PRODUCT SPECIFICATIONS:

SPEEDALERT 24 RADAR MESSAGING SIGN

**SpeedAlert 24 Radar Message Sign**

- SpeedAlert 24: (SA24): 24” x 60” full matrix
- (SpeedAlert 18 (SA18) 18” x 28” full matrix also available – See separate SpeedAlert 18 Spec Sheet)
  - Size, Weight without battery
  - Folds to fit in police cruiser trunk, SUV. 43 lbs
  - Open: 28” x 60” x 1 5/8”
  - Folded dimensions: 28” x 30” x 3 ¼”
- Full matrix display
- Universal mounting system: attach to pole, trailer or vehicle hitch mount
- Integral camera for awareness and alert triggered images: 640x480 daylight images
- Internal K band radar with adjustable sensitivity
- Power saving circuitry and automatic dimming for ambient light conditions with adjustable dimming range and manual display brightness override
- Meets MUTCD Specifications

**SpeedAlert Operation Modes**

- **Message Mode**: Display one message, up to 6 screens
- **All Messages**: Sequence all messages in sign memory
- **Speed Display**: Display approaching vehicle’s speed with “YOUR SPEED” LED message
- Dependent Message: Display targeted messages based upon approaching vehicle’s speed
- Changeable speed limit sign
- **Stealth or Display Off**: Collect traffic speed and volume data with no display
- **Schedule**: Change message and/or mode up to 13 times/day
- Collect vehicle volume by speed and time data in all modes
- Sign returns to last configuration when power applied

**SpeedAlert Messages**

- SA24: 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/line, (1) 10 1/4” char, 8/line
- Up to 6 screens per message
- Full graphics capability, each LED individually controllable
- Variable display time, flash and reverse rates for each screen
- Scroll through 25 user defined onboard messages using selector buttons built into sign, no training necessary
- Ability to sequence messages for up to 144 screen animation
- Message power efficiency calculator in software
- Actual sign preview and unlimited message storage using TraffiCloud™ Web-based Remote Management Service, ATS PC Sign Manager or ATS Android App
- Messages on sign retained when power removed
- Sign returns to last message when power applied
- Conditional Messaging – Accept local or remote data and dynamically display messages driven off data, and/or incorporate into messages

**SpeedAlert Programming Methods**

*On-Board Programming (standard on all units)*

- Select message from sign’s memory
- Select operation mode and speed limit
- Buttons time out to prevent tampering
- TraffiCloud Web-based Remote Management Services using integral cell modem for remote management (See TraffiCloud Specification for more information):

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

Apps
All apps included in Traffic Suite:
  o **Equipment Management**: Online sign management - Change messages and settings remotely
  o **Reporting**: Online data retrieval, management and analysis, Enhanced report generation
  o **Image Management**: Online image retrieval and management of images from sign’s internal camera
  o **Alerts**: Notifications for low battery and tampering, high speed and congestion; Alerts can include images
  o **Mapping**: Visually manage equipment and data
  o Premier Care Perpetual Warranty

**ATS PC Sign Manager**
Local Management using PC with USB connection standard with all signs, Bluetooth optional
  • PC based client software

**Connect to sign via USB or Bluetooth(optional)**

**ATS Android App**: Local Management (Optional):
  o Android OS wireless Bluetooth control local to unit
  o Android device can be phone or WiFi device with Bluetooth

**Local Management Features**: (PC and Android)
  • Create and change messages, modes and settings
  • Local data retrieval and management
  • Local image retrieval and management from sign’s internal camera
  • Manage all unit settings, automatic sync with TraffiCloud Web Based Remote Management Service if subscribed
  • All traffic data and messages saved for online management and backup with optional Traffic Suite
    o Retrieve data and save to TraffiCloud at no cost, generate limited reports online from hosted data. Extended reports available with TraffiCloud subscription
    o Create message and save to TraffiCloud library, messages available on all ATS Android App or PC Sign Manager devices with TraffiCloud™ subscription

**SpeedAlert Programming**
Configure the following parameters via TraffiCloud Web-Based Management System, ATS Android App or PC Sign Manager

**Messages**
  o Create and load message using “Display Now” feature
  o Load 24 messages into sign’s memory
  o Scroll messages in sign’s memory

1. SpeedAlert 24 Folding
Engineered and manufactured in the United States of America

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- Display signs stored in TraffiCloud Web, ATS Android App or PC Sign Manager

**Speeds**
- Speed limit
- Maximum speed displayed
- Display on/off/specific mph activation
- Radar sensitivity (range)
- Speed limit sign operation: Change speed limit up to 13 times per day schedule
- Metric capable display with hundreds digit

**Set time via PC, Android or sync with cell signal (TraffiCloud)**

**Sign firmware field and remotely upgradeable**

**Speed Dependent Message System**
- Different messages for each of 5 speed ranges
  - No cars
  - Cars $\leq$ speed limit
  - Cars $>\,$ Speed Limit, $< x$
  - Cars $> x <$ upper speed
  - Cars $> x$
- Ranges dependent on speed limit setting only, so simple speed limit change adjusts all dependent message ranges
- Independent Maximum Speed Displayed setting
- Speed Dependent Messages can be any SA24 messages, including
  - “YOUR SPEED” screen with 24” speed display digits
  - “SPEED LIMIT” screen with 24” speed limit display digits

