SQ3TS® SYSTEM
The most advanced portable traffic signal, ever.

NEMA TS-5 Type TR1 Portable Traffic Signal System

DESIGNED FOR THE REAL WORLD WORK ZONE

The SQ3TS Trailer-Mounted PTS is the most dynamic and dependable portable traffic signal available today. With an industry-leading 100-mph wind load, and a 25-year design life, the SQ3TS Portable Traffic Signal is the temporary traffic control workhorse that you can rely on year after year. From a simple one-lane bridge repair project, to complete intersection control, the SQ3TS System has you covered, under even the most demanding conditions.

The SQ3TS Portable Traffic Signal exceeds NEMA TS-5 specifications for Type TR1 PTS, and is available with a wide range of add-on components to meet any project requirements.

“WE COULD NOT BE HAPPIER WITH THE SQ3TS.”
TAD BROOKS
Vice President - LMC Safety Barricade Corp.
SQ3TS® Portable Traffic Signal

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Lamp</td>
<td>12” (300 mm) diameter LED</td>
</tr>
<tr>
<td>Signal Arm Extension</td>
<td>68 to 109” (173 to 277 cm)</td>
</tr>
<tr>
<td>Solar Charge</td>
<td>520W min</td>
</tr>
<tr>
<td>Power Source</td>
<td>12V / (16) 6V batteries</td>
</tr>
<tr>
<td>Tow Height</td>
<td>89” (226 cm)</td>
</tr>
<tr>
<td>Trailer Width</td>
<td>85” (216 cm)</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>3000 lb. (1361 kg)</td>
</tr>
</tbody>
</table>

SQ3TS FEATURES

- Heavy-duty trailer with 25-year design life
- Dual-Processor Malfunction Management System
- Withstands sustained winds of 100 mph, gusts up to 110 mph
- 10-year structural warranty on trailer
- Lifting Ring for easy signal placement
- Hydraulic lift system
- 30 days run time on batteries alone
- Up to 14 phases of traffic per system
- Tandem-tow trailers
- Exceeds NEMA TS-5 requirements for Type TR1 PTS
- MUTCD Compliant

AVAILABLE OPTIONS

ADVANCED REMOTE MONITORING | Recieve text and/or email alert notifications of signal operation and battery voltage levels.
WIRELESS KNOCKDOWN | Allows signal to operate in conjunction with a standard street corner control cabinet.
PRE-EMPTION SYSTEM | Recognizes emergency vehicles and provides earliest safe green indications.
WAIT TIME & FAULT DISPLAY | Informs motorists of wait time before next green indication.
CLEARANCE TIME EXTENDER | Adds extra red time for slow-moving vehicles that need more time to clear the work area.
MESSAGE BOARD INTERFACE | Wireless connectivity with a portable VMS to display signal status messages in real-time.

EASY TO DEPLOY

The SQ3TS Portable Traffic Signal is equipped with a one-touch, easy-up hydraulic lifting system to make deployments simple.

DISTRIBUTED BY

Street Smart
(888) 653-6800
www.streetsmartrental.com
### OPERATING POSITION
- **Signal Heads Per Trailer**: 2
- **Stabilizers Per Trailer**: 4
- **Solar Panel Orientation**: Flat
- **Indication Type**: 12" Led
- **Signal Trailer Footprint**: 85" X 85"
- **Upper Signal Arm Extension**: 68" - 109" (measured from end of trailer)
- **Signal Height (Lower)**: 96" from bottom of green to road surface (per MUTCD)
- **Signal Height (Upper)**: 213" from bottom of green to road surface (per MUTCD)

### TOW POSITION
- **Tow Length**: 279 ¼"
- **Tow Height**: 88 ¼"
- **Trailer Width**: 85"
- **Trailer Weight**: 2995 lbs. per trailer
- **Tire Size**: ST205/75R15 LRC
- **Trailer Brakes**: Standard
- **Tandem Tow**: Yes

### SIGNAL SETUP
- **Signal Head Type**: Aluminum
- **Visor Type**: Poly (Black)
- **Face Color Options**: Standard Black / Optional Yellow
- **Lamp Size / Type**: 12" LED

### POWER SUPPLY / SETUP
- **Operating Power Source**: 12 Vdc (16 6-Volt Batteries)
- **Battery Capacity**: 30 Days Of Continuous Use @ 72º
- **Charge**: 110-Volt On Board Charger
- **Solar**: Minimum 520 Watts
- **Lift Type**: Hydraulic

### AVAILABLE OPTIONS
- **ADVANCED REMOTE MONITORING**: Recieve alert notifications of signal operation and battery voltage levels.
- **WIRELESS KNOCKDOWN**: Allows signal to operate in conjunction with a standard street corner control cabinet.
- **WAIT TIME & FAULT DISPLAY**: Informs motorists of wait time before next green indication.
- **CLEARANCE TIME EXTENDER**: Extends red time for slow-moving vehicles needing more time to clear the work area.
- **MESSAGE BOARD INTERFACE**: Wireless connection to a portable VMS displays signal status messages in real-time.
- **PRE-EMPTION SYSTEM**: Recognizes emergency vehicles and provides earliest safe green indications.

