

**FAIRFIELD TOWNSHIP
RESOLUTION NO. 22-98**

**RESOLUTION TO APPROVE PURCHASE OF THREE SHIELD 12 SPEED DISPLAYS
FOR THE POLICE DEPARTMENT FROM ALL TRAFFIC SOLUTIONS IN THE
TOTAL AMOUNT OF \$23,656.00.**

WHEREAS: The Police Chief has recommended the purchase of three (3) Shield 12 speed displays as they will be instrumental in reducing injuries and possibly fatalities related to traffic accidents by lowering motorist speeds; and

WHEREAS: This purchase will increase the ability to respond to speed complaints; and

WHEREAS: This is a one-time purchase with better than state bid cost;

NOW, THEREFORE, BE IT RESOLVED, by the Trustees of Fairfield Township, Butler County, Ohio, as follows:

SECTION 1: The Board of Trustees hereby approves the purchase of three Shield 12 speed displays from All Traffic Solutions, for the Police Department in the total amount of \$23,656.00, to be paid out of Fund 2191 and included herein on Attachment "A".

SECTION 2: This Resolution is the subject of the general authority granted to the Board of Trustees through the Ohio Revised Code and not the specific authority granted to the Board of Trustees through the status as a Limited Home Rule Township.

SECTION 3: That it is hereby found and determined that all formal actions of this Board concerning and relating to the passage of this Resolution were taken in meetings open to the public, in compliance with all legal requirements including §121.22 of the Ohio Revised Code.

SECTION 4: This Resolution shall take effect at the earliest period allowed by law.

Adopted: July 6, 2022

Board of Trustees

Shannon Hartkemeyer:

Michael Berding:

Joe McAbee:

Vote of Trustees

yes

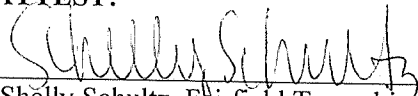
yes

absent

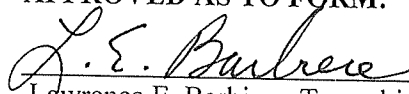
AUTHENTICATION

This is to certify that this is a resolution which was duly passed, and filed with the Fairfield Township Fiscal Officer this 6th day of July, 2022

ATTEST:


Shelly Schultz, Fairfield Township Fiscal Officer

APPROVED AS TO FORM:


Lawrence E. Barbieri, Township Law Director

June 24, 2022

TO: Julie Vonderhaar
Township Administrator

FROM: Robert Chabali
Chief of Police

SUBJECT: Request to Purchase 3 SHIELD 12 Speed Displays

Mrs. Vonderhaar:

As you are aware, the Fairfield Township Police Department receives numerous speed complaints throughout the year. Most of the time, we receive simultaneous speeding complaints and, along with the forthcoming speed trailer, assign personnel to monitor and take appropriate action. The usage of the former speed trailer along with our enforcement actions addressed some of the complaints.

In order to increase the ability to respond to the simultaneous complaints I am requesting approval to purchase three SHIELD 12 radar speed signs. These signs have the following capabilities:

- Lightweight and portable\Simple, Universal Mount
 - 12 or 18 lbs. Including mount
- Simple, Universal Mounting
 - One person can mount and deploy a SHIELD in minutes on pole, post, trailer or hitch
- Durable Construction
 - The SHIELD is rugged and weatherproof
- MUTCD Compliant
 - Meets the MUTCD minimum requirement of 12" digit size
- Amazing Battery Life/Flexible Power Options
 - Has a solar battery kit
- Remote Accessibility
 - Access and monitor the SHIELD from anywhere with an Internet connection -web based – requires Traffic Cloud subscription
- Eliminate Data File Management
 - Upload data automatically, generate and share ready-made reports from computer or tablet.
- Receive Alerts
 - Get email or text alerts for tampering, low batteries and high-speed violators

I have attached the quote which itemizes what the cost includes. I have also attached flyers with additional information for your review.

