traffic Count" Traffic Data Analysis software:
The organization is granted with its first "seat" purchase a site license for our software. RU2 does not restrict the number of computers the software is installed on within the organization. Subsequent "seats" do not cost as much as we are not charging repeatedly for the software. So for example, should an organization want 3 units each with data collection they would be charged for one "First Seat" and two "Additional Seats".

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Contract Contact:
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Vendor Information:

Intuitive Control Systems LLC LLC dba All Traffic Solutions	John William Painter
Company Name	Authorized Agent (Print)
3100 Research Drive	
Address	Signature
State College PA 16801	Director of Strategic Sales
City/State/Zip Code	Title
814 237 9005	25-1887906
Telephone #	Date / Tax ID #
jpainter@alltrafficsolutions.com	814 237 9005
E-mail	Fax #

Traffic Data Collection	
Feature	**Specification**
Data software	License free and upgrades readily available. Software able to generate reports (for example, traffic speed compliance)for use in determining sign effectiveness.
Vehicle data logging capacity	Speed data 90 days (based on 24/ 7 operation)with circular buffer
Programmable display features	Minimum speed, speed limit, over speed, and maximum speed to display
Communications	Bluetooth class 1 connectivity min at 30 feet (FCC certified); RS232 port App for Android
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7, Windows 10
	Screen resolution: 1024 x 768 or better Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities : V1.0, V1.2, V2.0, V2.1 + EDC) Disk Space 16.5 MB min

Proposed Manufacturer: All Trafffic Solutions

Proposed Model: Shield 15

Provide any specification sheets for the proposed make and model with the bid submittal.

Include or note any additional shipping or handling charges.
Additional shipping and handling charges (if any): included in price below

Proposed cost for one (1) full sign assembly: $ 4367

Full assembly will be sign, brackets, solar panel,,. etc necessary for the sign to be fully functional.

Proposed cost for two (2) or more full sign assemblies: $ 8734 discount price applied above

Comments: Please see attached Letter

The bid request is for the unit (s) only and not for any installation.

Shield Radar Speed Display

Our Shield family of Radar Speed Displays is the ideal choice when portability is paramount. These incredibly compact, lightweight signs can be mounted virtually anywhere. At only 12 lbs., including mount, the Shield 12 is the most durable, portable sign on the market. You'll get better results because you'll use it more often.

ALL TRAFFIC SOLUTIONS

A sign of the future.™

Product highlights

EXTREME PORTABILITY
Built for ease of use, it's the lightest, most portable sign available anywhere…and it still meets the MUTCD minimum 12" digit size.

SIMPLE, UNIVERSAL MOUNTING
In less than 30 seconds, one person can mount to U-channel, square channel, round poles, trailers, and hitch mounts using the integrated mounting system.

AMAZING BATTERY LIFE
Achieve up to several weeks of run time. A dedicated compartment allows all-weather battery replacement.

CLOUD-BASED EASE AND ACCESSIBILITY
Eliminate traffic data file management and instantly share reports over the Internet with others. Our enhanced TraffiCloud™ features (see reverse) and always-current user interface will keep you in contact with our signs and all your traffic management equipment. Make your traffic management system more productive and effective.

DURABLE CONSTRUCTION
The welded aluminum enclosure, concealed mounting hardware, shatterproof Lexan and graffiti-resistant powder-coat make it super tough.

Product specs

Product Specs
Shield 12
Digit Size: 12" Digits (MUTCD min.)
Dimension: 13.5" H x 15.5" W x 2.6" D
Weight: 12 lbs (incl. mount)

Shield 15
Digit Size: 15" Digits (3 metric digits)
Dimension: 17" H x 24" W x 2.6" D
Weight: 18 lbs (incl. mount)

Common Hardware Upgrades
Datalogging, Bluetooth, Violator Alert, Pictures, Metric

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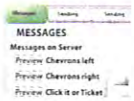
TraffiCloud™

While our best-in-class hardware will help improve your traffic flows, complimenting this equipment with our TraffiCloud™ helps improve your workflows. Leveraging a consistent interface across all your traffic management equipment, TraffiCloud™ provides a new level of awareness while reducing the amount of time needed to manage your equipment and information. In a world of increasing expectations and decreasing resources, TraffiCloud™ helps you achieve better outcomes in less time.

TraffiCloud™: Traffic Suite. All the features you need for effective and efficient traffic program management. Traffic Suite features can also be purchased individually.

MAPPING
Manage your entire program through an intuitive visual interface.

- Interactive map provides a window to all system information

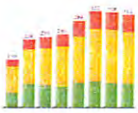


EQUIPMENT MANAGEMENT
Stop wasting time driving to equipment to update and monitor it.

- Check status and change settings from any Internet-connected computer
- Respond immediately to changing situations

ENFORCEMENT
Automate the collection of lidar captures

- Ensure data accuracy
- Minimize data collection time



REPORTING
Save time collecting, organizing, compiling and distributing information.

- Automated, daily uploads of new data into a centralized, SAS70-certified environment
- Identify trends to allocate resources and be proactive

IMAGE MANAGEMENT
Achieve greater awareness, including alarms or request generated images.

- *Capture images based on speeds, tampering, time intervals or upon request
- Review, edit and act on useful images

* *Images can be used to identify vehicle make and color, but are not alpr quality.*

PREMIERCARE
Get a perpetual warranty, damage insurance and remote diagnostics for duration of subscription

- 50% discount on accidental damage
- Real-time remote diagnostic monitoring

PARKING
Communicate parking availability more efficiently.

- Send cloud-based parking availability to variable message signs
- Direct vehicles to available parking

ALERTS
Specify when and whom you'd like notified upon occurrence of certain conditions.

- Receive email or text as events happen
- Be aware of low batteries, high speeds, tampering, congestion and more

DRIVETIMES
Sensor-free Time to Destination Technology

- Live travel times for custom routes
- Radically reduce the complexity and cost to design and maintain an advanced, dynamic message system

Trade In. Trade Up! Receive at least 50% Credit

Upgrade your old, used equipment – regardless of manufacturer or condition – and get access to the latest features and a perpetual warranty on a new, TraffiCloud™ enabled sign so you'll never have to worry again.

Offer applies to display only. Trailer and power supplies are not included.

- **Extreme Portability**
- **Simpler Operation**
- **Maximum Awareness**
- **Cloud-Based Convenience**

Contact All Traffic Solutions for more details.

Any manufacturer's speed or message display:

18" SpeedAlert

ATS SpeedSentry (any condition):

12" Shield

ATS SpeedAlert (any condition):

24" SpeedAlert

866-366-6602 • alltrafficsolutions.com
3100 Research Drive State College PA 16801 • fax: 814-237-9006

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Product Specification
Shield Radar Speed Display

Shield Speed Display

- 4 units to cover any application
  - Shield 12: 12" x 6" digits, 112 LED/digit
  - Shield 12s: Shield 12 with reduced range radar
  - Shield 15: 15" x 8" digits, 140 LED/digit
  - SpeedAlert 18: See SpeedAlert Specification
- Size, Weight without battery
  - Shield 12: 15.5" x 13.5" x 3.12", 12 lbs
  - Shield 15: 24" x 17" x 3.12", 18 lbs
- "YOUR SPEED" sign
  - High intensity prismatic reflective background
  - Shield 12: 15.5" x 13.5"
  - Shield 15: 24" x 8"
  - sign stores for compact storage and protects sign face, thumbscrews and tamper proof hardware included
  - 3.5" high MUTCD 'C' letters
- Universal mounting system: attach to pole, trailer or vehicle hitch mount
- LED pixels: Amber 595nm, 30 degree viewing angle, 100,000 hrs, black background, (MUTCD compliant)
- Local web-based management with Bluetooth or USB
- SmartApps Remote Management System with integral active cell modem
- Integral camera for awareness and alert triggered images: 640x480 daylight images
- Power saving circuitry and automatic dimming for ambient light conditions with adjustable dimming range and manual display brightness override
- Power Input, Max:
  - Shield 12: 12 VDC, 1.1 A, 15 W
  - Shield 15: 12 VDC, 1.5 A, 20 W
- K Band radar (24.15 GHz), FCC Certified, no license req'd, +-1mph accuracy
- Adjustable sensitivity radar, 12 degree square
- Radar pickup range:
  - Shield 12s: 300 ft., 5-105mph (8-168 kph)
  - Shield 12 & 15: 1000 ft., 5-105mph (8-168 kph)
- Conformal coating on all circuit boards
- Integral handle
- Weatherproof, NEMA 4, IP65 sealed electronics compartment; Drip proof, vented battery compartments
- 1/4" tinted, non-glare, UV stabilized polycarbonate face
- Entire face removable for service
- Tamper resistant mounting hardware pocket, hardware secured behind enclosure lock
- 14 ga aluminum chassis, white powder coat finish, black powder coat front for maximum contrast for digit visibility
- Protective polycarbonate corners also provide guide for YOUR SPEED sign storage
- Internal real time clock, time maintained with power disconnected
- Set time via wireless PDA, PC or sync with cell signal
- Sign firmware field and remotely upgradeable
- -40 to 160 F operating temperature range, 95% humidity non-condensing (-20F for Bluetooth communication)

Shield Operation Modes

- Speed Display: Display approaching vehicle's speed and record traffic speed and volume data
- Stealth or Display Off: Collect traffic speed and volume data with no display
- Dependent Message: Send speed data to a linked instALERT Variable Message Sign to display messages tailored to vehicle's speed
- Changeable speed limit sign

Shield Speed Settings

- Configure the following parameters via wireless PDA, PC or SmartApps Web-Based Management System:
  - Speed limit
  - Maximum speed displayed
  - Display on/off/specific mph activation
  - Violator strobe on/off/specific mph activation
  - Radar sensitivity (range)
- Speed limit sign operation
  - Change speed limit up to six times per day
  - Sign flashes when car passing over speed limit, blanks when car over maximum speed displayed

Shield Programming Methods

Program and monitor the sign three ways:

- SmartApps Web-Based Management System using integral cell modem for remote management; Traffic Suite includes following apps:
  - Equipment Management: Manage settings, monitor sign online
  - Reporting: Online data retrieval and management, analysis
  - Image Management: Online image retrieval and management of images from internal camera
  - Alerts: Notifications for low battery and tampering, high speed and congestion with optional radar, alerts can include images
  - Mapping: Visually manage equipment and data

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ALL TRAFFIC SOLUTIONS

Product Specification
Shield Radar Speed Display

- Premier Care: Enhanced warranty and real-time monitoring

Password protected system with three levels of access

- Web-Based Local Management System using USB or Bluetooth connection between PC and sign:
  - Manage settings
  - Local data retrieval and management
  - Local image retrieval and management from internal camera
- Wireless PDA Programming
  - PDA automatically connects to one sign in range, connection easy to switch between multiple signs
  - locates and identifies sign to which connected
- On-Board Programming
  - Set speed limit and display mode

Scheduling

- All days: schedule up to 6 different modes for up to 6 different time periods in a 24 hour day, repeats in each 24 hour cycle
- 7 days: schedule up to 6 different modes for up to 6 different time periods in a 24 hour day for each of 7 days, repeats in each 7 day cycle
- all scheduling resides on the sign – no external hardware necessary
- schedules can be saved on the PDA for backup or for different events
- program schedule via SmartApps, wireless PDA or PC
- once enabled, schedule remains in action until disabled, even through a power interruption

Shield Data Logging Option

- Reporting with Web based local or SmartApps automatic remote data download
- Analyze data with ATS SmartApps Reporting
- Local Management with Web-based interface
  - Download traffic data from sign with wireless PDA or PC, or USB cable to PC
  - 30 days of high volume data minimum with local downloads, Data collection rolls over when memory reaches capacity

Reports:

- Summary page with average and 85th percentile speed, average daily volume, 10 MPH pace speed, high and low speed, display mode
- Traffic counts by speed range and time of day over selected date range with 5 MPH resolution
- Vehicle counts by time range per day by hour
- Traffic counts by speed range and time of day by individual day
- Data exportable to standard .csv format for further analysis in Excel
- Remote Management with SmartApps Reporting App and cellular link
  - Daily data retrieval – near real time reporting, memory never full
  - All data in one database, available for analysis including compliance comparisons by location
  - Data visibility location from map

Reports:

- Summary page with average and 85th percentile speed, average daily volume, 10 MPH pace speed, high and low speed, display mode
- Traffic counts by speed range, full day and time of day over selected date range with 5 MPH resolution
- Vehicle counts by time range per day by hour
- Traffic counts by speed range and time of day by individual day
- Review one location or compare two locations for speed limit compliance
- Enforcement report showing highest speed and volume violators over all or selected locations where data collected

Compatible Shield Power Supplies

All Shield units can be powered interchangeably with any of the following power options; Unit can be outfitted to be powered by multiple sources selected in the field

- Shield 12, 12s and 15:
  - Capacity for 2 batteries in unit for extended portable use
  - 10.2Ah Lithium LFP Battery with built-in short circuit and reverse polarity protection circuitry, 1.5A 12.8 VDC output, 120VAC input automatic charger; Capacity for up to 2 batteries in unit for extended portable use
  - Solar panel assist: 20W or 40W solar panel and bracket, Solar controller panel w/18Ah or 26Ah lead acid battery, 6A 120VAC automatic charger optional
  - 100-220VAC AC power supply (6A 12VDC) in external NEMA 4 enclosure
- Shield 15 only: 16Ah Li-Ion LFP battery with connector, for longer unattended portable use, Capacity for up to 2 batteries in unit for extended portable use
- Shield 15 on trailer
  - Trailer batteries – 100, 235 or 470 Ah, solar option

Standard Shield System Components

- Shield Radar Speed Display
- Tamper resistant mounting plate and hardware
- Key
- USB cable
- Web based programming software for PC control

Optional Shield Components and Features

- SmartApps Web-based Remote Management System
- Padded carrying case
- Violator strobe, 12 white LED flash to alert violators

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Product Specification
Shield Radar Speed Display

- Metric display
  - Shield 12: 2 digit KPH display
  - Shield 15: 3 digit KPH display
- Fully compatible with Speed Dependent Messaging option when used with an instALERT Variable Message Sign - see Speed Dependent Message System section
- Bullet resistant face
- Tamper alarm – ATS-5 trailer
- Relay closure
  - 7A, 30VDC or 7A 120VAC max, 100mA 5VDC min, no power supplied, simply a contact closure
  - Trigger relay at specified speed with configurable duration from 1to 10 seconds per radar event

Shield Mounting Options

- Pole mount standard with included bracket, hardware
  - NCHRP 350 approved on 4" aluminum pole (SS-135)
- ATS-5 Trailer (Shield 15 only)
- Vehicle Hitch mount
  - Mounts sign 30" to bottom of sign from receiver tube (final height dependent on receiver height)
  - Fits 1 ¼" or 2" receiver, adapter included,½" hitch pin
  - Locking rotation adjustment on 15 degree increments over 180 degrees, +/- 5 degrees tilt
  - White powder coat finish
  - 24 x 30 speed limit sign and digits included for 5-65 mph speed limit signs
- Standard Folding Portable Post: (Sh12 and Sh15)
  - Folds for easy storage and portability
  - Sh12: 60" to bottom, 73" to top, add 13" for upper leg position
  - Sh15: 60" to bottom, 77" to top, add 13" for upper leg position

Speed Dependent Message System Option

Integrates the instALERT Variable Message Sign with any Shield Radar Speed Display to create a speed dependent messaging system.

- Different messages for each of 5 speed ranges
  - No cars
  - Cars <= speed limit
  - Cars > Speed Limit, < x
  - Cars > x < upper speed
  - Cars > upper speed
- Ranges dependent on speed limit setting only, so no message programming changes required with speed limit change to shift dependent message ranges.
- Independent Maximum Speed Displayed setting
- Speed display can display speed or be set to stealth mode with display blank during operation
- Speed Dependent Messages can be up to 3 screens each, including:
  - 1-3 line messages
    - 1 line: 24" H x 12.5" W characters, 4 per line
    - 2 lines: 10 1/4" H x 5.75" W characters, 8 per line
    - 3 lines: 7" H x 4" W characters, 12 per line
    - 2 lines: (1) 7" char, 12 per line, (1) 10 1/4" char, 8 per line
  - "YOUR SPEED" screen with 24" vehicle speed display digits and data supplied wirelessly by the speed display
  - "SPEED LIMIT" screen with 24" speed limit display digits and speed limit data supplied wirelessly by the speed display
- Wireless Bluetooth communication between Speed Display and instALERT Variable Message Sign. No communications cables run between the units.
- Program system locally or remotely with SmartApps Web based Management System or wireless PDA.
- Speed display and message sign work independently when not connected as a speed dependent message system. Disable communication, turn one unit off or move one unit out of range and units operate independently. No settings have to be changed on either unit to have them work independently.

Dependent Message System Mounting

- System can be mounted on the ATS-5 trailer, on a pole or hitch mount
- The Shield Speed Display can be removed from the trailer for independent operation on a pole or post using internal batteries
- The instALERT variable message sign is removable from the trailer and can be folded to be placed in the trunk of a police cruiser. It can be used on a portable post or vehicle hitch mount, powered by the vehicle or by an ATS POWERcase

Warranty

- 1 year warranty (3 months on Li-Ion batteries)
- Premier Care SmartApp
  - Warranty service fully covered
  - Product software upgrades free
  - Vandalism and accidental damage (non-warranty) at 50% off list price

Made in the United States of America

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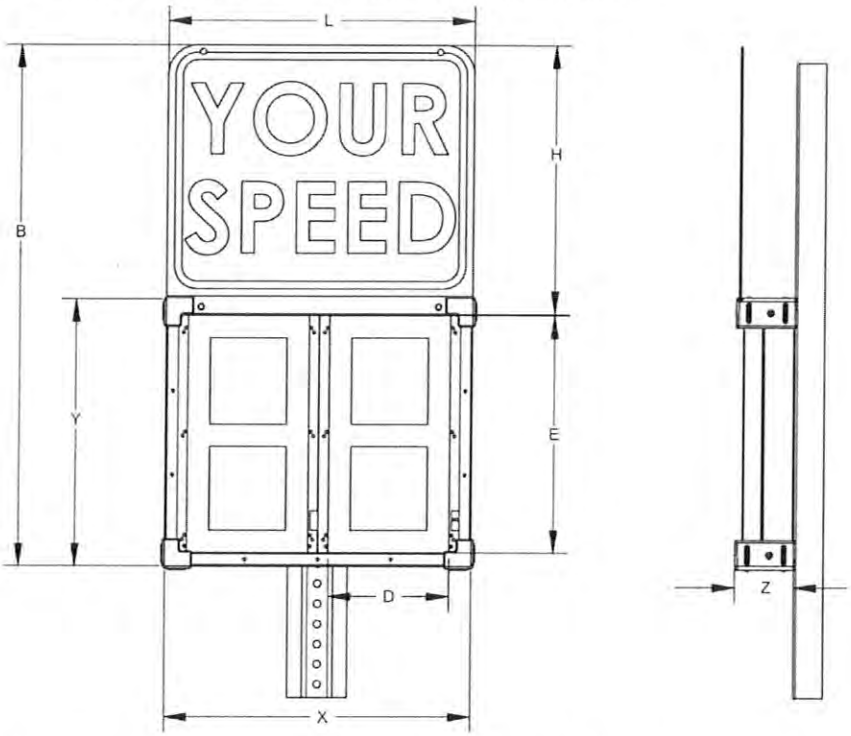
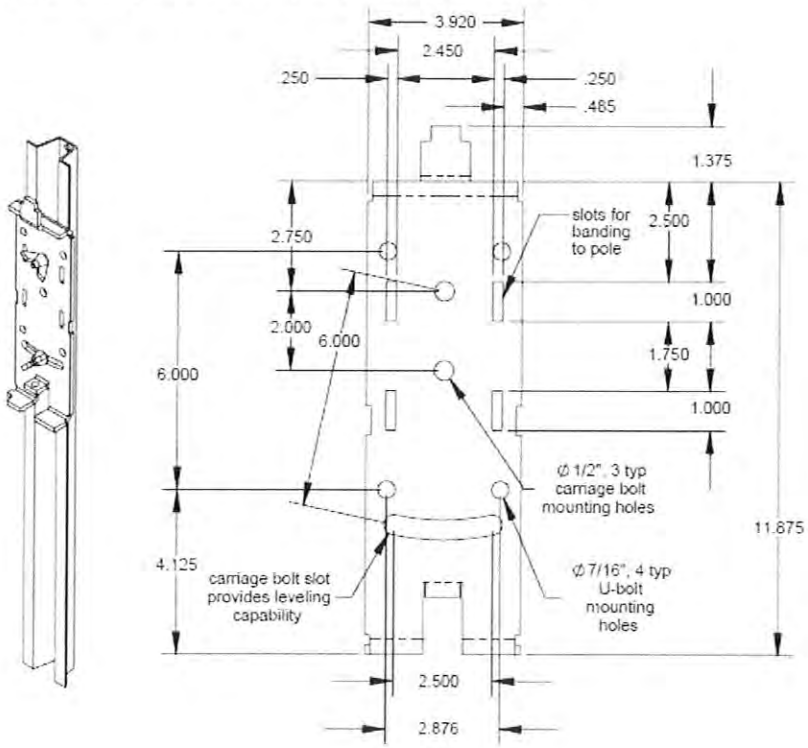
Product Specification
Shield Radar Speed Display

