

## MODEL LCRDM18 SPECIFICATIONS

18" Character, DC Powered, Dolly Mounted Radar Speed Monitor

### Dolly Dimensions

- Height: 48"
- Width: 31"
- Depth: 18"

### Dolly Specifications

- Frame: 1" x 1" x 1/8" tubular aluminum
- Paint: Powder paint white
- Salt spray fog: 1,000 hours
- UV Resistance: 500 hours
- Wheels and Tires: 10"
- Wiring: Enclosed in display cabinet

### Sign Frame

- Frame constructed of extruded aluminum, 6063 alloy with a T5 temper.
  - Length: 2 digit = 34" 3 digit = 45"
  - Height: 29½"
  - Depth: 6"
  - Mounting Studs: constructed of .080 aluminum
  - Back skin: constructed of .063 aluminum
  - Viewing Window: .125 thick polycarbonate with UV matte finish
  - Paint: Powder paint, door flat black, balance white
  - Salt spray fog: 1,000 hours
  - UV Resistance: 500 hours

### Display Module 5 x 7 pixel, 2.85" pitch

- Specifications:
  - Optical:
    - LED pixel is formed using 4 LED's
    - Pixels are arranged in a 5 wide by 7 tall matrix array.
    - LED pixel spacing is 2.85 inches x 2.85 inches
    - Agilent Amber lamps, 592 NM wavelength, 30 degree viewing angle, bins 4.2 cd to 12 cd
    - LED module is painted a flat black to improve contrast and reduce glare.

### Photocell Assembly

- Monitors ambient light conditions and adjusts brightness accordingly

### NTCIP

- Supports the latest version of NTCIP and can be CERTIFIED by third party for its full functionality and conformance.

### Power and Charging

- Battery charger:
  - Electrical Specifications:
    - Input Voltage: 100/240VAC
    - Input Frequency: 50/60Hz
    - Output Current: 12A
    - Output Equalizer Voltage : 14.7V
    - Output Float Voltage: 13.5V
    - Battery Application: AGM/Wet Lead Acid
    - Operating Temperature: 32°F to 120°F

- Battery bank:
  - Included are two (18 amp) 12-volt batteries wired for 36 amps maximum output.
- Electronic Circuitry: Solid state, reverse polarity protection, properly fused, disconnects on all cables.

### **Solid State Regulator**

#### **Electrical Specifications:**

- Voltage: 12V
- Rated Solar Input: 10A
- Rated Load Current: 10A
- Equalization Voltage: 14.8V
- Boost Battery: 14.4V
- Float Battery: 13.6V
- Low Voltage Disconnect: 11.1V
- Low Voltage Reconnect: 13.1V
- Self-Consumption: 6 mA
- Operating Temp. -35 to +55°C

### **Standard Violator Alerts**

- Characters flash when over preset threshold
- Display will go blank when over preset threshold

### **Radar**

- Operating Band K-Band
- Frequency 24.125 GHz  $\pm$ 5Mhz
- Power Output 5mW
- Antenna Gain 21 dB
- Polarization Linear
- Supply Voltage 9V DC to 18V DC
- Reverse Battery Protected
- Detection Range Typically 500+ feet
- Nominal Current Draw 58 mA (+12V DC)
- Operating Temp. -22°F to +185°F (-30°C to +85°C)
- Weatherproof Yes
- IR Remote Programmable Yes
- Accuracy  $\pm$ 0.1 mph
- Speed Range 5 mph to 105 (8 kmph to 168 kmph)
- Detection Range Typically 500+ feet detecting compact cars, longer for larger vehicles

### **Included Signage**

- Speed limit sign (18" x 24") with interchangeable numbers

Manufacturer reserves the right to make changes in its products from time to time without incurring any obligation to incorporate such improvements in any products previously sold or in service.