TOTAL COST: \$23,656.00



Robert Chabali
Chief of Police

**ALL TRAFFIC
SOLUTIONS****Mail Purchase
Orders to:**

3100 Research Dr.
State College, PA
16801

All Traffic Solutions Inc.
14201 Sullyfield Circle,
Ste 300
Chantilly, VA 20151
Phone: 814-237-9005
Fax: 814-237-9006
DUNS #: 001225114
Tax ID: 25-1887906
CAGE Code: 34FQ5

Contract:

QUOTE Q-68608

DATE: 06/23/2022

PAGE
NO: 1

**Questions contact:
MANUFACTURER:
All Traffic Solutions**

Julie Styskin
(866) 366-6602
x 250
jstyskin@alltrafficsolutions.com

Independent Sales Rep:

BILL TO:

Fairfield Township Police Department
6032 Morris Rd
Hamilton OH 45011

SHIP TO:

Fairfield Township Police Department
6032 Morris Rd
Hamilton OH 45011
Attn: John Vanderyt

Billing Contact:

**PAYMENT
TERMS:
Net 30**

CUSTOMER: Fairfield
Township Police
Department

CONTACT:(513) 785-4176

ITEM NO:	DESCRIPTION:	QTY:	EACH:	EXT. PRICE:
4001299	3 Year Warranty	3	\$0.00	\$0.00
4001626	VZW communications prep	3	\$0.00	\$0.00
4000561	Shield 12 Speed Display; base unit w/ mounting bracket	3	\$2,995.00	\$8,985.00
4000773	App, Traffic Suite (36mo); Equip Mgmt, Reporting, Image Mgmt, Alerts, Mapping and PremierCare	3	\$4,500.00	\$13,500.00
4000874	All Options Activation: Bluetooth, Traffic Data, Violator Alert, Pictures, (\$3000 Value, requires Traffic or Message Suite)	3	\$0.00	\$0.00
4000750	App, Mobile User Interface perpetual license (only 1 req'd per account)	1	\$100.00	\$100.00
4000641	Shipping and Handling Common Carrier	3	\$125.00	\$375.00
4001190	Discount - New Purchase	3	(\$500.00)	(\$1,500.00)
4000676	Solar battery kit, (Sh12,Sh15,SA18,iA18): 18Ah batt & enclosure, w/solar control	3	\$282.00	\$846.00
4000659	Solar panel, 50W; includes bracket for pole and harness	3	\$450.00	\$1,350.00

Special Notes:

**SALES
AMOUNT:**

\$23,656.00

Sh12- Solar battery kit with 50 -Watt Solar panel - mount

plate with hardware – "YOUR SPEED" sign – All features activated perpetually (Bluetooth – Data – Strobe and Imaging) – 3 years of web services (TrafficCloud) to all 6 Apps (Remote Management – Imaging – Data – Alerts, Mapping and Premier Care warranty) – shipping and training. 3 year warranty

TOTAL
USD:

\$23,656.00

Duration: This quote is good for 60 days from date of issue.

Shipping Notes: All shipments shall be FOB shipper. Shipping charges shall be additional unless listed on quote.

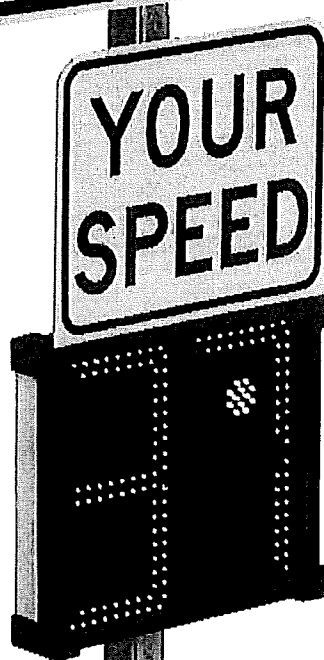
Taxes: Taxes are not included in quote. Please provide a tax-exempt certificate or sales tax will be applied.