SPEEDsentry Shield 12, 12s and 15 Dimensions



Dim	Sh12	Sh15
X	15.5	24
Y	13.5	17
Z	3.12	3.12
B	26.3	24.3
D	5.75	8
E	12	15
L	15.5	24
H	13.5	8

SPEEDsentry Shield 12, 12s and 15 Mounting Bracket



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Specifications subject to change without notice.
10/3/11

JEFFERSON COUNTY
DEPARTMENT OF ADMINISTRATIVE SERVICES
729 MAPLE ST / PO BOX 100
HILLSBORO MO 63050
WWW.JEFFCOMO.ORG

Invitation for Bid: RADAR SPEED DISPLAY SIGNS **Date Issued: 9-2-15**

BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, OCTOBER 6, 2015, AT 2:00 P.M. LOCAL TIME.

Specification Contact:
KRISTY MOSS
Department of Public Works
636-797-5569
kmoss@jeffcomo.org

Contract Contact:
VICKIE PRATT
Department of Administrative Services
636-797-5380

Mail (3) Three Complete Copies With Vendor And Bid Information As Shown In Sample:

SAMPLE ENVELOPE

VENDOR NAME
VENDOR ADDRESS
CONTACT NUMBER

DEPARTMENT OF THE COUNTY CLERK
JEFFERSON COUNTY MISSOURI
729 MAPLE ST / PO BOX 100
HILLSBORO MO 63050-0100

SEALED BID: *(BID NAME)*

Contract Term:
UPON APPROVAL OF THE COUNTY COUNCIL AND COUNTY EXECUTIVE

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for one additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

Vendor Information:

K & K Systems Inc.	Tim Keith
Company Name	**Authorized Agent (Print)**
687 Palmetto Rd.	Tim Keith
Address	**Signature**
Tupelo, MS 38801	President
City/State/Zip Code	**Title**
662-566-2025	10/01/2015 72-1370925
Telephone #	**Date** **Tax ID #**
tim@k-ksystems.com	662-566-7123
E-mail	**Fax #**

Traffic Data Collection	
Feature	**Specification**
Data software	License free and upgrades readily available. Software able to generate reports (for example, traffic speed compliance)for use in determining sign effectiveness.
Vehicle data logging capacity	Speed data 90 days (based on 24/ 7 operation)with circular buffer
Programmable display features	Minimum speed, speed limit, over speed, and maximum speed to display
Communications	Bluetooth class 1 connectivity min at 30 feet (FCC certified); RS232 port App for Android
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7, Windows 10
	Screen resolution: 1024 x 768 or better Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities : V1.0, V1.2, V2.0, V2.1 + EDC) Disk Space 16.5 MB min

Proposed Manufacturer: K & K Systems Inc.

Proposed Model: RPM-18

Provide any specification sheets for the proposed make and model with the bid submittal.

Include or note any additional shipping or handling charges.
Additional shipping and handling charges (if any): $350.00

Proposed cost for one (1) full sign assembly: $ 3,976.02

Full assembly will be sign, brackets, solar panel,,. etc necessary for the sign to be fully functional.

Proposed cost for two (2) or more full sign assemblies: $ 7,952.04

Comments: _____

The bid request is for the unit (s) only and not for any installation.

MODEL RPM-18 SPECIFICATIONS

18" Character, DC Powered, Radar Speed Monitor Display

Display Frame

- Frame constructed of extruded aluminum, 6063 alloy with a T5 temper.
  - Length: 34"
  - Height: 29½"
  - Depth: 6"
  - Mounting Studs: constructed of .080 aluminum
  - Back skin: constructed of .063 aluminum
  - Viewing Window: .125 thick polycarbonate with UV matte finish
  - Paint: Powder paint, door flat black, balance white
  - Salt spray fog: 1,000 hours
  - UV Resistance: 500 hours

Display Module 5 x 7 pixel, 2.85" pitch

- Specifications:
  - Optical:
    - LED pixel is formed using 4 LED's
    - Pixels are arranged in a 2 digit, 5 wide by 7 tall matrix array.
    - LED pixel spacing is 2.85 inches x 2.85 inches
    - Agilent Amber lamps, 592 NM wavelength, 30 degree viewing angle, bins 4.2 cd to 12 cd
    - LED module is painted a flat black to improve contrast and reduce glare.

Unit Consumption

- Draws less than 15 Watts at full brightness

Photocell Assembly

- Monitors ambient light conditions and adjusts brightness accordingly

Standard Violator Alerts

- Characters flash when over preset threshold
- Display will go blank when over preset threshold

Radar

- Operating Band K-Band
- Frequency 24.125 GHz ±5Mhz
- Power Output 5mW
- Antenna Gain 21 dB
- Polarization Linear
- Supply Voltage 9V DC to 18V DC
- Reverse Battery Protected
- Detection Range Typically 500+ feet
- Nominal Current Draw 58 mA (+12V DC)
- Operating Temp. -22°F to +185°F (-30°C to +85°C)
- Weatherproof Yes
- IR Remote Programmable Yes
- Accuracy ±0.1 mph
- Speed Range 5 mph to 105 (8 kmph to 168 kmph)
- Detection Range Typically 500+ feet detecting compact cars, longer for larger vehicles

Manufacturer reserves the right to make changes in its products from time to time without incurring any obligation to incorporate such improvements in any products previously sold or in service.

K&K Systems, inc.
Traffic Safety Products Manufacturer

Tel: 888-414-3003
Web: www.k-ksystems.com

Fax: 662-566-7123
Email: Sales@k-ksystems.com

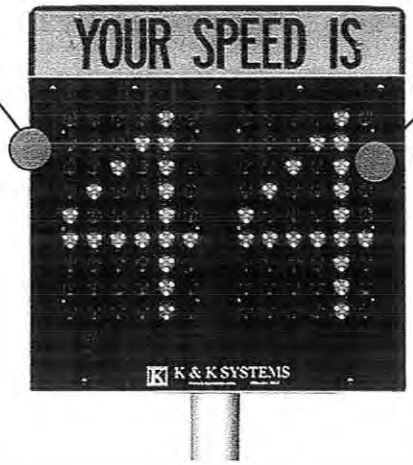
GSA Since 1997

General Specifications for Model RPM18

The RPM18 along with all other radar displays is designed to keep both pedestrians and vehicular traffic safe by reminding the motorist of their speed and by using its violation alert flashing display to draw extra attention to radar display if the motorist is speeding. Radar displays have been proven to slow motorist down anywhere from at least 5-10 MPH.

Display Cabinet

Height: 29.5"
Length: 34"
Depth: 6"
Paint: Powder coat
Paint color: White with black face
Serviceable: Front
Material: Aluminum
Access: Hinged
Protection: Aluminum face & Lexan reinforcement.



Display Modules

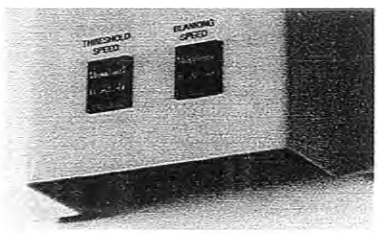
Height: 19.1"
Length: 13.4"
# of modules: 2
Matrix size: 12x9
LED's per pixel: 4
Color: Amber
Addressable: Dipswitches
Viewing angle: 30 Degrees
LED module paint: Flat black

Radar Gun

Type: K Band
Frequency: 24.125 GHZ
Power output: 5mw
Antenna gain: 21db
Protection: Reverse battery
Detection range: 500'
Operating temp: -22°-185°F
Accuracy: -/+ 0.1 MPH
Speed range: 5-105 MPH

Regulator

Voltage: 12VDC
Rated solar input: 10A
Rated load current: 10A
Equalization voltage: 14.8
Low voltage disconnect: 11.1v
Low voltage reconnect: 13.1
Operating temp: -35-55°C



Violation Alerts

Threshold 1: Flashing display
Threshold 2: Blanking display
Settable: Push button selection switches

Options

- Solar powered
- AC powered
- DC powered
- Round aluminum pole kit 11'-20'
- Batteries AGM or wet cell
- Traffic stats
- Speed limit sign
- White or red violator alert strobe
- Portable dolly
- KPH
- Slow down
- Third digit

K&K Systems, inc.
Traffic Safety Products Manufacturer

Tel: 888-414-3003
Web: www.k-ksystems.com
Fax: 662-566-7123
Email: Sales@k-ksystems.com