---

5 Corporate Blvd
Reading, PA 19608

800.852.8796
horizonsignal.com

Regional Support Centers
- Philadelphia, PA
- Orlando, FL
- Indianapolis, IN
- Albuquerque, NM
- St. Catharines, ON
- Birmingham, AL
- Waco, TX
- Chicago, IL
- Fargo, ND

ADVANCING WORKZONE SAFETY
## SQ3TS® System

### PROGRAMMING OPTIONS

<table>
<thead>
<tr>
<th>Communication Type</th>
<th>Radio-Quartz-Cable</th>
<th>Fixed Time-Quartz</th>
<th>Cable-Hardwire</th>
<th>Radio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuation Option Available</td>
<td>N/A</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Actuation Method</td>
<td>N/A</td>
<td>N/A</td>
<td>Microwave Sensor / Video Detection</td>
<td>Microwave Sensor / Video Detection</td>
</tr>
<tr>
<td>Min / Max Green Time Available</td>
<td>N/A</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dayphase Option Available</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Green Time Extensions Available</td>
<td>N/A</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Maximum Number Of Signals Per Setup</td>
<td>8</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Maximum Number Of Phases Per Setup</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Hand Controller Option Available</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Data Logger</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### APPLICATIONS

<table>
<thead>
<tr>
<th>Communication Type</th>
<th>Radio-Quartz-Cable</th>
<th>Fixed Time-Quartz</th>
<th>Cable-Hardwire</th>
<th>Radio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flagger Applications</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Roadside Utility Repair</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Construction Projects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Disaster Relief</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Parking Lot Access</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Sporting Events</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fairs and Festival</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Traffic Control</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PORTABLE TRAFFIC SIGNAL SYSTEM

SQ2® System
The original flagger replacement device.

TS-5 Type TR2 Mobile Traffic Signal

THE ONLY CRASH-TESTED PORTABLE TRAFFIC SIGNAL

The SQ2 system is the most dependable and user-friendly flagger safety PTS system. As with all Horizon Signal systems, the SQ2 System is engineered with the same quality and durability of SQ3 systems in a compact, ultra-portable form factor. The result is a signal that is perfect for daily work or short-term projects, with enough versatility to handle a wide range of applications including parking garages, haul roads, ramp meters, and more. The SQ2 is the real alternative to flaggers, allowing work crews to complete projects quicker and safer.

The SQ2 Portable Traffic Signal exceeds NEMA TS-5 specifications for Type TR2 PTS.

“FROM AN ECONOMIC AND FEASIBILITY STANDPOINT, THE SQ2 SYSTEM HAS EXCEEDED OUR EXPECTATIONS”

MARC
Project Manager
Southern Contracting, LLC
SQ2® Portable Traffic Signal

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Carts Per System</td>
<td>4</td>
</tr>
<tr>
<td>Signal Heads Per Cart</td>
<td>1</td>
</tr>
<tr>
<td>Lamp Type</td>
<td>12&quot; (300 mm) Diameter LED</td>
</tr>
<tr>
<td>Power Source</td>
<td>12V / (2) 12V batteries</td>
</tr>
<tr>
<td>Height: Operating Position</td>
<td>96&quot; (244 cm)</td>
</tr>
<tr>
<td>Cart Footprint</td>
<td>31 x 25.5&quot; (79 x 65 cm)</td>
</tr>
<tr>
<td>Cart Weight</td>
<td>420 lb. (190 kg)</td>
</tr>
</tbody>
</table>

SQ2 FEATURES

- The only crash-tested PTS available today
- MUTCD Compliant
- Easily converts to pedestrian crosswalk or DAD
- Wireless remote operation mode option
- Work zone indication light to provide visual cues
- Fast, efficient deployment and relocation
- Dual-Processor Malfunction Management System
- Battery power for a full week of operation on a single charge
- Easy-lift handles for maneuverability
- Meets NEMA TS-5 specifications for Type TR2 PTS

AVAILABLE OPTIONS

SOLAR CHARGING & OUTRIGGER PACKAGE | The solar charging option extends battery life while the outrigger option provides additional stabilization.

PEDESTRIAN CROSSWALK SIGNALS | System can be configured with MUTCD-compliant pedestrian crosswalk signal indicators.

ADVANCED REMOTE MONITORING | Receive text and/or email alert notifications of signal operation and battery voltage levels.

FLAGGER/PILOT CAR MODULE | Allows flagger or pilot car driver to control signal status with built in safeguards.

TRANSPORT TRAILER | An enclosed trailer to transport, store and accommodate charging of SQ2 signals.

NCHRP 350 TL-3 Accepted

The SQ2 system is the only NEMA Type TR2 signal that has been successfully crash tested to NCHRP 350 TL-3 crash testing standards.

DISTRIBUTED BY

Street Smart

(888) 653-6800
www.streetsmartrental.com
OPERATING POSITION
Signal Carts Per System 4
Signal Head Per Cart 1
Signals Per Traffic Phase 2
Indication Type 12” LED
Signal Cart Footprint 31” x 25½”
Signal Height 96” from bottom of green to road surface (per MUTCD)

SIGNAL HEADS
Signal Head Type Aluminum
Visor Type Poly (Black)
Face Color Options Standard Black / Optional Yellow
Lamp Type LED
Lamp Size 12” LED

POWER SUPPLY
Operating Power Source 12 VDC (2 12-volt batteries, optional third)
Battery Capacity 5-7 days of continuous use @ 72 º Charge
110-volt on board charger

SYSTEM SETUP
Lift System Manual Hand Crank
Signal Positioning Carts Manually Wheeled Into Position
Cart weight 420 lbs

