# NATIONAL signal LLC

# Sunray 90
## *Portable Message Sign Series*



## ABOUT OUR MESSAGE SIGN

The Sunray 90 is a compact full matrix manual lift sign capable of displaying graphic symbols and multiple font sizes through the color touch screen. Dynamic sizing automatically fits your message as you type and message scheduling allows you to select the day, week and time that chosen messages should display.

The compact design makes it easy to maneuver and locate in tight or crowded areas. It's also ideal for situations including urban areas and special events.

Add FleetFinder and you can visually locate your fleet of signs and change messages from almost anywhere.

## Options

**REMOTE OPERATION**
Standard cellular modem or FleetFinder™

**SPEED DETECTION**

**COMBO HITCH**
With 8" to 18" adjustment

**HIDDEN SHACKLE LOCKS**
For securing batteries

**WHEEL LOCKS**

**ELECTRO HYDRAULIC LIFT**

**GPS MODULE**

## Features

- ✓ AllnGaP LED technology
- ✓ Numerous pre-programmed messages, MUTCD messages, and operator-created messages
- ✓ Environmentally friendly
- ✓ Cost effective
- ✓ Reliable and easy to operate
- ✓ Optional hydraulic lift and remote programming
- ✓ Replace characters without the need of tools
- ✓ 3 or 4 LED's per pixel

Accessour website by scanning our QR code

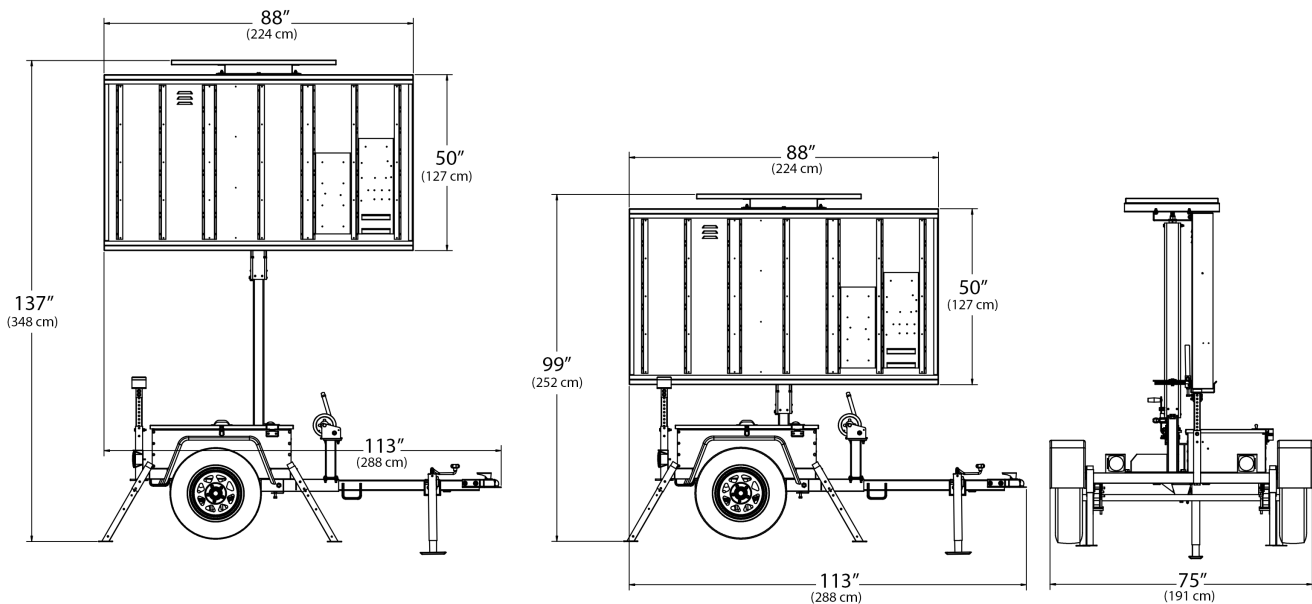SCAN ME

## Trailer Construction

| | |
|---|---|
| Width across fenders | 75" |
| Drawbar | 3" x 3" x .375" wall steel tube / removable |
| Fenders | formed steel replaceable |
| Frame | 2" x 3" x 1/8" wall tubing |
| Length w/ drawbar | 106" (42" x 75"), 113 (50" x 88") |
| Length w/o drawbar | 83" (42" x 75"), 90" (50" x 88") |
| Height sign up | 137" |
| Height sign down | 99" |
| Hitch | 2" ball class II 3500 lb capacity |
| Jacks | (4) slide, (1) swing type |
| Tire size | ST205/75-D15 load C |
| Weight | 1250 lbs |
| Lift mechanism | 1,000 lb with double disc brake 1/4" diameter steel rope cable rated 4,400 lb. Elecro-hydraulic optional |

## Batteries and Solar Collectors

| | |
|---|---|
| Batteries | 12v deep cycle |
| Battery charger | 15A fanned cooled |
| Battery enclosure | Lockable, ventilted, steel |
| Solar collector | Crystalline sollicon, 120w |

## Display

| | |
|---|---|
| Sign size | 42" x 75", 28 x 48 pixels<br>50" x bb", 28 x 48 pixels |
| Fonts | 7" H 10/line (3) lines<br>10" H 9/line (3) lines<br>11.5" H 9/line (3) line<br>24" H 3/line (1) line |
| Window | 1/8" clear polycarbonate |
| Sign case | One piece, aluminum, powder coat black |
| LED's | Amber, 590nm, 4 per pixel |
| Characters | Replaceable without need for tools |

## Control

| | |
|---|---|
| Type | Proprietary embedded, fully NTCIP compliant |
| Dimming | Manual or automatic |
| Remote Comm | Cellular capable |
| Messages | 50 user programmable (6 pages each), 200 pre-programmed including MUTCD symbols and arrows |
| Message scheduling | 36 events |
| Interface | Color touch tablet with built-in graphic and text libraries |

## Dimensions



88" (224 cm)
50" (127 cm)
137" (348 cm)
113" (288 cm)

88" (224 cm)
50" (127 cm)
99" (252 cm)
113" (288 cm)

75" (191 cm)