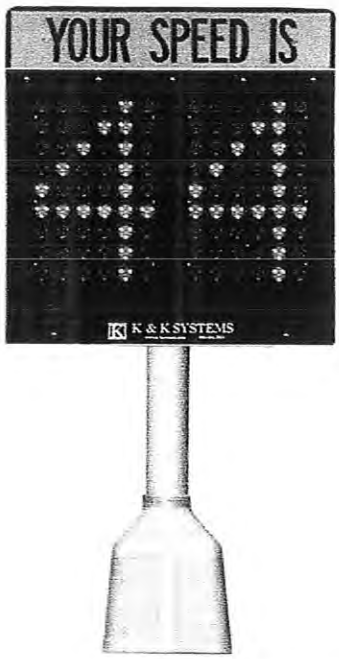
Radar Speed Monitors
Pole Mounted

MODEL RPM18

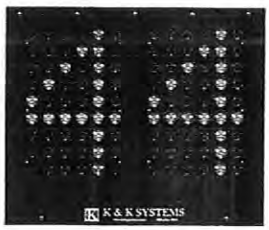
FEATURES

- 18" LED Display
- Easily Adapt to Existing Pole or One of Our Optional Poles
- Radar is FCC pre-approved with CE mark for worldwide deployment
- Lowest power industry standard radar for speed measurement
- All LED Display
- Available in 24.125GHz and 24.200Ghz
- All Aluminum Display Enclosure
- Powder Coat Paint
- Front Serviceable
- Over Speed Flashing Violator Alert
- Over Speed Blanking Violator Alert
- KPH Option available

GSA
Since 1997



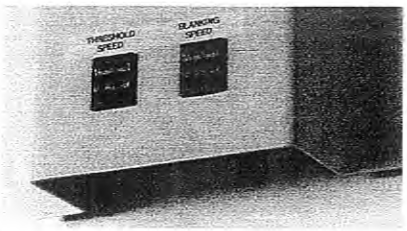
PROTECTIVE FRONT DISPLAY PLATE



- Aluminum with Lexan Reinforcement
- Black Front to Reduce Glare

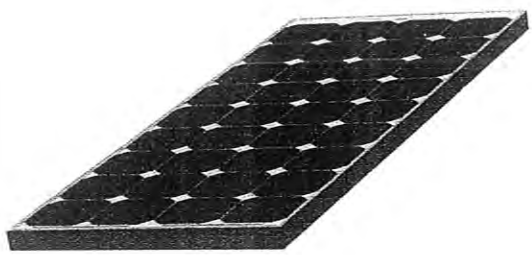
Quick Selection Switch

With K&K Systems' Quick Speed Display Selection Switch you are able to change your over speed violator alert speed and your blanking violator alert without need of a CPU. This will allow for field workers to have no experience in programming – just push the button to desired speed threshold.



Optional Solar Package

With K&K Systems optional Solar feature you no longer need to trench or bore electricity to your radar display. No more Power Bill!



JEFFERSON COUNTY
DEPARTMENT OF ADMINISTRATIVE SERVICES
729 MAPLE ST / PO BOX 100
HILLSBORO MO 63050
WWW.JEFFCOMO.ORG

Invitation for Bid: RADAR SPEED DISPLAY SIGNS **Date Issued: 9-2-15**

BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, OCTOBER 6, 2015, AT 2:00 P.M. LOCAL TIME.

Specification Contact:
KRISTY MOSS
Department of Public Works
636-797-5569
kmoss@jeffcomo.org

Contract Contact:
VICKIE PRATT
Department of Administrative Services
636-797-5380

Mail (3) Three Complete Copies With Vendor And Bid Information As Shown In Sample:

SAMPLE ENVELOPE

VENDOR NAME	
VENDOR ADDRESS	
CONTACT NUMBER	**DEPARTMENT OF THE COUNTY CLERK**
	JEFFERSON COUNTY MISSOURI
	729 MAPLE ST / PO BOX 100
	HILLSBORO MO 63050-0100
SEALED BID: (*BID NAME*)	

Contract Term:
UPON APPROVAL OF THE COUNTY COUNCIL AND COUNTY EXECUTIVE

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for one additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

Vendor Information:

Traffic Parts Inc	Danny Miller
Company Name	**Authorized Agent (Print)**
PO Box 837	Danny Miller
Address	**Signature**
Spring, TX 77383	Regional Sales Manager
City/State/Zip Code	**Title**
800-345-6329	10/1/15 76-0196834
Telephone #	**Date** **Tax ID #**
danny@trafficparts.com	713-490-0755
E-mail	**Fax #**

COPY

Traffic Data Collection	
Feature	**Specification**
Data software	License free and upgrades readily available. Software able to generate reports (for example, traffic speed compliance)for use in determining sign effectiveness.
Vehicle data logging capacity	Speed data 90 days (based on 24/ 7 operation)with circular buffer
Programmable display features	Minimum speed, speed limit, over speed, and maximum speed to display
Communications	Bluetooth class 1 connectivity min at 30 feet (FCC certified); RS232 port App for Android
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7, Windows 10
	Screen resolution: 1024 x 768 or better Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities : V1.0, V1.2, V2.0, V2.1 + EDC) Disk Space 16.5 MB min

Proposed Manufacturer: Traffic Logix

Proposed Model: SP450 w/Universal bracket & data software

Provide any specification sheets for the proposed make and model with the bid submittal.

Include or note any additional shipping or handling charges.
Additional shipping and handling charges (if any): Included

Proposed cost for one (1) full sign assembly: $ 4,780.00

Full assembly will be sign, brackets, solar panel,,. etc necessary for the sign to be fully functional.

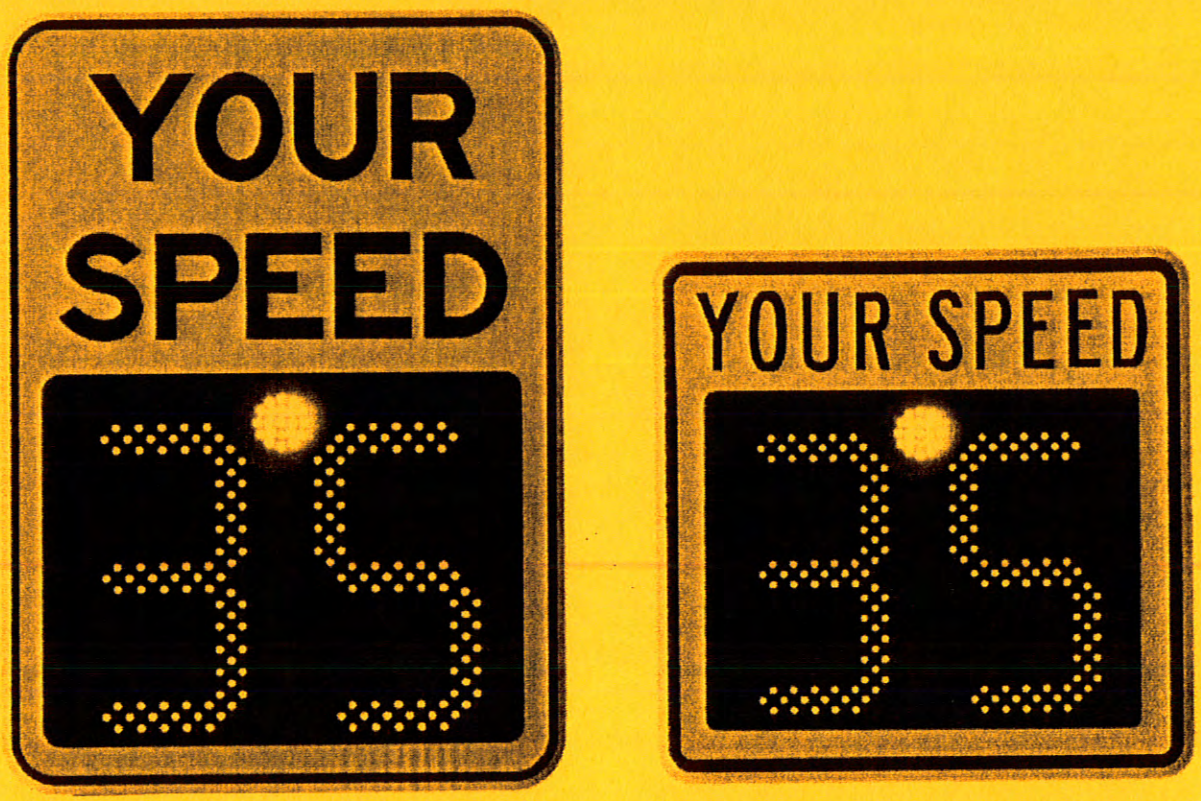
Proposed cost for two (2) or more full sign assemblies: $ 4,705.00

Comments: See spec sheets attached.

The bid request is for the unit (s) only and not for any installation.

Traffic Logix®
SafePace® 450 (Full & Compact) Radar Speed Signs

Product Specifications Version 1.4



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Traffic Logix® Corp. I 3 Harriet Lane I Spring Valley, New York 10977
T (866) 915-6449 F (866)995-6449 I www.trafficlogix.com I info@trafficlogix.com
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Ver. 1.4

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Warranty 9

Warranty Replacement Procedure 10

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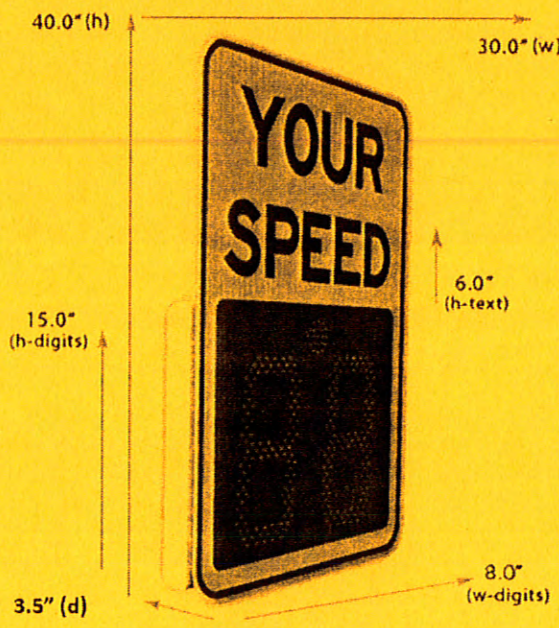
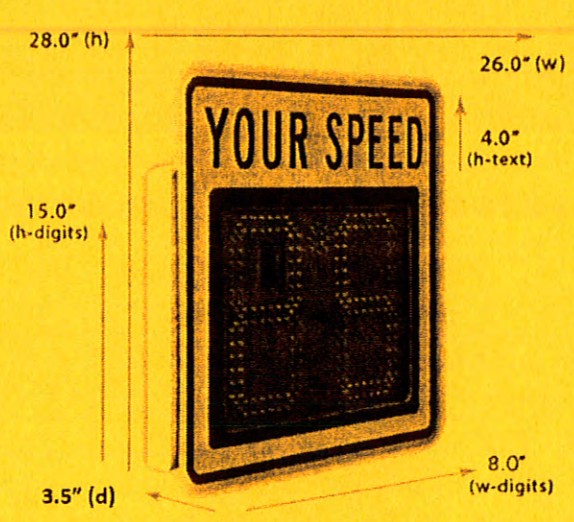
Dimensions

