RedStorm™ 2.1
Parking Guidance System

A TCP/IP Enabled Parking Guidance Solution

Spaces Available

LOT A	FULL
LOT B ♿	9
LOT C	8
LOT D	37
LOT E	51
LOT F	114
LOT G	110
LOT H	56
LOT I	99
LOT J	141

LEVEL 4 Student Permit Parking ONLY   409

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Improve your customers' parking experience with the RedStorm™ 2.1 **Parking Guidance System!**

Most people don't go somewhere to park… *they park to go somewhere.* The RedStorm™ Parking Guidance System gets them to their destination faster by reducing the stress and endless driving associated with hunting for a parking space.

25th Avenue Garage
Vanderbilt University - Nashville, TN
Level by Level - Space Available Sign

Campus Parking Locations
Zappos - Las Vegas, NV
Total Count - Space Available Sign

Liberty Garage
Walter Reed National Military Medical Center - Bethesda, MD
Level by Level - Space Available Sign with Handicapped Spaces

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toll free **877-547-9900**

RedStorm 2.1 supports seamless integration with your network.

Connect it to your network with Signal-Tech's Sign Control and Reporting Software and, you can modify and manage your system from any computer or device on the network.

or

Just install it as a stand–alone car counting system - no Ethernet or software required.

RedStorm adapts to any garage or surface lot configuration.

As a *Total Count System* track the number of vehicles entering and exiting at each location.

As a *Level by Level Count System* track the number of available or open spaces by level, deck or nested area.

In a *Campus–style Parking* application, broadcast available or open space counts to signs across the network.

Why RedStorm?

• It's Accurate

Using infra-red technology to detect vehicle movement even when there is bumper to bumper tailgating situations.

• It's Simple

Installs without structural changes, no concrete to cut. Can interface with 3rd party inductive loops.

• It's Versatile

The perfect fit for both existing and new parking facilities, large or small lots, or campus locations. Simple enough to support total counts and robust enough to handle complex level by level counts.
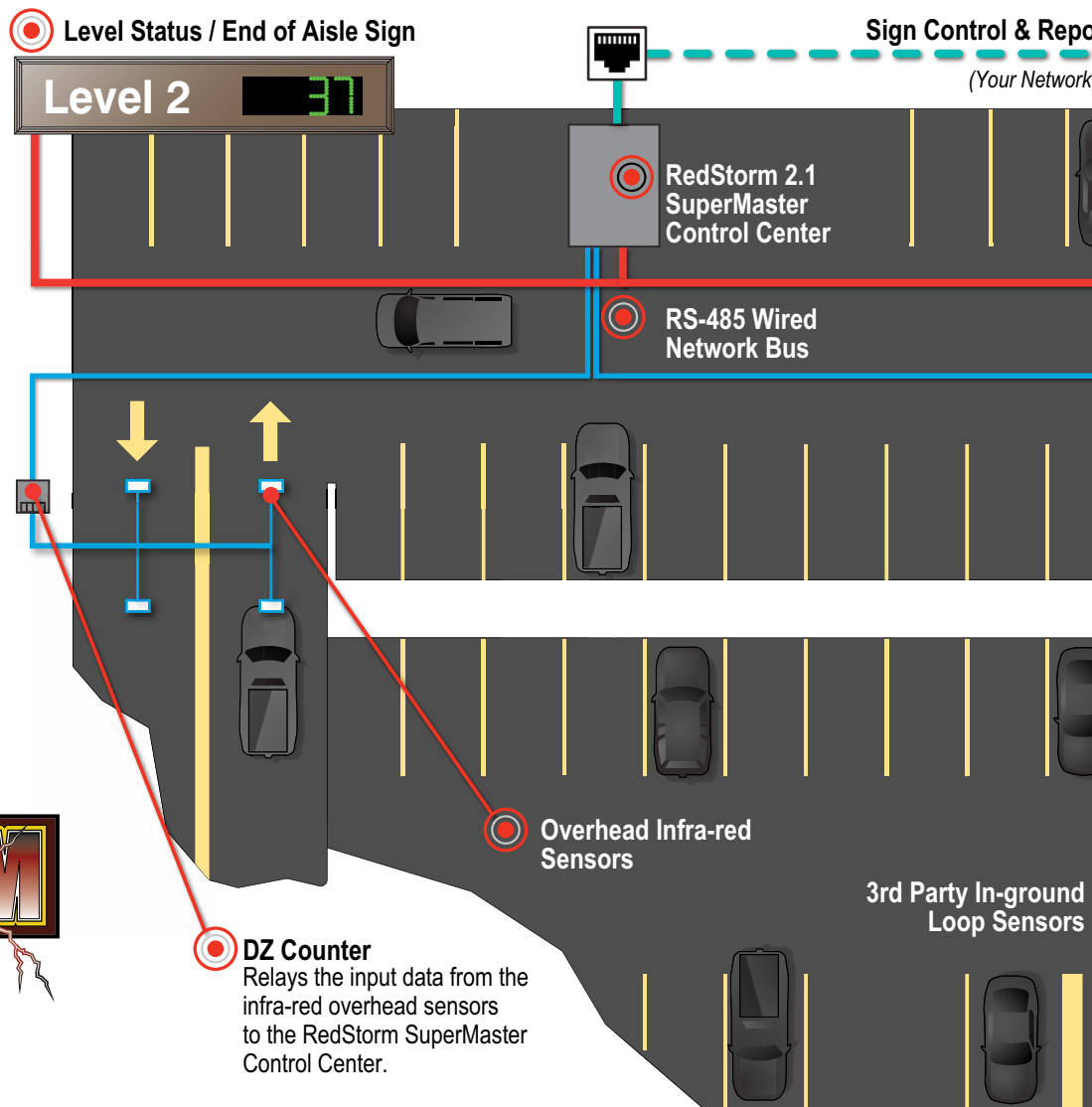
• It's Green