Warranty: Unless otherwise indicated, all products have a one year warranty from date of sale. Warranty extensions are a component of some applications that are available at time of purchase. A Finance Charge of 1.5% per month will be applied to overdue balances. GSA GS-07F-6092R

Authorization: By Signing below, I indicate that my organization does not require a purchase order and I am authorized to commit my organization to this order.

Signature: _____ Date: _____

Print Name: _____ Title: _____





ALL TRAFFIC
SOLUTIONS

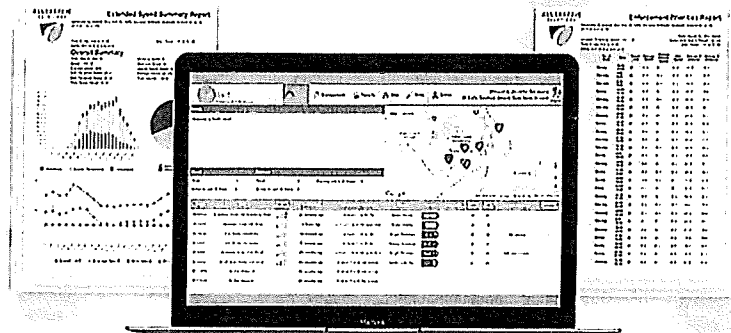
Connected Solutions for Better Traffic Safety Outcomes

TRAFFICLOUD: WEB-BASED DEVICE AND DATA MANAGEMENT

AllTrafficSolutions.com

Save Time and Maximize Resources with TraffiCloud®

TraffiCloud is the secure, web-based platform that makes it easy to manage all your traffic data and safety devices remotely using any internet-connected device.

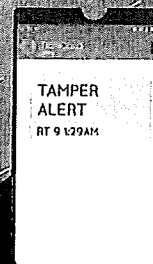
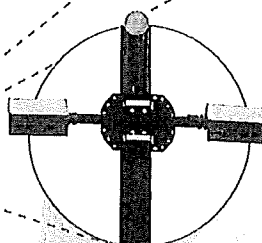
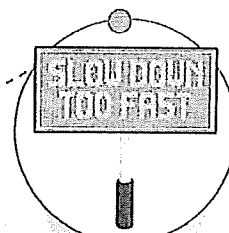
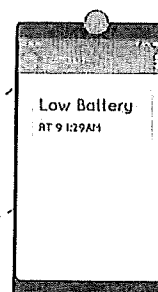


1 Save time by remotely accessing, monitoring, and programming all connected devices on a central platform.

2 View dashboards and generate ready-made PDF reports of all collected data or just one traffic device.

3 Improve workflows, optimize resources, and maximize efficiency.

4 Make better-informed decisions and prioritize enforcement based on data analytics from all your program components.



TraffiCloud®

"For us, the data is really priceless. It is truly a force-multiplier."

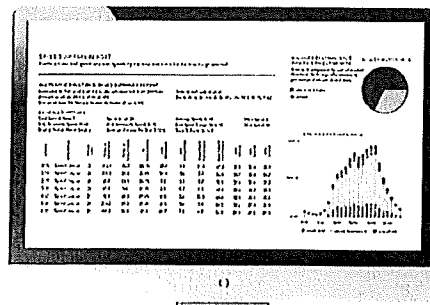
- Sgt. Cooley, Cedar Hill Police Department



MADE IN THE USA

See All Devices on a Central View

TraffiCloud® intuitive visual interface lets you see your entire program at a glance. Interactive maps provide a window to all device information.



Remotely Manage Traffic Devices

Stop wasting time driving to and from your traffic safety equipment only to monitor or update it. With TraffiCloud, you can do the following remotely, from anywhere, using any internet-connected device:

- Ensure that devices are on, properly functioning, and have adequate battery levels
- Change and update settings on all devices
- Design and deploy custom messages to one sign or multiple signs at once
- Schedule different messages for specific days and times
- Review, edit, print, and act on any useful images captured by devices



Set Alerts

Set up automatic text or email alerts for incidents like low battery levels, high speeds, tampering, and more. You have complete control over which situations warrant alerts and who will receive the notifications.