AVAILABLE OPTIONS
SOLAR CHARGING & OUTRIGGER PACKAGE | The solar charging option extends battery life while the outrigger option provides additional stabilization.
PEDESTRIAN CROSSWALK SIGNALS | System can be configured with MUTCD-compliant pedestrian crosswalk signal indicators.
ADVANCED REMOTE MONITORING | Receive text and/or email alert notifications of signal operation and battery voltage levels.
FLAGGER/PILOT CAR MODULE | Allows flagger or pilot car driver to control signal status with built in safeguards.
TRANSPORT TRAILER | An enclosed trailer to transport, store and accommodate charging of SQ2 signals.
### PROGRAMMING OPTIONS

<table>
<thead>
<tr>
<th>Communication Type</th>
<th>Radio-Quartz-Cable</th>
<th>Fixed Time-Quartz</th>
<th>Cable-Hardwire</th>
<th>Radio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuation Option Available</td>
<td>N/A</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Actuation Method</td>
<td>N/A</td>
<td>N/A</td>
<td>Microwave Sensor / Video Detection</td>
<td>Microwave Sensor / Video Detection</td>
</tr>
<tr>
<td>Min / Max Green Time Available</td>
<td>N/A</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dayphase Option Available</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Green Time Extensions Available</td>
<td>N/A</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Maximum Number Of Signals Per Setup</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Maximum Number Of Phases Per Setup</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Hand Controller Option Available</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Data Logger</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### APPLICATIONS

<table>
<thead>
<tr>
<th>Communication Type</th>
<th>Radio-Quartz-Cable</th>
<th>Fixed Time-Quartz</th>
<th>Cable-Hardwire</th>
<th>Radio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flagger Applications</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Roadside Utility Repair</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Construction Projects</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Disaster Relief</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Parking Lot Access</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Sporting Events</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fairs and Festival Traffic Control</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Driveway Assistance Device (DAD)

Safely Alerts Motorists Of Direction Of Traffic

The Horizon Driveway Assistance Device has been designed to address the need to control driveways that fall within one lane temporary work zones. The system increases safety for both the motorist and the worker while maximizing traffic flow through the work zone. The Driveway Assistance Device is a self-contained cart with a small footprint, which allows for easy maneuverability during deployment. The cart features a battery bank with on board 110- volt charger and optional outriggers and solar charging system. Each signal is equipped with one 12" Red indication and two flashing red arrows which alert the motorist that one way access is permitted in the direction of the flashing arrow.

SINCE 2011, HORIZON SIGNAL HAS WORKED WITH STATE DOTs TO DEVELOP THE DAD AS AN EFFECTIVE METHOD FOR CONTROLLING DRIVEWAY TRAFFIC IN WORK ZONES.
Driveway Assistance Device

SQ2T VERSION DAD SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Lamp</td>
<td>(2) Flashing Arrows / (1) Red Ball</td>
</tr>
<tr>
<td>Footprint</td>
<td>62” x 62”</td>
</tr>
<tr>
<td>Solar Charge</td>
<td>130 watts (minimum)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>(8) 6-volt batteries</td>
</tr>
<tr>
<td>Battery Run Time</td>
<td>15-21 Days</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>840 lb. (381 kg)</td>
</tr>
</tbody>
</table>

SQ2 VERSION DAD SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Lamp</td>
<td>(2) Flashing Arrows / (1) Red Ball</td>
</tr>
<tr>
<td>Footprint</td>
<td>31” x 25.5”</td>
</tr>
<tr>
<td>Solar Charge</td>
<td>Optional</td>
</tr>
<tr>
<td>Power Supply</td>
<td>(2) 6-volt batteries</td>
</tr>
<tr>
<td>Battery Run Time</td>
<td>5-7 Days</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>420 lb. (190 kg)</td>
</tr>
</tbody>
</table>

DRIVEWAY ASSISTANCE DEVICE FEATURES

- Available in two form factors
- Full conflict monitoring via MS 2.0 operating system
- Sequential operation allows flashing arrows to deactivate as traffic queue moves through the zone
- An unlimited number of DADs can be wirelessly interconnected in a single work zone
- Helps to reduce the likelihood of wrong-way driving in work zones

DISTRIBUTED BY

Street Smart
(888) 653-6800
www.streetsmartrental.com

5 Corporate Blvd
Reading, PA 19608
800.852.8796
horizonsignal.com

Regional Support Centers
Philadelphia, PA
Albuquerque, NM
Birmingham, AL
Chicago, IL
Fargo, ND
Indianapolis, IN
Orlando, FL
St. Catharines, ON
Waco, TX
## Operation

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Carts Per System</td>
<td>Variable</td>
</tr>
<tr>
<td>Signal Head Per Cart</td>
<td>1</td>
</tr>
<tr>
<td>Signal Orientation</td>
<td>Horizontal</td>
</tr>
<tr>
<td>Signals Per Driveway</td>
<td>1</td>
</tr>
<tr>
<td>Indication Type</td>
<td>12&quot; Solid Red LED with 8&quot; left and right flashing arrows</td>
</tr>
<tr>
<td>Signal Cart Footprint</td>
<td>31&quot; x 25½&quot;</td>
</tr>
<tr>
<td>Signal Height</td>
<td>96&quot; from bottom of signal to road surface (per MUTCD)</td>
</tr>
<tr>
<td>Communication</td>
<td>Wireless or hardwire cable</td>
</tr>
</tbody>
</table>