**Scheduling**
- All days, multiple messages: schedule up to 50 different messages or modes for up to 13 different time periods in a 24 hour day, repeats in each 24 hour cycle
- 7 day, multiple messages: schedule different messages or modes for up to 13 different time periods in each 24 hour day for each of 7 days, repeats in each 7 day cycle; up to 50 different messages can be used over the 7 day period
- All messages and scheduling reside on the sign – no external hardware necessary
- Program schedule via TraffiCloud Web, ATS Android App or ATS PC Sign Manager, Save to load onto multiple signs

- Camera activation controlled in schedule windows
- Internal real time clock, time and schedule maintained with power disconnected

**SpeedAlert Data Logging Option**
- Traffic reports generated using TraffiCloud Web-based Reporting App
- Collect data automatically with TraffiCloud Remote Management or locally with ATS Android App or PC Sign Manager
- Reports include tables and charts to address all constituents with the most applicable data presentation
- All reports exportable to excel, csv and pdf
- Automatic Data Collection – TraffiCloud Web
  - Data retrieval every 15 minutes – near real time reporting, memory never full
  - All data in one database for analysis filtered by location, date and time
  - Access reports from interactive map view by location
- **Local Data Collection:** ATS Android App or PC Sign Manager
  - All data hosted in online database for anywhere access
  - Download traffic data from sign with USB or Bluetooth connection
  - 30 days of high volume data minimum storage on sign, Data collection rolls over when memory reaches capacity

**Reports, local data collection:**
- 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

**Reports, automatic data collection** (TraffiCloud Web based Management Services)
- Enhanced Summary with detail charts and graphs
- Compliance by speed range with 3 ranges
- Enforcement report showing highest speed and volume violators over selected locations
- Effectiveness report showing program performance

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Compatible with these ATS Products

Engineered and manufactured in the United States of America

1. SpeedAlert 24 on Portable Post
2. SpeedAlert 24 on Hitch Mount

Construction

- **LED pixels:** Amber 595nm, 30 degree viewing angle, 100,000 hrs, black background, (MUTCD compliant)
- **LED Density:** 0.6”x1” pitch, 26 x 96 pixel matrix
- **Radar:** K Band (24.15 GHz), FCC Certified, no license req’d, ±1mph accuracy, 12 degree square pickup area, range: 2000+ ft., 5-150mph (8-150 kph)
- Conformal coating on all circuit boards
- Integral handles, two heights
- Weatherproof, NEMA 4, IP65 sealed
- 1/8” Tinted, non-glare, UV stabilized polycarbonate face
- Aluminum chassis, 12 ga, black powder coat finish
- Tamper resistant mounting hardware system, hardware secured behind enclosure lock
- -40 to 160 F operating temperature range, 95% humidity non-condensing (-20F for Bluetooth communication, 5F for internal camera)

SpeedAlert Power

- **Power Input, Max:**
  - 12VDC, 8A max, 96 W max; 4A, 48W typical
- Power saving circuitry and automatic dimming for ambient light conditions with adjustable dimming range and manual display brightness override
- **SpeedAlert 24 Power:**
  - 12VDC locking plug, 30A capacity: Compatible power supplies include:
  - Vehicles’ power port, with optional adapter
  - Trailer wiring adapter for hitch mount
  - POWERcase portable power supply, PC26 or PC36
  - 120 or 220 VAC Power supply in NEMA 4 enclosure
  - ATS 5 Trailer (batteries with optional solar assist: 235 or 470 Ah, 60W solar option)
  - Pole battery box: 156Ah battery with solar assist
- Battery level indicator on sign, ATS Android App, ATS PC Sign Manager or TraffiCloud Remote Management.
- Auto recovery for battery with solar
- Power cable customer replaceable, gold plated connector contacts, high visibility yellow cable

Standard SpeedAlert System Components

- SpeedAlert Radar Message Sign SA24
- ATS PC Sign Manger software with USB cable
- On-Board Controls
- Optional SpeedAlert Components and Features
- TraffiCloud Web-Based Remote Management Service
- ATS Android App, Bluetooth connectivity
- Padded carrying case with accessory pockets, shoulder strap
- **Mounting bracket:**
  - mounts to pole or any surface using any hardware, no tools required
  - tamper resistant hardware compartment
  - rotate bracket for additional 12” of mounting height
  - aluminum with black powder coat
  - sign can be locked into bracket
  - bolt sign to mounting bracket for additional security
  - Mounting hardware supplied
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- **Speed activated 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
- **Tamper alarm** – ATS-5 or ATS-3 trailer

**SpeedAlert Mounting Options**
- **ATS-5 Trailer** (refer to ATS 5 specifications or more info)
- **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 with rear reflector
- **Standard Folding Portable Post**
  - Folds for easy storage and portability
  - 47” to 60” to bottom, 73” to 86” to top depending on leg positions; rotate bracket for additional 12” height
  - Mounting provisions for permanent applications with ¼-20 threaded holes

**Warranty Options**
- **PremierCare Perpetual Warranty** available with current TraffiCloud subscription. Ask your ATS sales representative for details.
- **ATS 3-year Manufacturer’s Warranty** comes standard on all SpeedAlert radar speed displays purchased after January 1, 2019.

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**SpeedAlert Dimensions: Open**

**Mounting Plate**

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SpeedAlert Dimensions: Folded

Mounting Hole Positions