Generate Ready-Made Reports

TraffiCloud makes resolving complaints and sharing data easier than ever.

TraffiCloud automatically uploads new data into a centralized SAS70-certified environment daily, and you can quickly generate ready-made reports in an easily-sharable PDF format.

Create reports on-demand at any time or schedule them for regular delivery to your email inbox for maximum convenience.



Premier Care Warranty

With your TraffiCloud subscription, you'll also get a perpetual Premier Care warranty on all your All Traffic Solutions products.

Premier Care gives you:

- Remote diagnostics and hardware defect repairs for the entire product lifespan
- 50% discount on repairs due to accidental damage or vandalism
- 50% off additional accessories for devices (brackets, batteries, etc.)

"TraffiCloud has been invaluable to us. It's the tool we will always use. Everybody's town is different, and there are many ways to use TraffiCloud for your particular traffic challenges."

— Sgt. Finfrock, Clarendon Hills Police Department

ALL TRAFFIC
SOLUTIONS

For more information visit us online at AllTrafficSolutions.com



sales@alltrafficsolutions.com



Call us at 866.366.6602

All Traffic Solutions, 12950 Worldgate Drive, Suite 310, Herndon, VA 20170

©All Traffic Solutions TraffiCloud leverages our patented technology (US Patents 8417442; 8755990; 9070287; 9411893) to deliver unique cloud-based management, features and functionality. TraffiCloud is a registered trademark of All Traffic Solutions.



ALL TRAFFIC SOLUTIONS

ALL TRAFFIC
SOLUTIONS



ATS PRODUCT WARRANTIES

All Traffic Solutions is committed to providing the best value in all our products. To underscore this ongoing commitment, all ATS-manufactured signs purchased on or after January 1, 2019, come standard with a 3-year manufacturer's warranty. Products eligible for the 3-year manufacturer's warranty are Shield 12 and Shield 15 radar speed signs, SpeedAlert 18 and SpeedAlert 24 radar message displays and InstAlert 18 and InstAlert 24 variable message signs.

We also offer the ATS Premier Care Plan with your current ATS TrafficCloud® Remote Management Software subscription.

WARRANTY COMPARISON

ATS Premier Care Plan & ATS 3-Year Manufacturer's Warranty

All sign batteries are discounted under the Premier Care Plan. All accessories are discounted under Premier Care except:

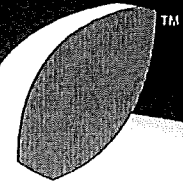
- Trailer-related items
- Laptops and tablets
- Solar panels
- Carrying cases

Feature	Premier Care Plan	ATS 3-Year Manufacturer's Warranty
Hardware defect repair	Entire product lifespan, provided the product has an active Premier Care subscription	Three years from the date of delivery
Dedicated Customer Support Center	Comprehensive hardware and software troubleshooting support	Troubleshooting to determine hardware defects
Remote diagnostics by ATS Support Team	Remote access to signs for performing comprehensive hardware and software diagnostics	Not included
Software and firmware updates	Included	Not included
Return from ATS repair center (manufacturer defect repairs only)	No charge	No charge
Shipping to and from ATS repair center (non-manufacturer defect repair)	Customer pays shipping	Customer pays shipping
Damage resulting from misuse, abuse, or using the product in ways it was not intended	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Vandalism	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Battery and accessory discounts	50% off the regular price	No discounts
LFP battery replacement	1 year + 50% off additional or replacement batteries	1 year
SLA battery replacement	1 year + 50% off additional or replacement batteries	3 months
Trailer battery	1 year	6 months
Power case batteries (Must be sent back to ATS for repair)	1 year + 50% off replacement batteries	6 months
Accidents	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Damage due to incorrect installation or operation	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Acts of nature	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply
Normal wear and tear such as frayed cords or cables, broken connectors, scratched or broken enclosures	Covered at 50% of standard ATS repair rates	Standard ATS repair charges apply