## SIGNAL HEADS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Head Type</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Visor Type</td>
<td>Poly (Standard Black / Optional Yellow)</td>
</tr>
<tr>
<td>Face Color Options</td>
<td>Standard Black / Optional Yellow</td>
</tr>
<tr>
<td>Lamp Type</td>
<td>LED</td>
</tr>
<tr>
<td>Lamp Size</td>
<td>12&quot; and/or 8&quot; LED</td>
</tr>
</tbody>
</table>

## POWER SUPPLY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Power Source</td>
<td>12 VDC (2 12-volt batteries, optional third)</td>
</tr>
<tr>
<td>Battery Capacity</td>
<td>5 days of continuous use @ 72 º Charge</td>
</tr>
<tr>
<td>Charge</td>
<td>110-volt on board charger</td>
</tr>
</tbody>
</table>

## SYSTEM SETUP

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift System</td>
<td>Manual Hand Crank</td>
</tr>
<tr>
<td>Signal Positioning</td>
<td>Carts Manually Wheeled into Position</td>
</tr>
<tr>
<td>Cart weight</td>
<td>420 lbs</td>
</tr>
</tbody>
</table>

## AVAILABLE OPTIONS

- **REMOTE MONITORING SYSTEM** | Provides information on location, operating status, and battery voltage.
- **TRANSPORT TRAILER**        | An enclosed trailer to transport, store, and accommodate charging of Driveway Assistance Device.
The Horizon Driveway Assistance Device will display a flashing red arrow in the direction of the traffic traveling within the work zone. The motorist may proceed in the direction of the flashing arrow, yielding to the traffic traveling within the work zone. A solid red indication is displayed when it is not safe for the motorist to enter the work zone.

Each Horizon Driveway Assistance Device is linked to the Horizon Portable Traffic Signal System controlling the work zone traffic.

Communication between the Horizon Portable Traffic Signal System and the Driveway Assistance Device is accomplished via wireless communication.
The SQ2T Portable Traffic Signal meets and exceeds NEMA TS-5 specifications for Type TR2 PTS.

NEMA TS-5 Type TR2 Portable Traffic Signal

The SQ2T is the go-to solution for a wide range of specialty applications. The system offers all the benefits of our standard SQ2 system, with the added flexibility of a towable trailer unit. The expanded battery bank also provides increased run times for those longer-term projects with limited deployment space. The system’s unique design allows for the integration of a multitude of specialty components. The SQ2T lends itself particularly well for haul road applications, pedestrian crosswalks, and even for use as Driveway Assistance Device.
**SQ2T® Portable Traffic Signal**

### SPECIFICATIONS

<table>
<thead>
<tr>
<th><strong>SQ2T PTS FEATURES</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Trailers Per System</td>
<td>2</td>
</tr>
<tr>
<td>Signal Heads Per Trailer</td>
<td>1 (Optional 2)</td>
</tr>
<tr>
<td>Signal Lamp Type</td>
<td>12&quot; (300 mm) Diameter LED</td>
</tr>
<tr>
<td>Power Source</td>
<td>12V / (8) 6V batteries</td>
</tr>
<tr>
<td>Solar Panel Wattage (Opt.)</td>
<td>130W</td>
</tr>
<tr>
<td>Height: Operating Position</td>
<td>13'2&quot; (4 m)</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>840 lb. (381 kg)</td>
</tr>
</tbody>
</table>

### AVAILABLE OPTIONS

**PEDESTRIAN CROSSWALK SIGNALS** | System can be configured with MUTCD-compliant pedestrian crosswalk signal indicators.

**ADVANCED REMOTE MONITORING** | Receive text and/or email alert notifications of signal operation and battery voltage levels.

**FLAGGER/PILOT CAR MODULE** | Allows flagger or pilot car driver to control signal status with built-in safeguards.

**DRIVEWAY ASSISTANCE DEVICE** | System can be configured with DAD indications for use on residential driveways.

Conversion kits are available to easily transform your SQ2T to another specialty Horizon Signal system.

**DISTRIBUTED BY**

Street Smart
(888) 653-6800
www.streetsmarrntal.com
SQ4® System
Emergency Intersection Control

Emergency Response Following Natural Disasters

The SQ4 Portable Traffic Signal System has been specifically engineered as a disaster response tool for local authorities to respond quickly following power outages or infrastructure damage. The system features 4-way indications for complete intersection control from one single unit. Its compact footprint facilitates placement in the center of the intersection without obstructing traffic. The on-board battery system and solar panel provide days of runtime while repairs to the existing infrastructure can be made. Optional turn arrow indications are available for each of the 4 phases.
SQ4® Emergency Signal

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trailers Per System</td>
<td>1</td>
</tr>
<tr>
<td>Signal Heads Per Trailer</td>
<td>4</td>
</tr>
<tr>
<td>Signal Lamp Type</td>
<td>8” (200 mm) Diameter LED</td>
</tr>
<tr>
<td>Power Source</td>
<td>12V / (8) 6V batteries</td>
</tr>
<tr>
<td>Solar Panel Wattage (Opt.)</td>
<td>130W</td>
</tr>
<tr>
<td>Height: Operating Position</td>
<td>13'2” (4 m)</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>1000 lb. (450 kg)</td>
</tr>
</tbody>
</table>

**SQ3TS PTS FEATURES**

- Easily converts to pedestrian crosswalk or DAD
- Wireless remote operation mode option
- Fast, efficient deployment and relocation
- Dual-Processor Malfunction Management System
- 15-21 day battery life
- Tandem-tow trailers
- Meets NEMA TS-5 specifications for Type TR2 PTS

**AVAILABLE OPTIONS**

**PEDESTRIAN CROSSWALK SIGNALS** | System can be configured with MUTCD-compliant pedestrian crosswalk signal indicators.

**ADVANCED REMOTE MONITORING** | Recieve text and/or email alert notifications of signal operation and battery voltage levels.