The combination of RedStorm's Space Available signs and real-time car counting capabilities makes finding an open space faster, more efficient and eliminates congestion.

The RedStorm 2.1 Parking Guidance System is versatile and scalable!

VIP Parking Garage
Wind Creek Casino - Wetumpka, AL
Level by Level - Space Available Sign

REDC Garage
Penn State Behrend Campus - Erie, PA
Level by Level - Space Available Sign

signal-tech.com *"The Total Parking Guidance Solution"*
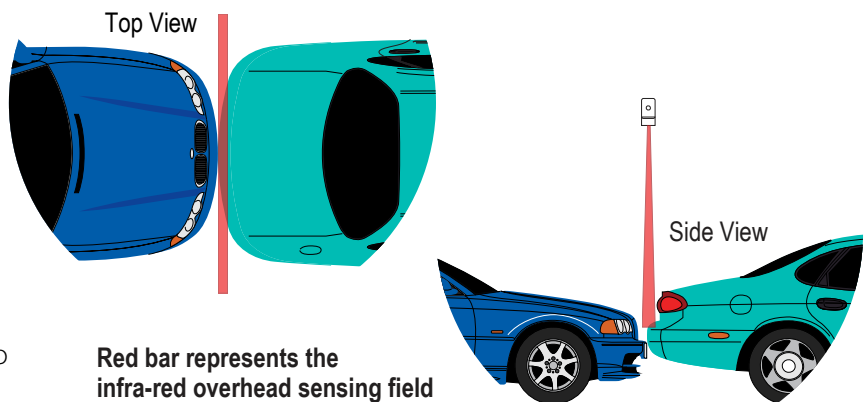
How Does RedStorm™ Work

The RedStorm™ Parking Guidance System combines real-time vehicle counting with Space Available signs and optional reporting software. Using sensing technology, the RedStorm System counts the number of vehicles entering and exiting a parking facility or deck. The remaining available "open" spaces are then displayed on signs letting motorists know where to find the open spaces.

Level Status / End of Aisle Sign

Level 2   37

Sign Control & Repo
(Your Network

RedStorm 2.1 SuperMaster Control Center

RS-485 Wired Network Bus

Overhead Infra-red Sensors

3rd Party In-ground Loop Sensors

DZ Counter
Relays the input data from the infra-red overhead sensors to the RedStorm SuperMaster Control Center.

RedStorm™ 2.1 Answers the question, "Are there any open spaces?"