- Digit: 15.0"(h) x 8.0"(w), 112 LEDs per digit
- Text:
  - Full Size: Letters 6.0"(h) spell "YOUR SPEED" fixed message, 2 lines
  - Compact Size: Letters 4.0" (h) spell "YOUR SPEED" fixed message, 1 line
- Unit alone: 21.5"(h) x 26.0"(w) x 3.5"(d)
- Unit with "YOUR SPEED" sign mounted:
  - Full Size: 40.0"(h) x 30.0"(w) x 3.5"(d)
  - Compact Size: 28.0"(h) x 28.0"(w) x 3.5"(d)
- Sign Weight (unit alone without "YOUR SPEED" sign)
  - AC Powered Model: 18 lbs
  - 4 Cell Battery Powered Model: 22 lbs
  - Solar Powered Model: 20 lbs (does not include solar panel or solar panel bracket)
- Accessories
  - 4 Cell Lithium Ion Battery: 4 lbs
  - Universal Mounting Bracket System
    - Sign Bracket: 2 lbs
    - Pole Bracket: 5 lbs





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Technical Specifications

- Miles Per Hour (mph) or Kilometers Per Hour (km/h)
- Aluminum protective cover: 0.1875" (d)
- Yellow or white High-Intensity prismatic reflective sheeting on the sign face with black colored text
- MUTCD approved colors and format
- Operating Temperatures F (C): -40° (-40°) to 185° (85°)
- Conformal coating on all circuit boards
- Power
    - Power input:
        - AC 100~240 VAC
        - 12 VDC
        - Built in ambient light sensing and automatic brightness control
        - Wireless battery charge monitor
    - Power Options
        - AC power input: 100~240 VAC
        - DC power input: 12 VDC
        - Solar power: 20 W solar panel
- Radar
    - Internal Radar: Doppler (FCC approved)
    - Radar RF out: 5 mW maximum
    - Radar f-center: 24.125 GHz center +/-25 MHz
    - Pickup distance: Up to 1,200 feet (366 m)
    - Beam angle: 11° x 11°
    - Beam polarization: Linear

- Display
    - LEDs 245:
        - Digits: 224 Amber, 23°, 5 mm, luminous Intensity (5680 – 8200 mcd/LED)
        - Speed Violator Strobe: 21 White, 15°, 5 mm , luminous intensity (28,150 mcd/LED)
    - Optical lenses: 245 lenses
    - Ambient light sensor and automatic brightness adjustment

---

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- Enclosure
  - 12 gauge aluminum, flat black powder coated front for reduced glare and maximum contrast; light gray powder coated body to minimize heat absorption
  - Weatherproof, NEMA 4X-12, IP65 level compliant
  - Non-sealed and ventilated
- Mounting Options
  - Banding brackets (standard)
  - Universal Mounting Bracket System
    - Universal mounting options: circular, square and telspar poles
    - Theft resistant
    - Promotes sign portability: sign locks into mounting bracket with a turn of a key

Communication

- Bluetooth 4.0
- Wi-Fi

Programming

- SafePace® Pro management software
- 24/7 365 day unlimited programming and scheduling
- Display Settings:
  - Display On/Stealth Modes (In Stealth Mode, speed is not displayed but data is collected)
  - Display Minimum Speed, Display Maximum Speed
  - Digit Flashing Speed Threshold (digits flash above selected speed)
  - Speed Violator Strobe (pulsing strobe flashes with digits or alone above Display Maximum Speed)

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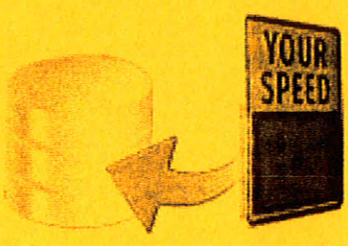
Data Collection and Statistical Analysis & Reporting (optional feature)

- Traffic data collected and stored by location
- Stealth Mode (capture baseline traffic data with speed display off)
- Download through wireless connection
- Statistical Reporting & Charts
  - Summary Reports
  - Weekly Reports
  - Period Comparison Reports
  - Full custom reports and charts
  - Reporting Parameters:
    - Average Vehicle Count
    - Total Vehicle Count
    - Average Speed
    - Average Number of Speed Violations
    - Total Number of Speed Violations
  - Other Features:
    - Minimum and Maximum Speed
    - 85% Speed
    - Counters by Speed Bins
    - 5 MPH Bin Resolution
    - Reports print directly or can be exported into CSV format, MS Excel, Adobe Acrobat PDF and HTML
    - Charts may be printed directly or converted into Adobe Acrobat PDF and picture formats



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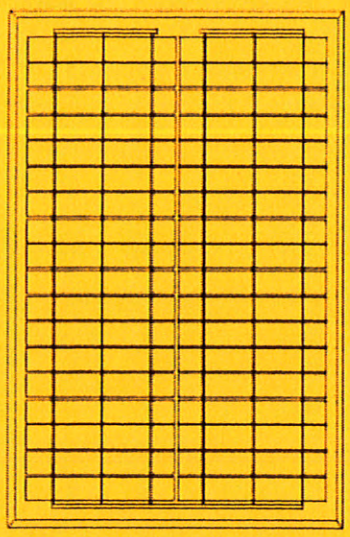
SafePace 450 Solar Panel specifications

20 WATT Panels Specifications



Solar cells: Crystalline solar cells

Laminate: Glass /EVA / TPT (tedlar/pet/tedlar) or TPE

Front Side: High-transmission 3.2mm tempered glass

Back Side: TPT /TPE

Frame: Clear anodized aluminum frame

Output: Junction box

Module Type	Pm(Wp)±5%	Vmpp(V)	Impp(A)	Voc(V)	Isc(A)	Module size(mm)	NET(kg)
20 WATT PANEL	20	17.1	1.17	21.4	1.3	520*350*18mm 20.5"*13.8"*0.7"	2.0