**FLAGGER/PILOT CAR MODULE** | Allows flagger or pilot car driver to control signal status with built in safeguards.

**DRIVEWAY ASSISTANCE DEVICE** | System can be configured with DAD indications for use on residential driveways.

Get the Most Out of Your Signal
Conversion kits are available to easily transform your SQ2T to another specialty Horizon Signal system.

DISTRIBUTED BY

Street Smart
(888) 653-6800
www.streetsmartrental.com
Clearance Time Extender

Adjusts Red Clearance Intervals for Slow-Moving Vehicles

The Clearance Time Extension System increases safety in the work zone by detecting slow moving vehicles and extending the red clearance interval accordingly. If traffic has not cleared the work zone at the time the clearance interval expires, the Clearance Time Extension System will increase the programmed red time to allow for the remaining vehicles to clear the zone safely. All green indications will be held until the system no longer detects traffic traveling through the work zone.

The Clearance Time Extender can be easily retro-fitted to any existing Horizon Portable Traffic Signal.
Clearance Time Extender

CLEARANCE TIME EXTENDER
• Automatically adjusts red-clearance interval in real-time
• Slow-moving vehicles are given extra time to clear the zone
• All opposing green indications are held until vehicles clear
• Compatible with all Horizon Signal Systems

OTHER AVAILABLE OPTIONS
PEDESTRIAN CROSSWALK SIGNALS | System can be configured with MUTCD-compliant pedestrian crosswalk signal indicators.
ADVANCED REMOTE MONITORING | Receive text and/or email alert notifications of signal operation and battery voltage levels.
FLAGGER/PILOT CAR MODULE | Allows flagger or pilot car driver to control signal status with built-in safeguards.
DRIVEWAY ASSISTANCE DEVICE | System can be configured with DAD indications for use on residential driveways.

Works with Any Horizon PTS!
The Clearance Time Extender works with any core Horizon Signal System.

DISTRIBUTED BY
Street Smart
(888) 653-6800
www.streetsmartrental.com
Pedestrian Signal System

Temporary Crosswalk Control

The Horizon Signal Pedestrian Signal System includes MUTCD compliant indications exclusively intended for controlling pedestrian traffic. The signal indications consist of the illuminated symbols of a walking person (symbolizing walk) and an upraised hand (symbolizing don’t walk). Time remaining to cross is also displayed as a real-time countdown which automatically programs itself during initial setup.

The Pedestrian Signal System can be furnished as a standalone system on an SQ2 or SQ2T platform, and can also be integrated onto an SQ3TS trailer.
Pedestrian Signal System

SQ2T TRAILER VERSION SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Lamp</td>
<td>MUTCD-Compliant Pedestrian Signal</td>
</tr>
<tr>
<td>Footprint</td>
<td>62” x 62”</td>
</tr>
<tr>
<td>Solar Charge</td>
<td>130 watts (minimum)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>(2) 6-volt batteries</td>
</tr>
<tr>
<td>Battery Run Time</td>
<td>15-21 Days</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>840 lb. (381 kg)</td>
</tr>
</tbody>
</table>

SQ2 CART VERSION SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Lamp</td>
<td>MUTCD-Compliant Pedestrian Signal</td>
</tr>
<tr>
<td>Footprint</td>
<td>31” x 25.5”</td>
</tr>
<tr>
<td>Solar Charge</td>
<td>Optional 130 watt</td>
</tr>
<tr>
<td>Power Supply</td>
<td>(8) 6-volt batteries</td>
</tr>
<tr>
<td>Battery Run Time</td>
<td>5-7 Days</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>420 lb. (190 kg)</td>
</tr>
</tbody>
</table>

PEDESTRAIN SIGNAL SYSTEM FEATURES

- MUTCD-Compliant Pedestrian Crosswalk Indications
- ADA-Ready
- Pushbutton Actuation
- Countdown timer shows time remaining to cross
- Can be integrated directly onto SQ3TS trailer, or operate as a standalone system

DISTRIBUTED BY

(888) 653-6800
www.streetsmartrental.com
The Horizon Message Board Interface system creates a wireless radio connection between any Horizon PTS system and a Variable Message Sign (VMS). By linking these devices together, the VMS can display real-time signal status messages based on the operation of the Horizon PTS. Custom messages can be displayed during different signal intervals to alert motorists to new traffic patterns or approaching work zones. The Message Board Interface is especially useful for work zones around blind curves, or work zones in high speed areas.

Messages can be programmed to display during Red and Green intervals - for example, “Red Signal Ahead” or “Work Zone Ahead” -- and will change automatically as the Horizon PTS operates. The Message Board Interface System is compatible with most major brands of Variable Message Signs.
MESSAGE BOARD INTERFACE FEATURES

- Compatible with most major brands of VMS
- Message changes in real time as Horizon PTS cycles
- Wireless range of up to 1 mile
- Ideal for new traffic patterns and work zones with limited sight distances

OTHER AVAILABLE OPTIONS

**PEDESTRIAN CROSSWALK SIGNALS** | System can be configured with MUTCD-compliant pedestrian crosswalk signal indicators.

**ADVANCED REMOTE MONITORING** | Receive text and/or email alert notifications of signal operation and battery voltage levels.

