PRODUCT SPECIFICATIONS:

INSTALERT 48 / 68 LARGE FORMAT MESSAGE BOARD

InstAlert 48

Full matrix display, 48 x 27 pixels, 1296 total,
47 mm pitch; 55 H x 96 W x 12 D
Pixel: 4 LED with optical lenses and sunshades for
optimal visibility, 5 degree tilt downward for visibility

- Amber LEDs, 590 nm nominal
- Fonts
  - o 12" default height with 5x7 pixels, 3 lines, 8 characters/line
  - o 21" height with 5 x 12 pixels, 2 lines, 8 characters/line
  - o 42" height with 7x23 pixels, 1 line, 4 characters/line
  - o 8" height with 4x5 pixels, 4 lines, 9-12 characters/line

InstAlert 68

- Full matrix display, 48 x 27 pixels, 1296 total, 66 mm square pitch; 75 H x 138 W x 12 D
- Pixel: 4 LED with Optical lenses and sunshades for optimal visibility, 5 degree tilt downward for visibility
- Amber LEDs, 590nm nominal
- Fonts:
  - o 12 fonts, including
  - o Default: 18" height with 5 x 7 pixels, 3 lines, 8 characters/line
  - o Largest: 60" height with 11 x 23 pixels, 1 lines, 4 characters/line
  - o Smallest: 12" height with 4 x 5 pixels, 4 lines, 9-12 characters/line
- Full range of MUTCD-compliant graphics
- Auto-dimming with two photocells, one facing rear and one facing front
- Operating temperature range
  - o Operating: -20 to 165 F
  - o Storage: -40 to 185 F
- Temperature sensor controlled fans (2) with adjustable settings to prevent overheating
- NEMA TS 4-2005 compliant for ambient temperature, vibration, shock, ESD, radio interference
- Easily replaced display modules
- Polycarbonate display window, 0.15" thick, anti-glare UV resistant grade
- Door fully opens for service, including when in stored position; Clasps hold display window closed, can be locked with padlock

- Display cabinet: Aluminum, 15 ga
- All circuit boards conformally coated
- Auto display board initialization function for position, no DIP switches
- Individual pixel fault detection

Controller

- In-cabinet, full color 7" touch screen controller (ICC) with continuous message preview, no laptop required
- Display shuts off automatically after 10 minutes of inactivity
- Multi-level password protection
- Messages
  - o WYSIWYG programming (what you see is what you get)
  - o Text justification to center text - horizontal and vertical
  - o 90 preprogrammed permanent messages with FHWA standards
  - o 250 changeable message capacity
  - o 10 volatile messages for ITS systems
  - o Easy blanking
- Message creation
  - o Up to 10 screens per message, .1- to 25- second display time per screen
  - o Blinking modes: each screen of a message with adjustable rates per screen
- Schedule capability with internal real time clock
- LEDs indicate solar charging, power shutdown, schedule mode active, radar power
- Locked controller cabinet with 2 quarter turn latches
- NTCIP compliant, Version 2
- TrafficBridge™ Communication Module, Antenna, GPS
  - o 3G communication
  - o Monitor sign location
- TraffiCloud™ Message Suite - NTCIP
  - o Turnkey hosted system
  - o Low battery alerts
  - o Map view for fleet management
  - o Includes cell service
  - o Mass update capability

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Engineered and manufactured in the United States of America

InstAlert 68 with trailer and InstAlert 48 with trailer.

- TraffiCloud Traffic Suite - NTCIP
  - All features in Message Suite plus
  - Automatic Data Collection
  - Hosted data available to run variety of reports
  - No IT support necessary

Trailer

- Telescoping tower with 360- degree display rotation on trailer base, disk brake holds display in place during operation, cradles support and holds board in travel position, no locking pins required. Welded structural steel
- Sight tube for display positioning
- Overall Dimensions
  - Travel: 152" L x 84" W x 103" H with tongue
  - Deployed: 83" L x 96" W x 142" H with tongue removed
- Weight
  - Manual winch lift: 1580#, 717 kg
  - Hydraulic lift: 1800#, 817 kg
- Swivel jacks at each corner. 2000 lb capacity each
- Optional outriggers at each corner available
- Axle capacity 2000 lb with 5 bolt, 4.5 in BC hub; Double eye leaf springs
- Tires: ST205/75D15 steel belted trailer tires, load rating B
- White powder-coat finish with 5 step high pressure phosphate wash and primer coat
- Manual lift with safety friction braking winch, 1500# capacity, ¼" cable, with spring loaded locking pin; Tower lift guided with nylon blocks
- Optional hydraulic lift system
  - locking pin for deployed position; electric motor driven
- 15 in tires, bolt on 16ga steel fenders
- 2-inch ball hitch standard, other hitch and pintle options available
- Safety chains with latching S hooks

- Removable 3 in square drawbar for shipping and for added theft protection; includes 800 lb jack with caster wheel
- DOT approved lighting - stop, turn lights; amber, red marker lights, license plate light; Flat 4 position molded plug standard, 7 pin plug available
- Tie downs on each corner

Power

- One 85W solar panel with solar controller; 130W, 170W, 260W arrays available
- Four AGM 6V flooded batteries wired in series/parallel for 12VDC system, 430 ah total capacity (Sealed AGM batteries optional)
- 30 day autonomy without sun
- 15-amp charger, 120VAC
- Locked battery box with user-supplied padlocks; Optional High security box with hidden hinges and hidden shackle padlocks
- Fused system, automotive style

Options

- Radar
  - K band radar, FCC approved, CE Compliant
  - 1000 ft range
  - 5 - 138 mph, +- 1 mph to 40 mph, +- 2 mph >40 mph
  - Calibration not required
  - Enables traffic data collection, approach only (Traffic Suite)
  - Volume by time, speed
  - Compliance
  - Speed by time, average and 85th percentile
- Remote video monitoring system