Anti-tailgating Sensor Technology

You can count on RedStorm's ability to detect vehicles even in congested tailgating situations. We use the optical precision of infra-red technology to detect vehicular movement. Our sensors have a 7 foot wide sensing field which provides maximum coverage over the traffic lane and a narrow 3 inch deep sensing field ensures detection of individual cars, even in bumper to bumper traffic.
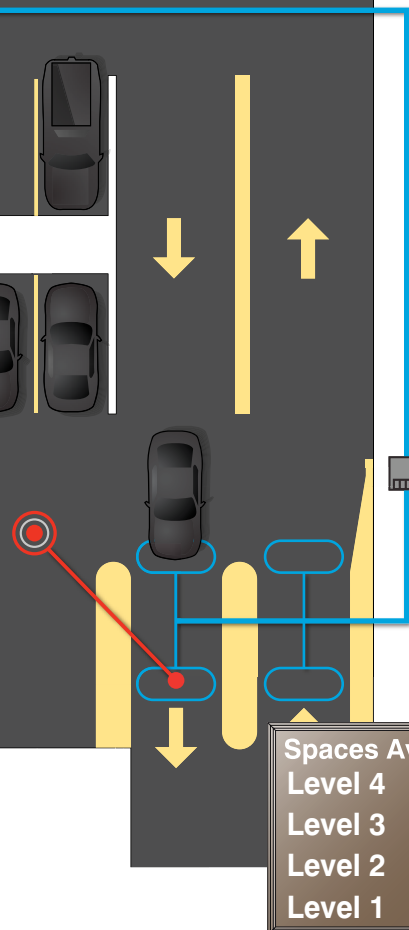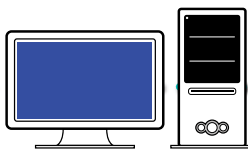
Top View

Side View

Red bar represents the infra-red overhead sensing field

Add the
Sign Control & Reporting Software

And you have the ability to collect and store parking data to your network. Using the software you can monitor, report and share parking activity. The software will manage a single RedStorm System or multiple systems in a campus–style setting.

7th St Garage
✔ 04:14 PM: Online

Zone	Capacity	Occupied	Available	Percent
lev1	418	392	34	93%
lev2	426	273	153	64%
lev3	466	195	231	41%

Sign	Status
Sign 1	0418
Tower	0034	0153	0231

Reports

North Lot
✔ 04:14 PM: Online

Zone	Capacity	Occupied
NorthL	780	745

Sign	Status
Sign 2	0035

Reports

Desktop / Mobile Management

7th St Garage
✔ 04:14 PM: Online

Zone	Capacity	Occupied	Available	Percent
lev1	418	392	34	93%
lev2	426	273	153	64%
lev3	466	195	231	41%

Sign	Status
Sign 1	0418
Tower	0034	0153	0231

Reports

North Lot
✔ 04:14 PM: Online

Zone	Capacity	Occupied	Available	Percent
NorthL	780	745	35	95%

Sign	Status
Sign 2	0035

Reports

Signal-Tech
Sign Control Software
? Help X Log Out

RedStorm Reports

Type: [Zones ▾] Report: [Occupied ▾]

Time: [Day ▾]

[5/4/2017] [5/11/2017]

○ Count ○ Percent ○ Line ● Bar
[Download] [Print]

☑ North Lot   ☑ 7th St Garage
☐ 7th St Garage: lev1   ☐ 7th St Garage: lev2
☐ 7th St Garage: lev3

Maximum Occupied Spaces
■ North Lot

550
440
330
220
110
0
12 am 3 am 6 am 9 am 12 pm 3 pm 6 pm 9 pm

Reports

Spaces Available
Level 4 — 58
Level 3 — 42
Level 2 — 37
Level 1 — 13

◉ **Space Available Tower Sign**

Update and Personalize Your System
• Adjust counts and capacities within a zone or system

• Assign common names to entrances, exits and transition points to simplify reporting, maintenance and troubleshooting

Notifications and Diagnostics
• Schedule count maintenance by zone

• Send email alerts when atypical system activity occurs

Rich Reporting Functionality
• Customize reports

• Monitor garage usage

• Analyze trends and turnover

• Develop predictive analysis

• Reconcile revenue for theft prevention

• Data is exportable as a .csv file

Supports a Live XML Feed
of available or open space counts, giving you the ability to display real–time, open space counts through your web services.