PRODUCT SPECIFICATIONS

SHIELD RADAR SPEED SIGN

ALL TRAFFIC
SOLUTIONS



Shield Speed Display

- 3 units to cover any application
 - **Shield 12 or 12B:** 12" x 6" digits, 112 LED/digit
- Size, weight without battery
 - **Shield 12:** 15.5" x 13.5" x 3.12", 12 lbs
- **Universal Mounting System:** attach to pole, trailer or vehicle hitch mount
- Integral camera for awareness and alert driven images
 - 640 x 480 daylight images (optional in Sh12B)
- **Radar:** K Band (24.15 GHz), FCC Certified, no license required, +-1 mph accuracy, 11 degree square pickup area, 5-105 mph (8-150 KPH), range: 1200+ ft. (12B, 15B range: 400')
- Meets MUTCD Specifications

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
- Changeable speed limit sign
- **Dependent Message:** Send speed data to an InstAlert
- Variable Message Sign to display messages tailored to vehicle's speed
- **Schedule:** Change mode or speed limit up to 13 times/day
- Collect traffic data – vehicle volume by speed and time – in all modes
- Sign returns to last configuration when power applied

Shield Programming Methods

On-Board Programming (standard on all units)

- Set speed limit
- Set display mode

ATS PC Sign Manager Local Communication

(PC control/USB connection: Standard with on all signs)

- PC based client software
- Connect to sign via USB or Bluetooth (optional)

ATS Android App Local Communication (Optional):

- Android OS wireless Bluetooth control local to unit
- Android device can be phone or WiFi device with Bluetooth

Local Communication Features:

- Create and change modes and settings
- Local data retrieval and management
- Local image retrieval and management from internal camera
- Manage all unit settings, automatic sync with TrafficCloud web
- Based Management (optional)
- All traffic data can be saved for online management and backup
 - Retrieve data and save to TrafficCloud, generate limited reports online from hosted data

TraffiCloud™ Web-based Management Services using integral cell modem for remote management

(See TraffiCloud specification for more information)

- Turnkey system. Remote sign connection functional upon ship. Unit connects to TraffiCloud system when sign powered
- Fully hosted web-based management system
 - Internet-connected computer with browser provides anywhere access on all browser capable, connected devices
 - No IT Involvement or support necessary. System bypasses customer network eliminating access issues
 - Cellular provided by ATS, no separate cellular charges
 - Hosted database requires no setup or maintenance by customer

App

All apps included in Traffic Suite:

- **Equipment Management:** Change messages and settings remotely, monitor sign online
- **Reporting:** Online data retrieval and management, analysis and enhanced report generation
- **Image Management:** Online image retrieval and management of images from internal camera
- **Alerts:** Notifications for low battery and tampering, high speed and congestion, alerts can include images
- **Mapping:** Visually manage equipment and data
- **PremierCare:** Enhanced warranty and real-time monitoring

Shield Speed Programming

- Configure the following parameters via ATS PC Sign Manager, ATS Android App or TraffiCloud Web-Based Management Service (optional):
 - Speed limit
 - Maximum speed displayed
 - Display on/off/specific mph activation
 - Violator Alert 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
- Set time via PC or sync with cell signal
- Sign firmware field and remotely upgradeable