**FLAGGER/PILOT CAR MODULE** | Allows flagger or pilot car driver to control signal status with built in safeguards.

**DRIVEWAY ASSISTANCE DEVICE** | System can be configured with DAD indications for use on residential driveways.
Wireless Knockdown
Interface with existing signal infrastructure

Wireless Connection With Permanent Signal Systems

The Wireless Knockdown System allows a Horizon SQ3TS Signal to be wirelessly operated by a standard street corner traffic signal controller. This system allows for a quick and easy temporary signal substitution of a permanent signal in the event of a knockdown, relocation, or traffic pattern reconfiguration.

The Horizon Portable Traffic Signal can be connected to the street corner controller within 30 minutes. Once deployed, the Horizon PTS is under complete control of the existing street corner cabinet — including full conflict monitoring as if it were a permanent span wire or pole-mounted signal. The Horizon signal transmits its status and information back to the cabinet in real-time, allowing it to be fully monitored via the cabinet’s Malfunction Management Unit. The wireless interface system has a range of up to ¼ mile.
Wireless Knockdown System

Wireless Knockdown Features
- Secure wireless connection to any NEMA-compliant streetcorner traffic controller
- Full conflict monitoring via existing control cabinet
- 1/4 mile communication range
- Add-on kit easily adapts to any Horizon SQ3TS trailer
- Operational in 30 minutes or less

Other Available Options

Advanced Remote Monitoring | Receive text and/or email alert notifications of signal operation and battery voltage levels.

Pre-Emption System | Recognizes emergency vehicles and provides earliest safe green indications.

Wait Time & Fault Display | Informs motorists of wait time before next green indication.

Clearance Time Extender | Adds extra red time for slow-moving vehicles that need more time to clear the work area.

Message Board Interface | Wireless connectivity with a portable VMS to display signal status messages in real-time.

EASY TO DEPLOY
The SQ3TS Portable Traffic Signal is equipped with a one-touch, easy-up hydraulic lifting system to make deployments simple.

Distributed By
Street Smart Rental
(888) 653-6800
www.streetsmartrental.com
The Wait Time Display provides drivers with a visual readout of the amount of time remaining before the next green indication. The system is ideal for long work zones with high Red Clearance times, as it informs drivers that they can expect a longer than average wait.

Wait time can be displayed either as an estimated value — “Up to 5 Mins” — or as a real-time countdown. In addition, custom messages can be programmed for flashing scenarios, telling drivers to seek an alternate route around the flashing signal.

The Wait Time Display is available in a compact 18” x 28” size, or a large 24” x 60” version, and can also be upgraded to allow for bluetooth connectivity.
Wait Time Display

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>18” x 28” / 24” x 60”</td>
</tr>
<tr>
<td>Screens</td>
<td>Up to 6 per message</td>
</tr>
<tr>
<td>Enclosure</td>
<td>NEMA 4, IP65 sealed</td>
</tr>
<tr>
<td>Power</td>
<td>12V</td>
</tr>
</tbody>
</table>

WAIT TIME DISPLAY FEATURES

- 2 operating modes: fixed time (“Up to xx Minutes Wait”), or real-time countdown
- Displays custom message in the event of signal fault
- Optional Bluetooth connection

OTHER AVAILABLE OPTIONS

PEDESTRIAN CROSSWALK SIGNALS | System can be configured with MUTCD-compliant pedestrian crosswalk signal indicators.

ADVANCED REMOTE MONITORING  | Receive text and/or email alert notifications of signal operation and battery voltage levels.

FLAGGER/PILOT CAR MODULE  | Allows flagger or pilot car driver to control signal status with built in safeguards.

DRIVEWAY ASSISTANCE DEVICE | System can be configured with DAD indications for use on residential driveways.
**SQ3TS® Upgrades**

**ADVANCED REMOTE MONITORING (ARM)**
The ARM system sends text message and/or email alerts, reporting signal status and operation. Battery voltage, signal location, and fault status is reported in real-time or on demand from our dedicated monitoring website.

**LEFT TURN ARROW**
MUTCD-Compliant left turn arrows can be easily added to any Horizon Signal SQ3TS system. This addition allows for dedicated turning lanes through intersections during construction or standard intersection control.

**VIDEO DETECTION**
Video actuation allows for true presence vehicle detection via the creation of customized detection zones. This non-intrusive detection system is easily installed and does not require a PC for configuration.

**EMERGENCY VEHICLE PREEMPTION**
Provides the earliest possible safe green indication in the direction of approaching emergency vehicles. Vehicles can be detected via either optical strobe light patterns or audible siren detection.

**CABLED REMOTE**
Easily place a call for green at either end of the work zone, or rest both signals of a 2-phase operation in red. Programmed red clearance intervals are always inserted between green indications, preventing the possibility of conflict.

**WIRELESS REMOTE**
With up to a 1/2 mile range, the wireless remote is the most convenient method of manual signal control. The built-in vibration function works as a confirmation of each button press, and the signals can be switched back to automatic mode with just one tap.