Computer Requirements *(by others)*
• Windows 7 or higher
• Recommended: Server grade computer with backup power located in a secured area

Network Requirements
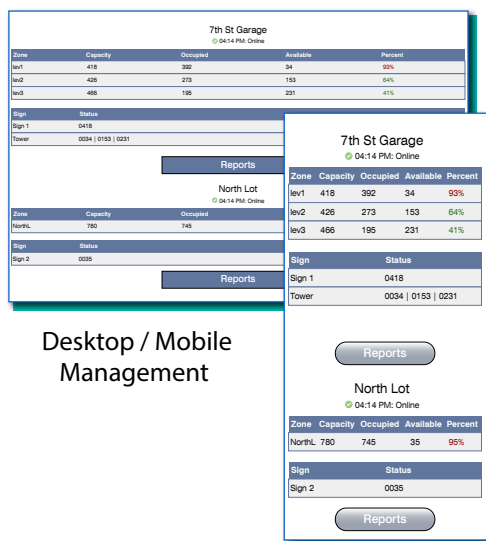• Ethernet
• Recommended: DHCP enabled

• It's modular,
RedStorm installs using just three simple components.
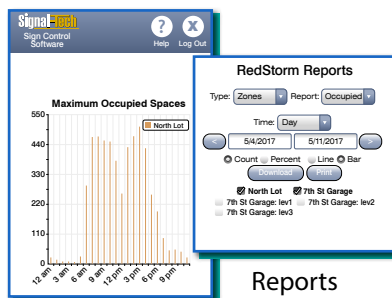
• It's compatible,
RedStorm works with 3rd party, new and existing loop detection systems.

• It's easy to install,
RedStorm overhead sensors can be installed where needed, without structural changes; no cement to cut.

Space Available &
Level Status Signs

Make parking hassle-free. Eliminate the time and gas spent searching for an open space with Space Available signage. Your need for one or the other or even both types of signage depends on your choice of Total Count or Level by Level Counting.

Space Available Tower Signs

at the parking entrance gives motorists an at-a-glance look at where the open spaces are even before entering the parking facility.

Level Status & End of Aisle Signs

inside the garage continue to inform drivers of parking availability; keeping the traffic moving and the parking garage full.

GALLERIA Parking Garage

Spaces Available

100

Level 3
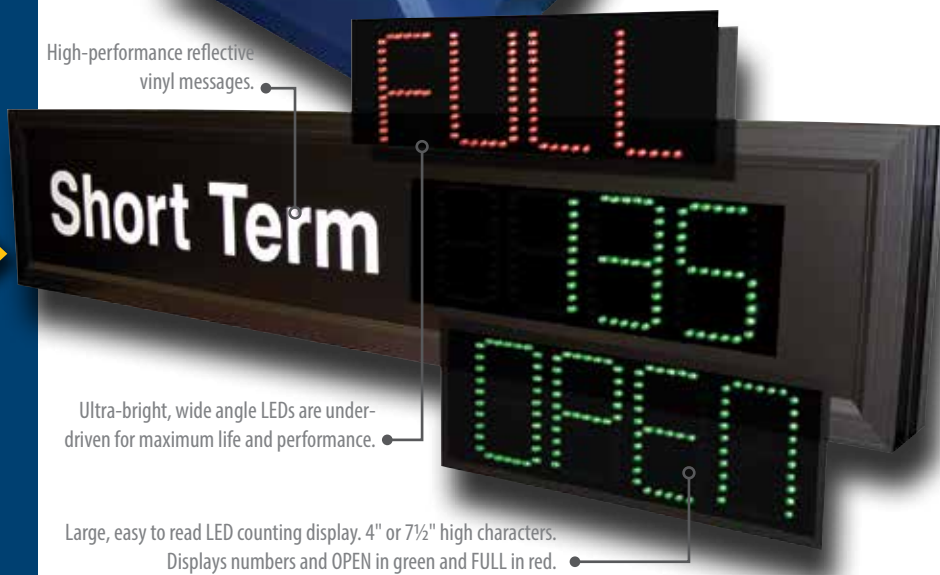
FULL

Level 2

135

Level 1

P

Available in single or double face configurations.

Compatible with RedStorm™ Space Counting System and with most external revenue control systems.

Aluminum cabinet 5½" deep, with integrated front hinging face panel for easy access and installation.

Both can display total vehicle counts or level by level counts, OPEN, FULL or CLSd

FULL

135

OPEN

Short Term

High-performance reflective vinyl messages.

Ultra-bright, wide angle LEDs are under-driven for maximum life and performance.

Large, easy to read LED counting display. 4" or 7½" high characters. Displays numbers and OPEN in green and FULL in red.

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f 🐦 in g+ ▶

toll free **877-547-9900**

Cabinet Construction

Our signs are engineered to withstand the elements. The cabinet consists of an extruded aluminum frame and an aluminum panel with routed windows.

To make installation a breeze, our signs have a hinged front or back panel that allows the sign to be conveniently opened; *no disassembly is required to access the pre-wired signs inside*.