Scheduling

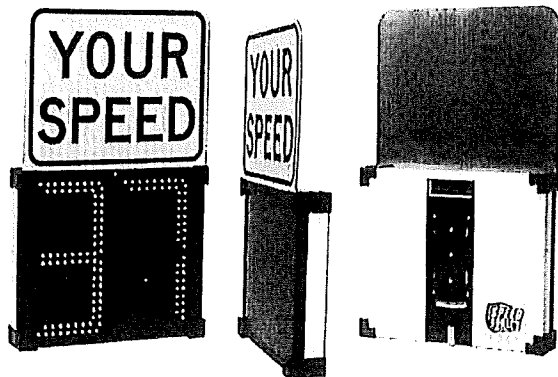
- **All Days:** Schedule up to six different modes for up to 13 different time periods in a 24 hour day, repeats in each 24 hour cycle
- **Seven Days:** Schedule up to six different modes for up to 13 different time periods in a 24 hour day for each of seven days, repeats in each seven day cycle
- All messages and scheduling reside on the sign – no external hardware necessary
- Schedules can be saved for loading on multiple signs
- Program schedule via TraffiCloud, ATS PC Sign Manager or ATS Android App
- Camera activation available in schedule options
- Internal real time clock, time and schedule maintained with power disconnected

Shield Data Logging Option

- Traffic data reporting using TraffiCloud Online Reporting App
- Collect data with TraffiCloud automatic service or local collection with ATS PC Sign Manager or ATS Android App with data saved to the TraffiCloud
- Reports include tables and charts to address all constituents with the most applicable data presentation
- All reports exportable to Excel, CSV and PDF

COMPATIBLE WITH THESE ATS PRODUCTS

Engineered and Manufactured in the United States of America



Shield 12



Shield 12 with yellow YOUR SPEED wrap

- Automatic Data Collection - TrafficCloud
 - Data retrieval at least eight times per day
 - near real time reporting, memory never full
 - All data in one database, available for analysis including compliance comparisons by location
 - Access reports from interactive map view by location

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
- Vehicle counts by speed range and time of day
- Compliance by speed range with three ranges
- Enforcement report showing highest speed and volume violators over selected locations where data collected
- **Local Data Collection:** ATS PC Sign Manager or Android App
 - All data collected hosted in online TrafficCloud database for anywhere access

- Download traffic data from sign with USB or Bluetooth connection
- 30 days of high volume data minimum, data collection rolls over when memory reaches capacity

Construction

- "YOUR SPEED" sign
 - High intensity prismatic reflective background
 - **Shield 12:** 15.5" x 13.5"
 - Sign stores for compact storage and protects sign face, thumbscrews and tamper proof hardware included
 - 3.5" high MUTCD 'C' letters
- **LED Pixels:** Amber 595nm, 30-degree viewing angle, 100,000 hours, black background, (MUTCD compliant)
- Conformal coating on all circuit boards
- Integral handle
- Weatherproof, NEMA 4, IP65 sealed electronics compartment;
- Drip proof, vented battery compartments (2)
- 1/4" tinted, non-glare, UV stabilized polycarbonate face
- Entire face removable for service
- Tamper resistant mounting hardware pocket, hardware secured behind enclosure lock

PRODUCT SPECIFICATIONS: SPEED RADAR SHIELD DISPLAY

- Aluminium chassis, 14 ga, 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
- -40 to 160 F operating temperature range, 95% humidity non-condensing (-20F for Bluetooth communication, 5F for internal camera)

Shield Power

- **Power Input, Max:**
 - **Shield 12:** 12 VDC, 1.1 A, 15 W
- Power saving circuitry and automatic dimming for ambient light conditions with adjustable dimming range and manual display brightness override

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:** Capacity for two 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 two batteries in unit for extended portable use
 - Solar panel assist: 40W or 60W 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

Standard Shield System Components

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

Optional Shield Components & Features

- TrafficCloud Web-Based Remote Management System
- Padded carrying case
- Extra mounting brackets

- Violator Alert, 12 white LED flash to alert violators
- Metric display
 - **Shield 12:** 2-digit KPM display
- Fully compatible with Speed Dependent Messaging option when used with an InstAlert Variable Message Sign - see Speed Dependent Message System section
- **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 1 to 10 seconds per radar event
- Bullet resistant face
- **Tamper alarm:** ATS-5 trailer

