PRODUCT SPECIFICATIONS:
INSTALERT VARIABLE MESSAGE SIGN

InstAlert Variable Message Sign
- **Open Dimensions:** 1 5/8” x 28” x 60”
- **Folded Dimensions:** 3 ¼” x 28” x 30”
- Folded sign fits in police cruiser trunk, SUV hatch
- **Full Matrix Display:** 26 x 96 pixels, 0.6”x1” pitch
- **LED Pixels:** Amber 595nm, 30 degree viewing angle, 100,000 hours, black background, MUTCD compliant color, universal display modules
- Meets MUTCD specifications
- On-board message selector buttons to select between 25 internal messages and modes with anti-tamper lockout
- Local and remote management and monitoring options
- Sign has integral active cell modem allowing TraffiCloud™ Web-based Management Services for remote management
- Integral camera for awareness and alert driven images
  - 640 x 480 daylight images
- Power saving circuitry and automatic dimming for ambient light conditions with adjustable dimming range and manual display brightness override
- Conformal coating on all circuit boards
- Integral case handles and nylon web handles
- **Weight:** 43 lbs
- Weatherproof, inherently sealed design
- 1/8” tinted, non-glare, UV stabilized polycarbonate face
- Entire face removable for service
- Aluminium chassis, 12 ga., Black powder coat finish
- Mounting provisions for permanent applications, (12) ¼-20 threaded holes
- -40 to 160 F operating temperature range, 95% humidity, non-condensing (-20F for Bluetooth comm.)
- Withstands 70 mph winds

InstAlert Operation Modes
- **Message Mode:** Display one message, up to six screens
- **All Messages:** Sequence all messages in sign memory
- **Schedule:** Change message and/or mode up to 13 times/day
- Speed based modes available in the SpeedAlert 24 configuration
- Sign returns to last configuration when power applied

InstAlert Messages
- **1-3 line messages**
  - 1 line: 24” H x 12.5” W characters, four per line
  - 2 lines: 10 1/4” H x 5.75” W characters, eight 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 six screens per message
- Message power efficiency calculator in software
- Variable display time, flash and reverse rates for each screen
- Full graphics capability, each LED individually controllable, programmable from PC, PDA or remotely
- Ability to link multiple messages for up to 144 screen animation
- Scroll through 25 user defined onboard messages using selector buttons built into sign, no training necessary; buttons on unit become inactive after timeout to prevent tampering, reactivate by reapplying power
- Unlimited message storage on PC, Android device or remote server
- Messages on sign do not get erased when power removed
- Sign returns to last message when power applied
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Compatible with these ATS Products
Engineered and manufactured in the United States of America

- Actual sign preview on PC, Android or TraffiCloud

InstAlert Programming
Program and Monitor the Sign Three Ways:
- On-Board programming (standard on all units)
- Select message from sign’s memory
- Select operation mode

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
- Apps: All apps included in message suite:
  - Equipment Management: Change messages and settings remotely, monitor sign online
  - Image Management: Online image retrieval and management of images from internal camera
- Alerts: Notifications for low battery and tampering, alerts can include images
- Mapping: Visually manage equipment and data
- PremierCare perpetual warranty

ATS PC Sign Manager
Local Management using PC with USB connection standard with all signs
- PC based client software
- Connect to sign via USB or Bluetooth (optional)

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

Local Management Features:
- Create and change messages, modes and settings
- Local image retrieval and management from internal camera
- Manage all unit settings, automatic sync with TraffiCloud Web Based Management
- All traffic data and messages can be saved for online
PRODUCT SPECIFICATIONS: INSTALERT RAPID MESSENGER VARIABLE MESSAGE SIGN

management and backup with optional TraffiCloud Message Suite
  - Create message and save to TraffiCloud library, messages available on all ATS Android App or PC Sign Manager devices
  - Sign firmware field and remotely upgradeable

InstAlert Settings
- Configure the following parameters via PC, Android or TraffiCloud Web-Based Management System:
  - Load instaMESSAGE using ‘Display Now’ feature
  - Load 24 messages into sign’s memory
  - Scroll messages in sign’s memory
  - Display signs from server or local device memory
  - Set sign mode
  - Upload schedule
  - Set automatic dimming range minimum and maximum levels or manually override display brightness
  - Internal real time clock, time maintained with power disconnected
  - Set time via local device or sync with cell signal

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
- **Seven Day, Multiple Messages**: Schedule different messages or modes for up to 13 different time periods in each 24 hour day for each of seven days, repeats in each seven day cycle; up to 50 different messages can be used over the seven 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

Data Logging Option for InstAlert units with the optional internal radar option – SpeedAlert 24
- Upgrade to the SpeedAlert 24, adding traffic radar to the InstAlert to enable collection of traffic data and speed display functionality
- Refer to the SpeedAlert 24 specification sheet for more information

InstAlert Sign 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

InstAlert 24 Power:
  - **12VDC Locking Plug, 30A Capacity**: Compatible power supplies include:
    - Vehicle’s 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 InstAlert System Components
- InstAlert Variable Message Sign IA24
- ATS PC Sign Manger software with USB cable
- On-Board Controls

InstAlert Mounting Options
- ATS-5 Trailer (refer to ATS-5 specifications for more information)
  - Options using the InstAlert mounting bracket
  - Hitch mount
  - **Sign Height**: 25” to bottom, 53” to top of sign from receiver tube (final height dependent on receiver height, flip mounting bracket for an additional 12”)
    - Fits 1 ¼” or 2” receiver, adapter included
    - ½” hitch pin
    - Locking rotation adjustment on 15 degree increments over 180 degrees,
    - +/− 5 degrees tilt to adjust LED aim for maximum brightness

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• White powder coat finish with rear reflector
• Not intended for operation above 15 mph

**Telescoping Hitch Mount**
• All features of standard hitch mount, plus
• **Sign Height:** 53” to bottom, 81” to top of sign from receiver tube (final height dependent on receiver height, flip mounting bracket for an additional 12”)

**Standard Folding Portable Post:**
• Folds for easy storage and portability
• 42” to 55” to bottom, 70” to 83” to top of sign depending on leg positions, rotate bracket for additional 12”

Optional InstAlert Sign 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
  • Aluminium with black powder coat
  • Sign can be locked into bracket
  • Bolt sign to mounting bracket for additional security
  • Mounting hardware supplied
• Internal radar allowing for speed display, speed dependent messaging and speed and volume data collection - SpeedAlert 24
• Drive Times sensor-free Time to Destination Service – Travel time data sent to sign every minute

**Warranty**
• 1-year warranty (three months on Li-Ion batteries)

**PremierCare**
• Extended warranty
• Product software upgrades free
• Vandalism and accidental damage (non-warranty) at 50% off list price

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**InstAlert Dimensions: Open**

![InstAlert Dimensions Diagram]
InstAlert Dimensions: Folded

Mounting Hole Positions

Dimensions: Mounting Plate

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TraffiCloud leverages our patented technology (US Patents 8,417,442; 8,755,990; 9,070,287; 9,411,893) to deliver unique cloud-based management, features and functionality.