

# SCHOOL ZONE ALERT



## Solution Description

The School Zone Alert solution enhances safety in school zones by alerting motorists of their speed and the presence of a school zone through radar signs and flashing beacons. The solution is designed for excellent visibility in all lighting conditions and can be powered by AC or solar and battery power.

- Radar feedback sign
- Two integrated traffic beacons
- TraffiCloud School Zone Alert Scheduling Software
- 3-year warranty

### Optional Add-ons:

- Full-size 'SPEED LIMIT' sign with customizable speeds
- TraffiCloud Remote Management Software

## Radar Feedback Sign Specifications

- **Digit dimensions:** 12 in. high x 6 in. wide (30.48 cm high x 15.24 cm wide), 112 LED/digits
- **Dimensions, weight without battery:** 13.50 in. high x 15.50 in. wide x 5.67 in. deep, 12 lb. (including mount)
- **Radar:** K Band (24.15 GHz), FCC Certified, no license required, +/- 1 mph (+/- 2 kph) accuracy, DF300 has a 24 x 12-degree pickup area, 5-105 mph (8-150 kph)
- **Range:** 1,200+ ft. (365+ m)
- Meets Federal Department of Transportation MUTCD Specifications

## Beacon Specifications

- **LED Signal Head:** ITE VTCSH LED circular signal
- **LED Color:** Yellow (Amber)
- **LED Signal Housing:** ITE compliant, UV stabilized polycarbonate (yellow)
- **Beacon Size:** 12 in. (30.48 cm) diameter (standard) or 8 in. (20.32 cm) diameter (optional)



- **Power Requirements:** 12VDC / 5W
- **Power Source:** Powered directly by radar sign, no additional power source required
- **Operating Temperature:** -40°F (-40°C) to 165°F (74°C)

## System Communication

**TraffiCloud School Zone Alert Software:** included to manage and monitor the School Zone Alert solution. The first 12 months of the School Zone Alert Scheduling Software are included in all packages. This service can be renewed annually, or the ATS Sign Manager local management software (via USB or Bluetooth) can be opted for at no cost to maintain the School Zone Alert solution.

- See the Optional Components and Features section for more details.

TraffiCloud School Zone Alert Software Includes:



School Zone Alert hardware with horizontal beacon configuration and optional full-size 'SPEED LIMIT' sign

- **Remote Equipment Management:** Change settings remotely, monitor sign and beacon schedules online
- **Real-time Alerts:** Notifications via email or text messages for low battery and tampering, high speed, and congestion
- **Mapping:** Visually manage equipment and data
- **Reporting:** Every TrafficCloud Reports page includes a place to select the Site you want reporting on, a calendar to select the date range, options for report selection and configuration, and for setting up and managing report scheduling. Reports include:
  - Volume by Time: Vehicle counts by hour and date
  - Volume by Speed: Full-day and time-bin breakdowns over selected date range with 5-mph resolution
  - Raw Data Export: Generates data for all traffic by date, including speed measurements (maximum, minimum, mean, 85%, median, and pace speed).

## System Programming

Configure the following parameters via TrafficCloud School Zone Alert Software (subscription required) or ATS Sign Manager:

- Beacon schedule
- Speed limit
- Maximum speed displayed
- Activate display by vehicles as they pass
- Violator alerts (flashing, optional strobe on radar



School Zone Alert hardware with vertical beacon configuration and optional full-size 'SPEED LIMIT' sign

- sign) triggered at a defined threshold speed
- Radar sensitivity (range)
- Change speed limit in the schedule, up to 12 times per day
- Sign flashes when passing vehicles exceed speed trigger, can be programmed to go blank when vehicles exceed maximum display setting
- Set time via PC or sync with cell signal
- Sign firmware upgradeable remotely or in the field

## System Scheduling

- **All Days:** Schedule up to six different modes for up to 13 different time periods a day, repeat in each 24-hour cycle
- **Seven Days:** Schedule up to six different modes for up to 13 different time periods a day for each of seven days, repeat in each seven-day cycle
- Schedules can be custom made, activating only during school hours and accounting for events like holidays and school closures
- Schedules can be saved for loading on multiple signs
- Sign includes internal real-time clock; time and schedule retained when power disconnected

## Optional Components and Features

- Full-size 'SPEED LIMIT' sign
  - **Dimensions:** 48 in. high x 24 in. wide (121.92 cm high x 60.96 cm wide)

- **Speed Digits:** Custom speeds upon request
- **TraffiCloud Remote Management Software:** includes TraffiCloud School Zone Alert Software functionality plus advanced traffic data reporting, remote management, and comprehensive warranty
  - Traffic data reporting using the full-featured TraffiCloud Remote Management Software cloud-based portal. Reports include:

**Compliance & Risk:** Identifies the volume of compliant drivers vs. low, medium, and high risk drivers

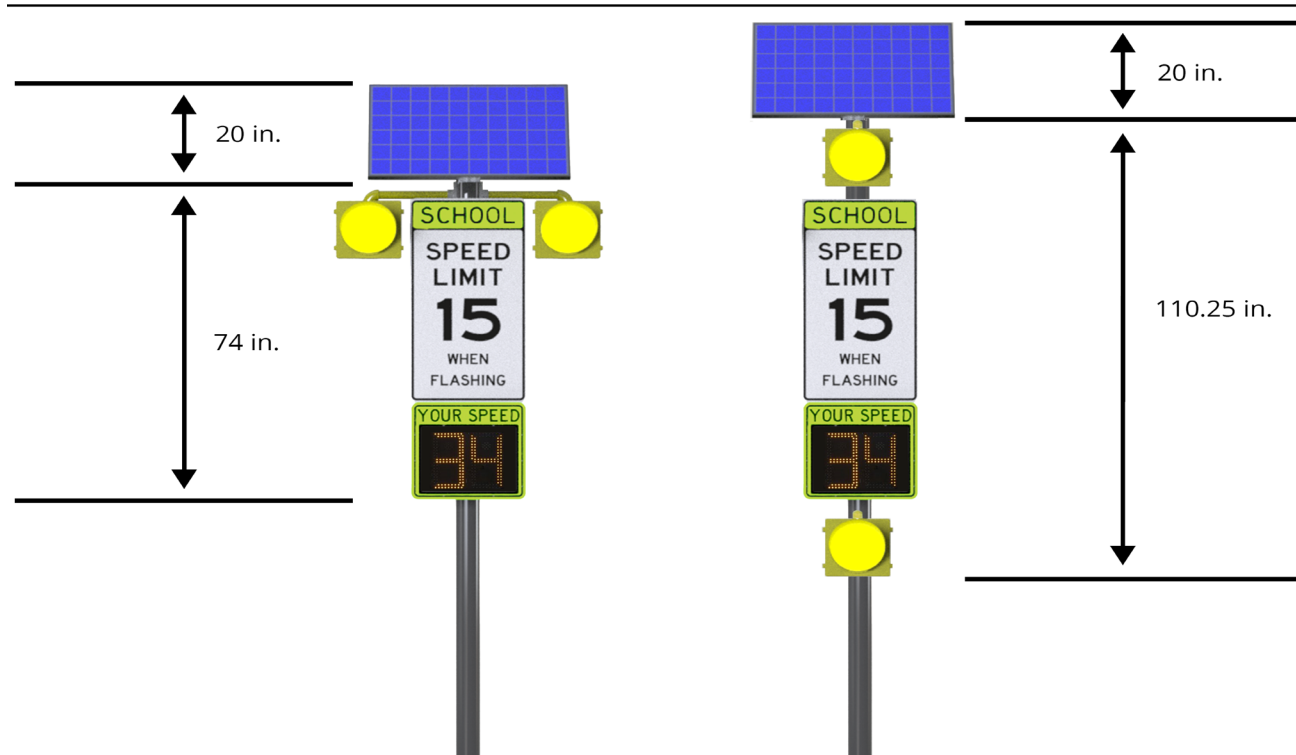
**Enforcement Priorities:** Analyzes and compares traffic data, listing time periods at Sites with the worst violation numbers

**Speed Effectiveness:** Measures the effectiveness of signs in voluntary speed reduction, comparing speed at first detection by the sign to when the vehicle passes

**Extended Speed Summary:** Provides a concise summary of speeds at a given Site

- Reports include tables and charts to address all stakeholders with the most applicable data presentation
- TraffiCloud data retrieval whenever alerts are triggered and at least every three hours – memory is never full
- All data in one database, available for analysis, including compliance comparisons by Site
- All reports exportable to Excel, CSV, and PDF
- **Premier Care Warranty (*See product documentation for full details*):**
  - Covers any manufacturing defect on an ATS-manufactured unit during its lifespan, provided the unit is subscribed to TraffiCloud Remote Management Software
  - Ongoing hardware defect repairs, 50% off on accidental damage or vandalism repairs, and 50% off on any additional accessories (exceptions apply)
- **Perpetual Features (*no subscription required*):**
  - ATS Sign Manager: manage the School Zone Alert solution locally via Bluetooth or USB on a Windows PC
  - ATS Android app

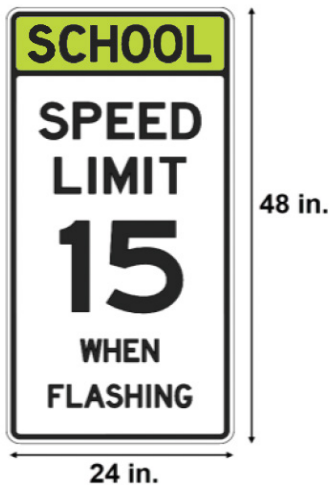
### School Zone Alert Hardware Dimensions



[Figure 1] Horizontal beacon placement

[Figure 2] Vertical beacon placement

### Optional Full-size 'SPEED LIMIT' Sign Dimensions



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