Shield Mounting Options

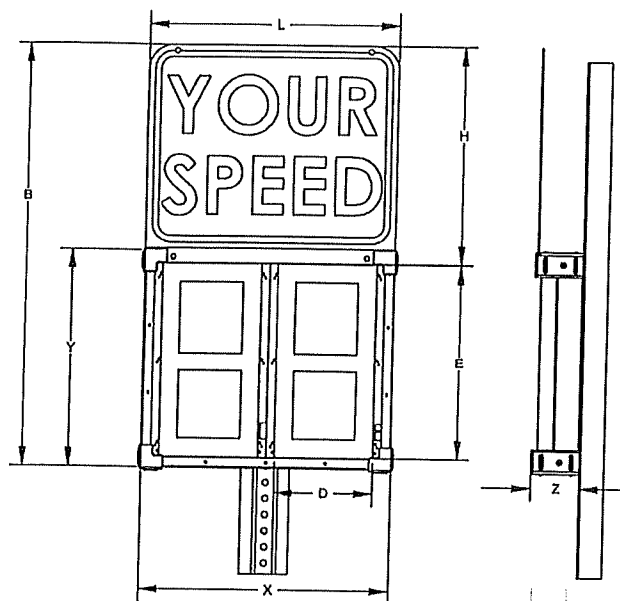
- Pole mount standard with included bracket, hardware
 - NCHRP 350 approved on 4" aluminium pole (SS-135)
- **Vehicle Hitch Mount**
 - Mounts sign 30" to bottom of sign from receiver tube (final height dependent on receiver height)
 - Fits 1 1/4" or 2" receiver, adapter included, 1/2" hitch pin
- Locking 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:**
 - Folds for easy storage and portability
 - **Shield 12:** 60" to bottom, 73" to top, add 13" for upper leg position

PremierCare Warranty

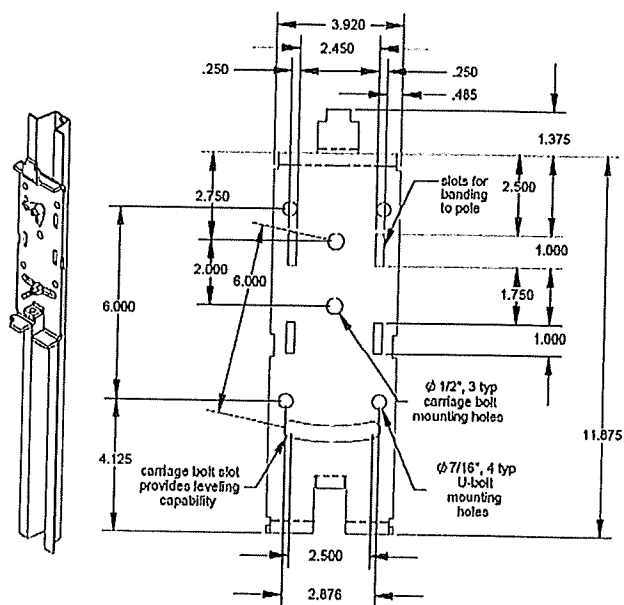
- 1-year warranty (three months on Li-Ion batteries)
- Available with TrafficCloud subscription
 - Warranty service fully covered
 - Product software upgrades free
 - Vandalism and accidental damage (non-warranty) at 50% off list price

PRODUCT SPECIFICATIONS: SPEED RADAR SHIELD DISPLAY

SHIELD 12 DIMENSIONS

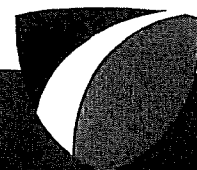


SHIELD 12 MOUNTING BRACKET



Dim	X	Y	Z	B	D	E	L	H
Sh12	15.5	13.5	3.13	26.3	5.75	12	15.5	13.5

**ALL TRAFFIC
SOLUTIONS**



All Traffic Solutions

All Traffic Solutions, 14201 Sullyfield Circle, Suite 300, Chantilly, VA 20151

P. 866-366-6602 E. sales@alltrafficsolutions.com

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REQUEST A QUOTE NOW