**PILOT CAR**
The Pilot Car / Flagger module allows a pilot car driver to control a Horizon Signal System remotely via a handheld transmitter for simple, all-day operation.

**WORK ZONE LUMINAIRE**
The Work Zone Luminaire increases safety by illuminating the Horizon PTSs and surrounding work area during periods of low visibility. Photocell sensors automatically activate the light at dusk.
SQ3TS® Portable Traffic Signal

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Lamp</td>
<td>12&quot; (300 mm) diameter LED</td>
</tr>
<tr>
<td>Signal Arm Extension</td>
<td>68 to 109&quot; (173 to 277 cm)</td>
</tr>
<tr>
<td>Solar Charge</td>
<td>520W min</td>
</tr>
<tr>
<td>Power Source</td>
<td>12V / (16) 6V batteries</td>
</tr>
<tr>
<td>Tow Height</td>
<td>89&quot; (226 cm)</td>
</tr>
<tr>
<td>Trailer Width</td>
<td>85&quot; (216 cm)</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>3000 lb. (1361 kg)</td>
</tr>
</tbody>
</table>

SQ3TS FEATURES

- Heavy-duty trailer with 25-year design life
- Dual-Processor Malfunction Management System
- Withstands sustained winds of 100 mph, gusts up to 110 mph
- 10-year structural warranty on trailer
- Lifting Ring for easy signal placement
- Hydraulic lift system
- 30 days run time on batteries alone
- Up to 14 phases of traffic per system
- Tandem-tow trailers
- Meets/exceeds NEMA TS-5 requirements for Type TR1 PTS
- MUTCD Compliant

AVAILABLE OPTIONS

ADVANCED REMOTE MONITORING | Recieve text and/or email alert notifications of signal operation and battery voltage levels.

WIRELESS KNOCKDOWN | Allows signal to operate in conjunction with a standard street corner control cabinet.

PRE-EMPTION SYSTEM | Recognizes emergency vehicles and provides earliest safe green indications.

WAIT TIME & FAULT DISPLAY | Informs motorists of wait time before next green indication.

CLEARANCE TIME EXTENDER | Adds extra red time for slow-moving vehicles that need more time to clear the work area.

MESSAGE BOARD INTERFACE | Wireless connectivity with a portable VMS to display signal status messages in real-time.

DISTRIBUTED BY

Street Smart
(888) 653-6800
www.streetsmartrental.com

5 Corporate Blvd
Reading, PA 19608

Regional Support Centers
Philadelphia, PA
Indianapolis, IN
Albuquerque, NM
Orlando, FL
Birmingham, AL
St. Catharines, ON
Chicago, IL
Waco, TX
Fargo, ND
**SQ2® Upgrades**

**ADVANCED REMOTE MONITORING (ARM)**
The ARM system sends text message and/or email alerts, reporting signal status and operation. Battery voltage, signal location, and fault status is reported in real-time or on demand from our dedicated monitoring website.

**TRANSPORT TRAILER**
Provides convenient storage and portability for an entire set of SQ2 signals. The expanded storage means you can also store solar panels, outriggers, and other work zone gear along with your signal system.

**SOLAR & OUTRIGGER PACKAGE**
The addition of a 130 watt solar panel significantly increases the battery life of your SQ2 signal, while the outriggers allow for added cart stability on uneven surfaces.

**RAMP METER SIGNAL**
The Temporary Ramp Meter signal provides a quick, reliable solution to highway congestion. The system can be quickly deployed at any highway on-ramp to regulate the flow of traffic onto the highway and ease overall congestion.

**CABLED REMOTE**
Easily place a call for green at either end of the work zone, or rest both signals of a 2-phase operation in red. Programmed red clearance intervals are always inserted between green indications, preventing the possibility of conflict.

**WIRELESS REMOTE**
With up to a 1/2 mile range, the wireless remote is the most convenient method of manual signal control. The built-in vibration function works as a confirmation of each button press, and the signals can be switched back to automatic mode with just one tap.

**PILOT CAR**
The Pilot Car / Flagger module allows a pilot car driver to control a Horizon Signal System remotely via a handheld transmitter for simple, all-day operation.

**DRIVEWAY ASSISTANCE DEVICE**
Alerts motorists in residential driveways as to the direction of traffic flow in a one-lane bi-directional work zone. Helps to reduce the likelihood of wrong-way driving in work zones.
**SQ2® Portable Traffic Signal**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Carts Per System</td>
<td>4</td>
</tr>
<tr>
<td>Signal Heads Per Cart</td>
<td>1</td>
</tr>
<tr>
<td>Lamp Type</td>
<td>12” (300 mm) Diameter LED</td>
</tr>
<tr>
<td>Power Source</td>
<td>12V / (2) 12V batteries</td>
</tr>
<tr>
<td>Height: Operating Position</td>
<td>96” (244 cm)</td>
</tr>
<tr>
<td>Cart Footprint</td>
<td>31 x 25.5” (79 x 65 cm)</td>
</tr>
<tr>
<td>Cart Weight</td>
<td>420 lb. (190 kg)</td>
</tr>
</tbody>
</table>

**SQ2 FEATURES**

- The only crash-tested PTS available today
- MUTCD Compliant
- Easily converts to pedestrian crosswalk or DAD
- Wireless remote operation mode option
- Work zone indication light to provide visual cues
- Fast, efficient deployment and relocation
- Dual-Processor Malfunction Management System
- Battery power for a full week of operation on a single charge
- Easy-lift handles for maneuverability
- Meets NEMA TS-5 specifications for Type TR2 PTS

**AVAILABLE OPTIONS**

**SOLAR CHARGING & OUTRIGGER PACKAGE** | The solar charging option extends battery life while the outrigger option provides additional stabilization.