Operation Temperature Range: - 40℃~85℃

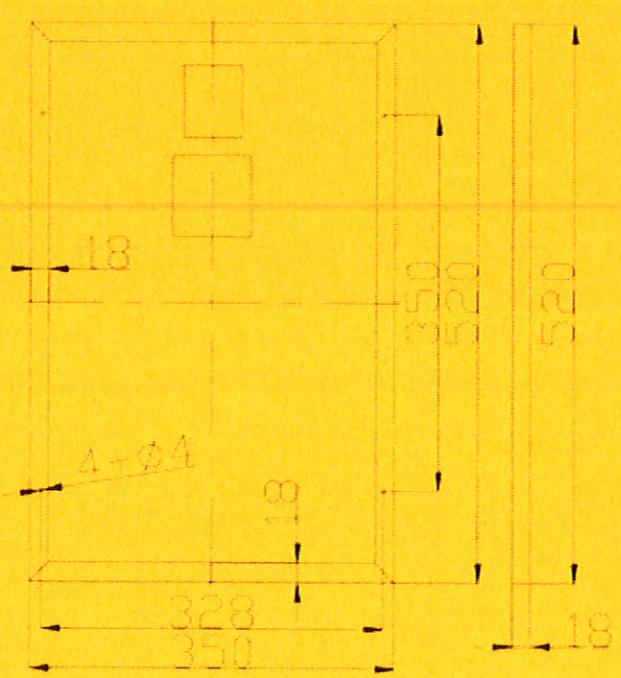
NOCT: 48℃±3℃

Temperature coefficients of Im: + 0.1 %/℃

Temperature coefficients of Vm: - 0.38 %/℃

Maximum System Voltage: DC600V

STC: 1000W/m², 25℃ AM1.5



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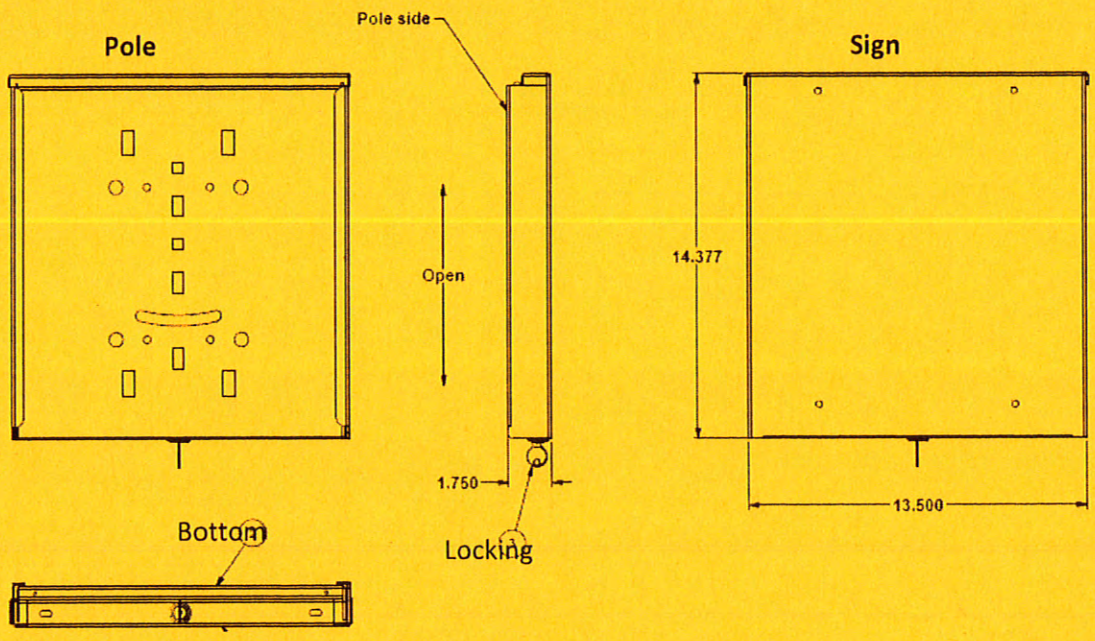
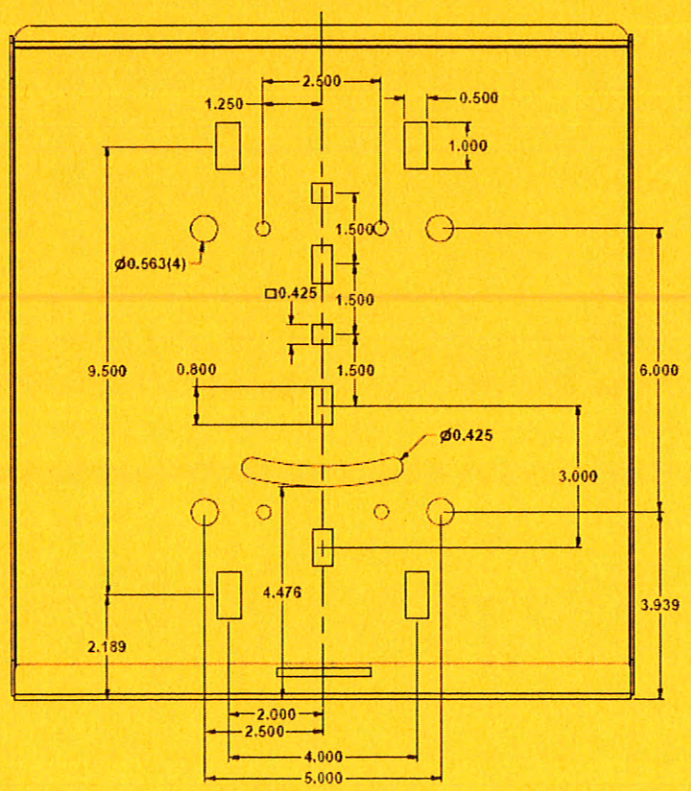
Universal Mounting Bracket System



Inside view



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Warranty

Subject to the following conditions, Traffic Logix Corporation ("Traffic Logix") warrants that the SafePace® 450 Speed sign (the "Product") is free from defects in materials and workmanship. This limited warranty begins on the invoice date of your purchase of the Product and extends:

- For TWO (2) calendar years on the radar sign, and
- For ONE (1) calendar year on the batteries.

This limited warranty extends only to the original purchaser of the Product when purchased either directly through Traffic Logix® or through an authorized Traffic Logix® distributor and is not assignable or transferable to any subsequent purchaser or end-user. Traffic Logix's® obligation and liability under this warranty are expressly limited to repairing or replacing, at Traffic Logix's® option, defective products. In no circumstances shall Traffic Logix's® liability, whether in contract or tort, under any warranty, in negligence, or otherwise, exceed the amount of the purchase price of the product. Traffic Logix® shall not be liable for special, indirect, or consequential damages of any kind. This warranty does not cover damages resulting from normal wear and tear, incorrect installation or operation, use other than for the product's intended purposes, vandalism, and extraordinary environmental circumstances. Traffic Logix® reserves the right to charge for these damages to the product at rates normally charged for repairing such products not covered under this warranty. Damages resulting from any physical changes or alterations made to the product other than Traffic Logix® will render this warranty **VOID**. Using any parts or accessories not supplied or approved by Traffic Logix®, such as battery chargers, will further render the warranty **VOID**.

Traffic Logix® neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale of the Product, and there are no agreements or warranties collateral to or affecting this limited warranty.

THE LIMITED WARRANTY SET FORTH IN THIS AGREEMENT IS THE EXCLUSIVE AND SOLE WARRANTY APPLICABLE TO THIS PURCHASE. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED.

Traffic Logix® does not warrant that any of its products will meet or comply with the requirements of any applicable federal, state or local safety code, law, regulation or ordinance ("Applicable Safety Laws"). Buyer acknowledges that Traffic Logix's® products are to be used only in accordance with the attached Conditional Terms of Use and any Applicable Safety Laws. Buyer agrees that there shall be no coverage or benefits of any kind under this limited warranty if it is determined by Traffic Logix® that the Product was not installed or used in accordance with the Conditional Terms of Use or Applicable Safety

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Laws, or if the Product has been altered in any way by anyone other than Traffic Logix®, or if the Product has been subject to any misuse or accident. In addition, Buyer assumes and agrees to indemnify Traffic Logix® for all risk, liability or expense that results from any installation or use of the Product that is not in accordance with the Conditional Terms of Use or any Applicable Safety Laws.

Warranty Replacement Procedure

In order to submit a claim for the repair or replacement of the Product under this limited warranty, you must do the following:

1) Obtain a Return Materials Authorization number by contacting Customer Support. Do not ship your defective product to Traffic Logix® prior to contacting Customer Support.

2) A Customer Support agent will evaluate the Product to determine if it is defective. If the product is defective, then you will need to submit your contact information, and proof of purchase (including the date or purchase), in order to obtain repair or replacement parts.

3) The Customer Service Agent will provide you with instructions on how to have defective parts repaired or replaced.

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TRAFFIC LOGIX

productsservices datacollection

Data Collection

The SafePace® radar sign series includes two easy-to-use software packages:

- **SafePace® 100 Management Software**
  (for use with the SafePace® 100 radar sign)
- **SafePace® Pro**
  (for use with the SafePace® 400, 500, and 600 radar signs)

Both software packages are designed with the user in mind and are easy-to-use, including a wide range of features to help you manage your signs.

Management and Programming

When using either software package, you will be able to set sign parameters, such as:

- Speed display range
- Digit and strobe flashing threshold speeds
- Detection range
- Operation mode

Settings can either be saved to files and given to other technicians, or used to program other SafePace® signs of similar model.

The SafePace® Pro software offers some additional advanced features that allow you to:

- Program radar sign schedules
- Program school zone beacon schedules (when this option is purchased)
- Adjust digit and strobe flashing frequencies
- View real-time readings (when connected to the sign)

- View sign location(s) via an integrated mapping tool
- Customize messages, graphics, and animations to correlate to driver behaviors, road conditions, and notable events (available only with the SafePace® 600-800 signs).

Data Collection and Reporting

"Traffic Statistics at Your Fingertips"

Both software packages include an optional Data Collection feature offering extensive and highly precise traffic information. Utilizing the most accurate doppler radar technology available in the market today, traffic data is stored and collected for later analysis:

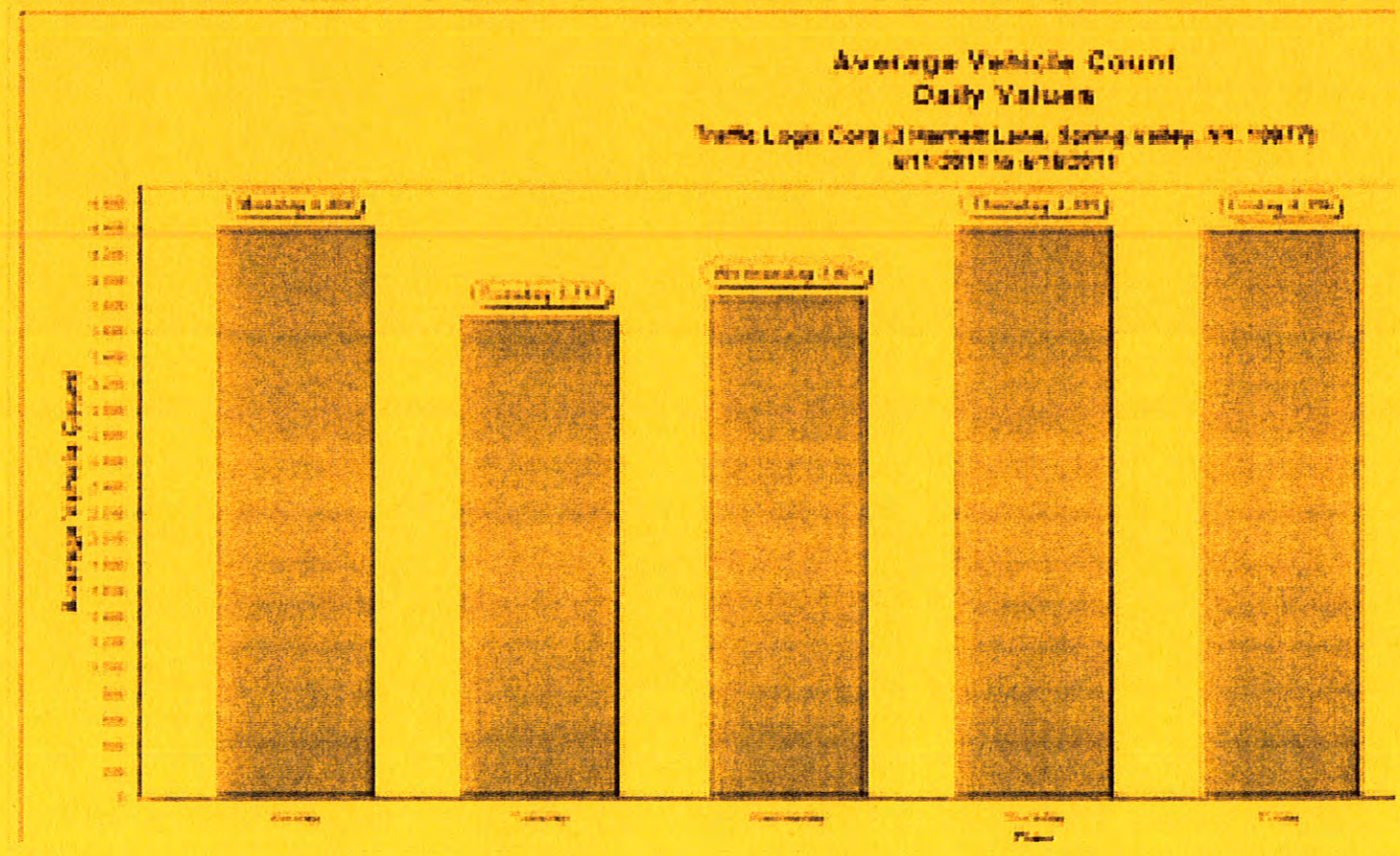
- Total and average vehicle counts
- Minimum and maximum speeds
- Average and 85th percentile speeds
- Total percentage of speed violations