**PEDESTRIAN CROSSWALK SIGNALS** | System can be configured with MUTCD-compliant pedestrian crosswalk signal indicators.

**ADVANCED REMOTE MONITORING** | Recieve text and/or email alert notifications of signal operation and battery voltage levels.

**FLAGGER/PILOT CAR MODULE** | Allows flagger or pilot car driver to control signal status with built in safeguards.

**TRANSPORT TRAILER** | An enclosed trailer to transport, store and accommodate charging of SQ2 signals.

**NCHRP 350 TL-3 Accepted**

The SQ2 system is the only NEMA Type TR2 signal that has been successfully crash tested to NCHRP 350 TL-3 crash testing standards.
Detection Systems

**MOTION SENSOR**

This state-of-the-art detection system utilizes doppler radar technology to detect approaching vehicles with ultra-low power consumption at long ranges. Simply plug and play for a quick and reliable actuation solution that can detect vehicles at up to 300 feet.

<table>
<thead>
<tr>
<th>Detection Type</th>
<th>Motion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup &amp; Configuration</td>
<td>Plug and play</td>
</tr>
<tr>
<td>Weight</td>
<td>0.6 lb. (0.27 kg)</td>
</tr>
<tr>
<td>Detectable Speeds</td>
<td>1-206 mph (1-330 km/h)</td>
</tr>
<tr>
<td>Weatherproof Rating</td>
<td>IP68</td>
</tr>
</tbody>
</table>

**VIDEO DETECTION**

The video detection system is optimized for intersection and work zone vehicle presence detection, and can be configured with multiple directional detection zones. The non-intrusive installation and configuration is accomplished quickly and efficiently via a simple monitor and mouse system.

<table>
<thead>
<tr>
<th>Detection Type</th>
<th>Presence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup &amp; Configuration</td>
<td>Up to 6 custom detection zones</td>
</tr>
<tr>
<td>Weight</td>
<td>4.25 lb. (2 kg)</td>
</tr>
<tr>
<td>Lens</td>
<td>Auto focus w/ internal heater</td>
</tr>
<tr>
<td>Weatherproof Rating</td>
<td>IP67</td>
</tr>
</tbody>
</table>

**SIGNAL PRE-EMPTION**

Allows emergency vehicles to have faster response times in time-critical situations when navigating through a work zone. The system provides the earliest safe green indication in the direction of an approaching emergency vehicle, and holds all other signals RED until the emergency vehicle has cleared.

<table>
<thead>
<tr>
<th>Detection Type</th>
<th>Emergency optical strobe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup &amp; Configuration</td>
<td>Plug and play</td>
</tr>
<tr>
<td>Height</td>
<td>96 in. (244 cm)</td>
</tr>
<tr>
<td>Signal acquisition time</td>
<td>1.5 sec.</td>
</tr>
<tr>
<td>Confirmation</td>
<td>Flashing indicator</td>
</tr>
</tbody>
</table>
The Wired Interface System allows a Horizon Signal System to be operated by a standard street corner controller. This system allows for easy temporary signal substitution of a permanent signal in the event of a knockdown, relocation, or traffic pattern reconfiguration.

With the direct connection to the existing street corner cabinet, the Horizon Signal interfaces directly into the street corner hardware. This allows for full conflict monitoring via the cabinet’s MMU as normal.
Hard-Wired Knockdown System

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Lamp</td>
<td>12&quot; (300 mm) diameter LED</td>
</tr>
<tr>
<td>Signal Arm Extension</td>
<td>68 to 109&quot; (173 to 277 cm)</td>
</tr>
<tr>
<td>Wind Load</td>
<td>100 MPH</td>
</tr>
<tr>
<td>Ball Hitch</td>
<td>2 - 5/16&quot;</td>
</tr>
<tr>
<td>Tow Height</td>
<td>89&quot; (226 cm)</td>
</tr>
<tr>
<td>Trailer Width</td>
<td>85&quot; (216 cm)</td>
</tr>
<tr>
<td>Trailer Weight</td>
<td>3000 lb. (1361 kg)</td>
</tr>
</tbody>
</table>

SQ3TS FEATURES

- Heavy-duty trailer with 25-year design life
- 110v LEDs
- Withstands sustained winds of 100 mph, gusts up to 110 mph
- 10-year structural warranty on trailer
- Lifting Ring for easy signal placement
- Hydraulic lift system
- Terminal block for easy connection to existing equipment
- NEMA 4 weatherproof enclosure
- Full conflict monitoring via cabinet’s MMU

OTHER HORIZON SIGNAL SYSTEMS

**WIRELESS KNOCKDOWN** | Allows signal to operate in conjunction with a standard street corner control cabinet without the need for a direct hardwired connection.

**WAIT TIME & FAULT DISPLAY** | Informs motorists of wait time before next green indication.

**MESSAGE BOARD INTERFACE** | Wireless connectivity with a portable VMS to display signal status messages in real-time.

**DRIVEWAY ASSISTANCE DEVICE** | Safely and efficiently control traffic from residential driveways within a one-lane, two-way work zone.

DISTRIBUTED BY

(888) 653-6800
www.streetsmarrental.com