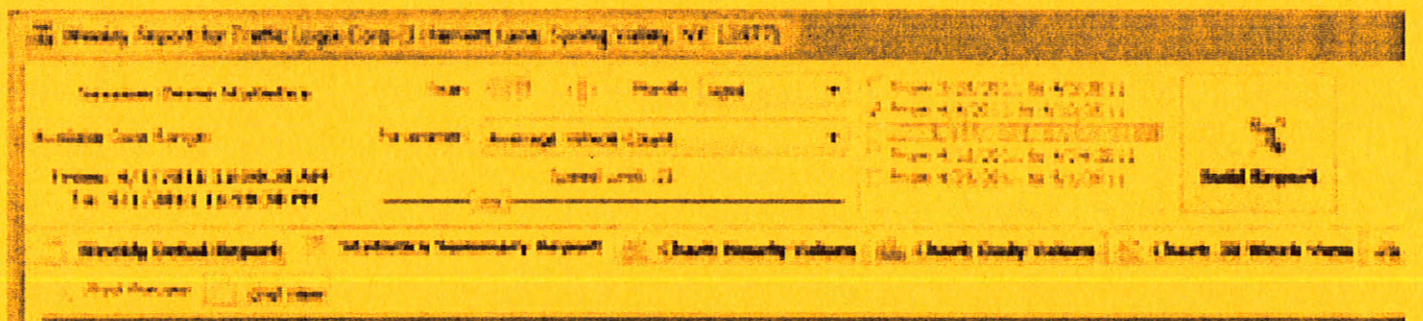
Collected data can be retrieved and downloaded from the sign and viewed in hourly, daily, and weekly increments. Summary reports, weekly reports, and period comparison reports are but just a few of the reports and charts available. All reports can be printed directly or exported in a variety of formats to suit your needs. SafePace® Pro offers advanced statics and reporting which allows you to further customize reports and charts to view more granular traffic data.

System Requirements

- Windows XP, Vista, or 7
- 1024 x 600 display
- USB Serial Cable or Bluetooth (SafePace 100)
- WiFi or Bluetooth (SafePace 400, 500, 600)
- Less than 14 MB disk space (SafePace 100)
- 15 MB disk space (Safepace 400, 500, 600)

MAJOR
DELAY
EXIT
NOW
MAJOR
DELAY
ICE ON
ROAD
MAJOR
DELAY


Average Vehicle Count
Daily Values



Weekly Report for Traffic Logix Corp (3 Harriett Lane, Spring Valley, NY 10977)

Session: Demo Statistics | Year: | Month: | Legal

Available Data Range | Parameter: Average Vehicle Count

From: 4/1/2016 [illegible] AM
To: 5/1/2016 [illegible] PM

Speed Limit: 25

From 3/28/2011 to 4/3/2011
From 4/4/2011 to 4/10/2011
From 4/11/2011 to 4/17/2011
From 4/18/2011 to 4/24/2011
From 4/25/2011 to 5/1/2011

Build Report

Weekly Detail Report | Statistics Summary Report | Chart: Hourly Values | Chart: Daily Values | Chart: 30 Week View

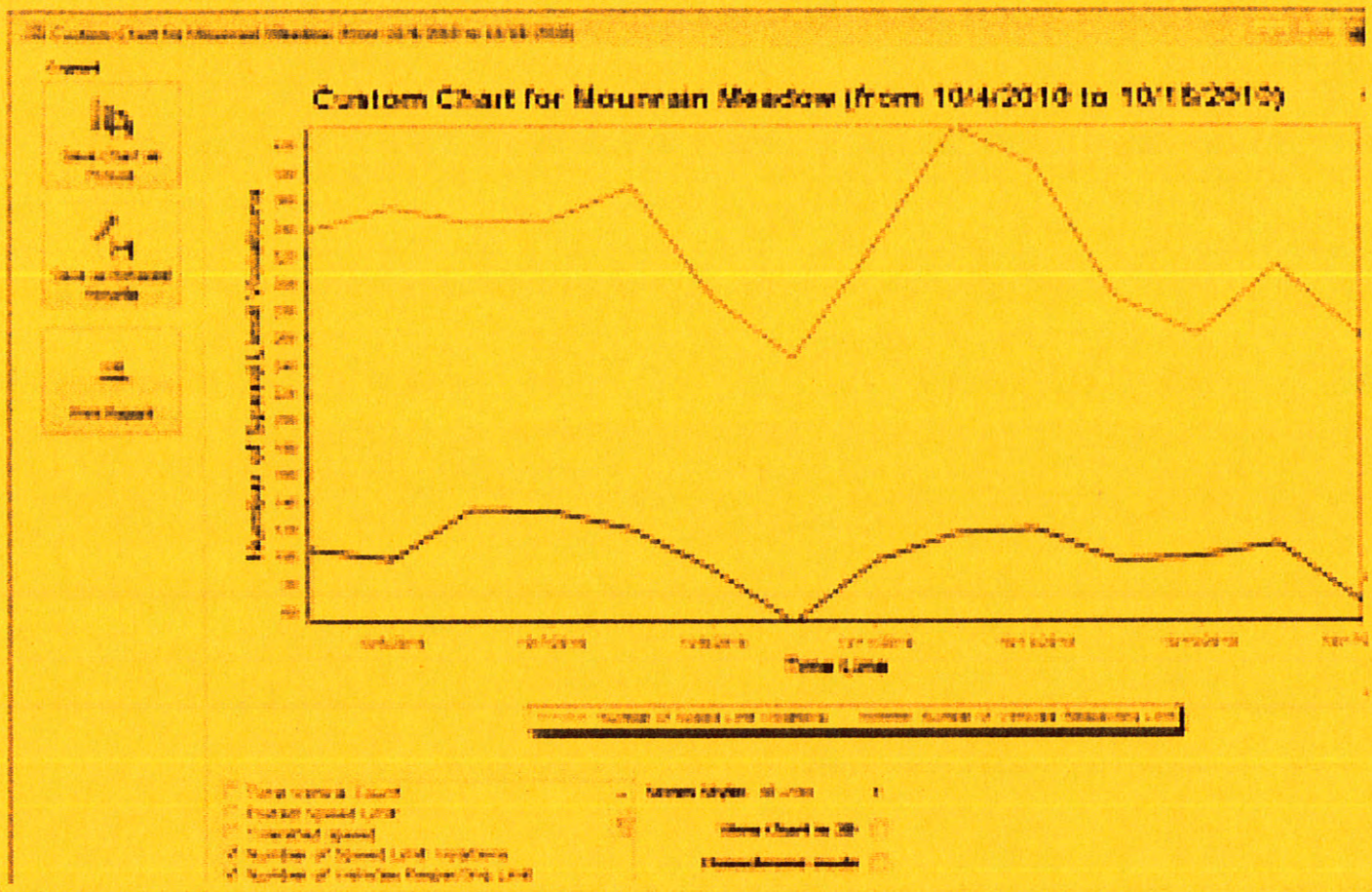
Print Preview | Grid View

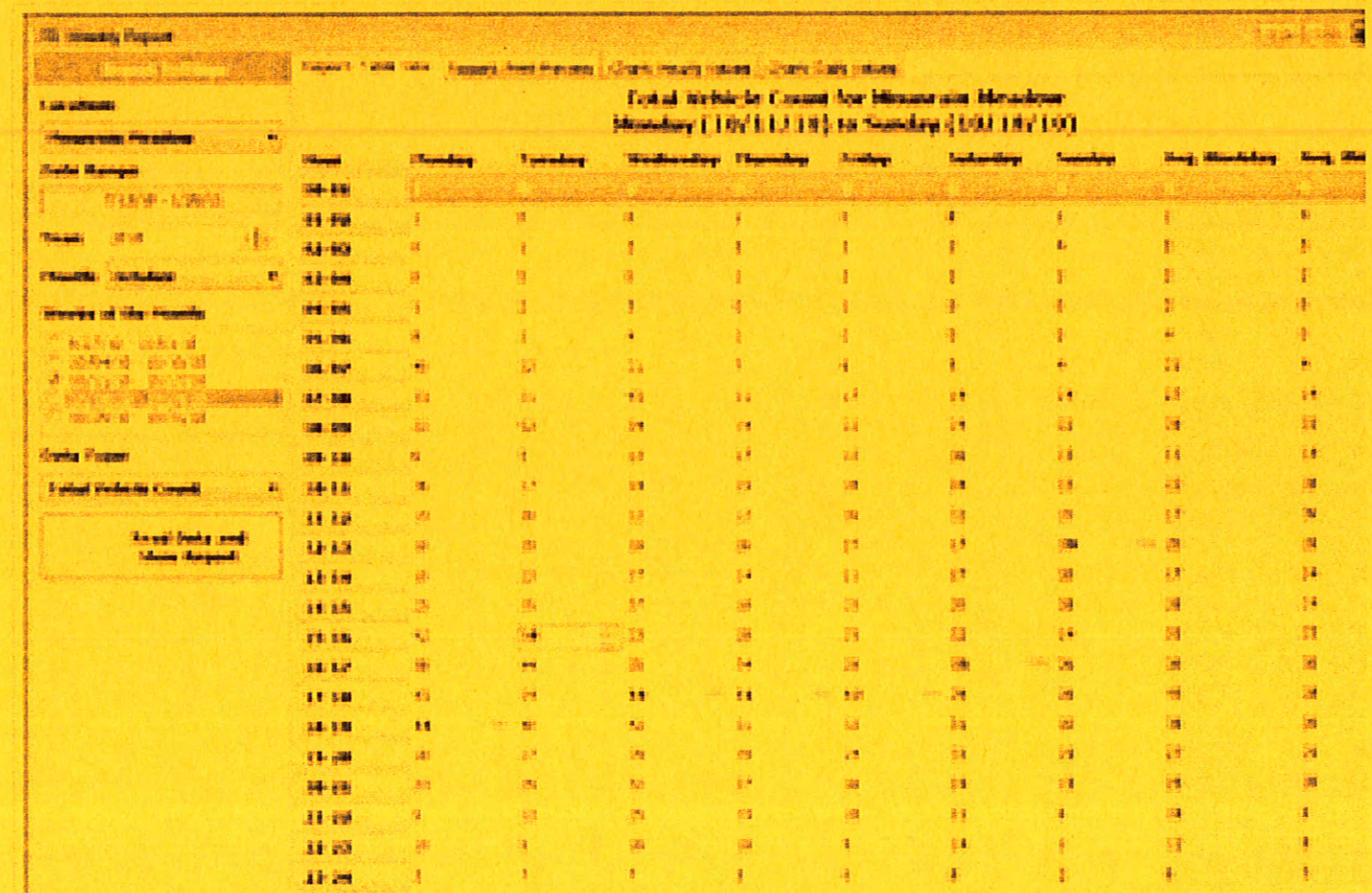
Statistics Summary Report

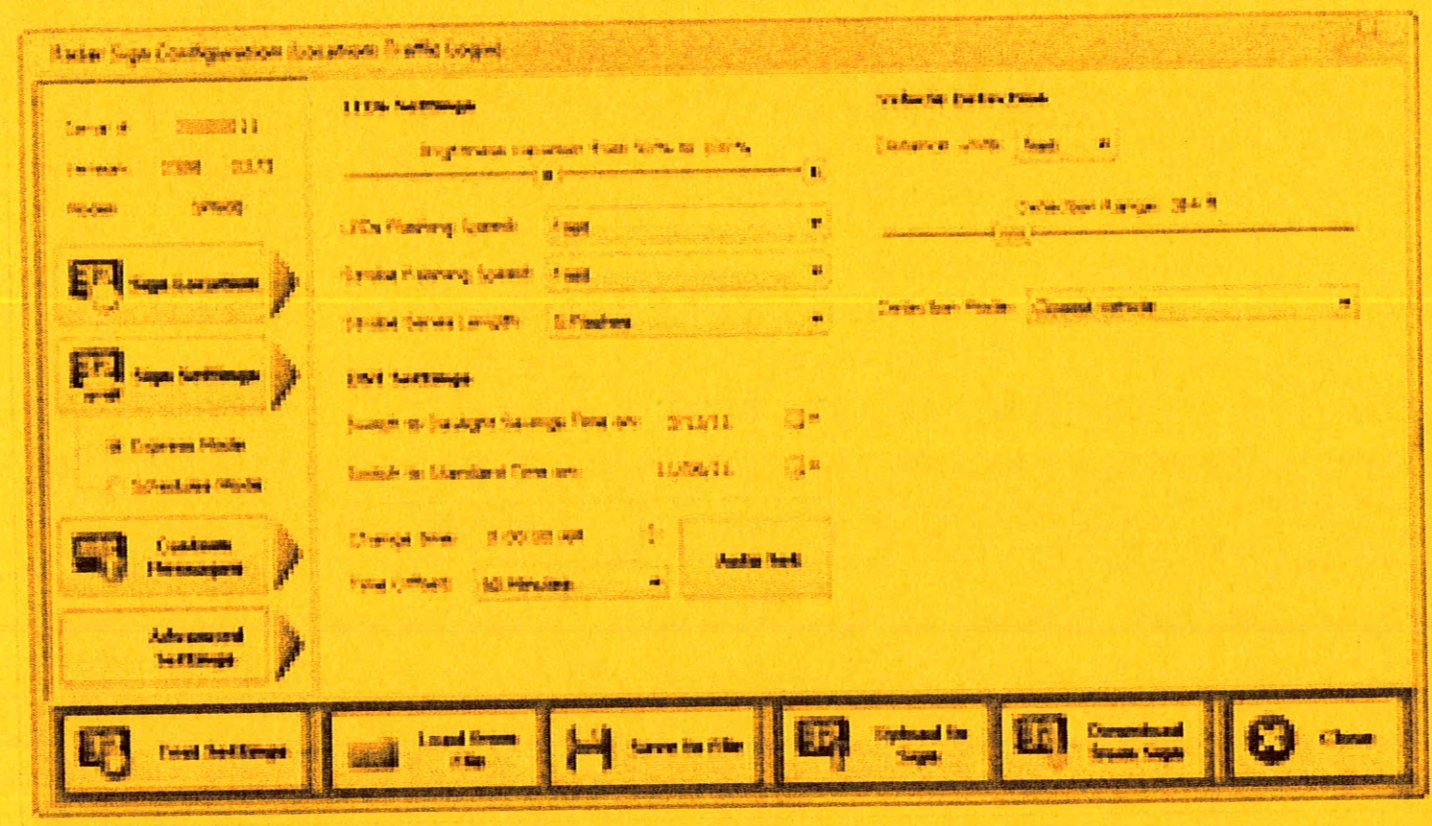
Location: Traffic Logix Corp
Address: 3 Harriett Lane, Spring Valley, NY, 10977
Speed Limit: 25

Data Session: Demo Statistics
Report Period: 4/4/2015 to 4/10/2015
Total Vehicle Count: 21,368

Hour	Total Vehicles	Average Vehicles	Total Violations	% Violations	Min. Speed	Max. Speed	Avg. Speed	85% Speed
00-01	103	23	101	98 %	13	43	32	32
01-02	95	14	95	100 %	23	43	32	37
02-03	57	8	52	92 %	4	38	30	32
03-04	36	5	33	91 %	13	38	32	37
04-05	34	5	24	76 %	4	38	28	37
05-06	98	14	85	74 %	13	53	30	32
06-07	290	41	207	75 %	13	43	29	32
07-08	926	132	703	82 %	4	43	30	32
08-09	1,324	219	1,274	88 %	4	44	31	32
09-10	1,336	219	1,190	80 %	4	44	29	32
10-11	1,492	206	1,173	83 %	13	44	30	32
11-12	1,539	219	1,271	84 %	4	44	30	32
12-13	1,661	237	1,398	85 %	4	44	30	32


Custom Chart for Mountain Meadow (from 10/4/2010 to 10/18/2010)





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Site by mlm

JEFFERSON COUNTY
DEPARTMENT OF ADMINISTRATIVE SERVICES
729 MAPLE ST / PO BOX 100
HILLSBORO MO 63050
WWW.JEFFCOMO.ORG

Invitation for Bid: RADAR SPEED DISPLAY SIGNS **Date Issued:** 9-2-15

BIDS SHALL BE ACCEPTED UNTIL: TUESDAY, OCTOBER 6, 2015, AT 2:00 P.M. LOCAL TIME.

Specification Contact:
KRISTY MOSS
Department of Public Works
636-797-5569
kmoss@jeffcomo.org

Contract Contact:
VICKIE PRATT
Department of Administrative Services
636-797-5380

Mail (3) Three Complete Copies With Vendor And Bid Information As Shown In Sample:

SAMPLE ENVELOPE

VENDOR NAME
VENDOR ADDRESS
CONTACT NUMBER

DEPARTMENT OF THE COUNTY CLERK
JEFFERSON COUNTY MISSOURI
729 MAPLE ST / PO BOX 100
HILLSBORO MO 63050-0100

SEALED BID: (*BID NAME*)

Contract Term:
UPON APPROVAL OF THE COUNTY COUNCIL AND COUNTY EXECUTIVE

The undersigned certifies that he/she has the authority to bind this company in an agreement/contract to supply the commodity or service in accordance with all terms, conditions, and pricing specified. This Bid, if accepted, will constitute an Agreement and Contract with Jefferson County, Missouri, upon approval of the County Council and County Executive. Prices are firm during this agreement term, unless agreed upon in writing by the County. The County has the option to renew this agreement at the same terms and conditions as the original agreement for one additional one-year term with the written consent of the successful Bidder. Price increases for renewals are not authorized unless approved in writing by the County.

Vendor Information:

Traffic Control Corp. DBA Traffic Systems Corp	Grahm Zieba
Company Name	Authorized Agent (Print)
1728B Westpark Center	
Address	Signature
Fenton. MO 63026	Area Manager
City/State/Zip Code	Title
636-305-8200	10-5-2015 36-2059066
Telephone #	Date Tax ID #
gzieba@trafficcontrolcorp.com	636-305-8201
E-mail	Fax #

Traffic Data Collection	
Feature	**Specification**
Data software	License free and upgrades readily available. Software able to generate reports (for example, traffic speed compliance)for use in determining sign effectiveness.
Vehicle data logging capacity	Speed data 90 days (based on 24/ 7 operation)with circular buffer
Programmable display features	Minimum speed, speed limit, over speed, and maximum speed to display
Communications	Bluetooth class 1 connectivity min at 30 feet (FCC certified); RS232 port App for Android
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7, Windows 10
	Screen resolution: 1024 x 768 or better Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities : V1.0, V1.2, V2.0, V2.1 + EDC) Disk Space 16.5 MB min

Proposed Manufacturer: Traffic Logix

Proposed Model: SP450 solar with Bluetooth, Data Package and Universal Mounting Bracket

Provide any specification sheets for the proposed make and model with the bid submittal.

Include or note any additional shipping or handling charges.
Additional shipping and handling charges (if any): shipping charges included

Proposed cost for one (1) full sign assembly: $ $4925.00

Full assembly will be sign, brackets, solar panel,,. etc necessary for the sign to be fully functional.

Proposed cost for two (2) or more full sign assemblies: $ $4925.00

Comments: Price break available for 5 or more units ordered at the same time.

The bid request is for the unit (s) only and not for any installation.