Water is every sign's mortal enemy. So the interior of the main cabinet is also treated with a moisture absorbing coating to ensure a long life. To further protect the seven segment displays, they are internally housed within their own cabinets creating a sign in a sign.
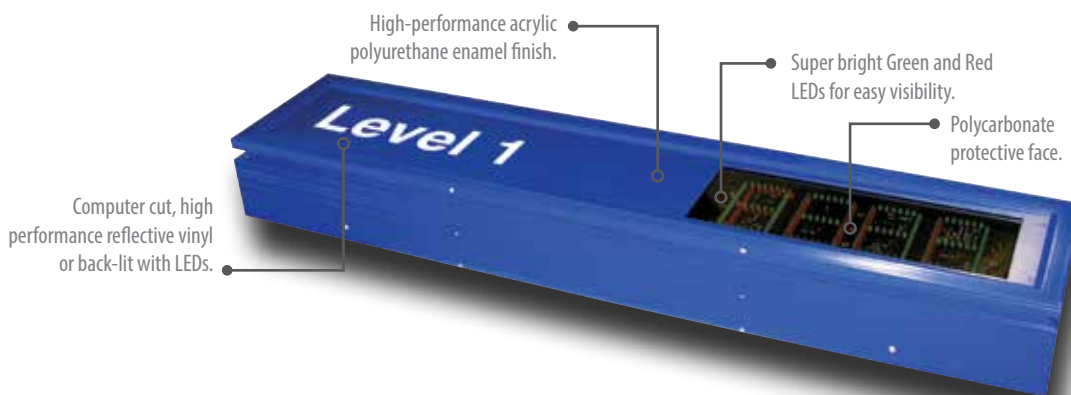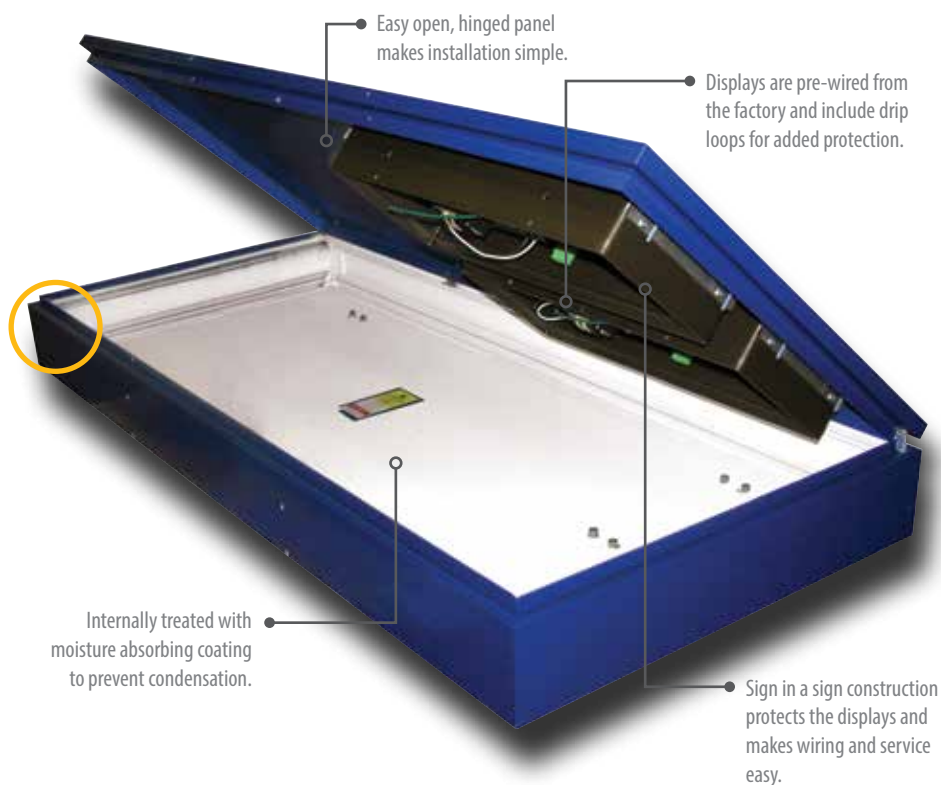
- **Strong 5½" deep extruded aluminum cabinet**

- **Moisture absorbing internal coating**

- **Sign within a sign construction**

- **Easy to access hinged front panel**

- **Hassle-free and easy to install**

Easy open, hinged panel makes installation simple.

Displays are pre-wired from the factory and include drip loops for added protection.

Internally treated with moisture absorbing coating to prevent condensation.

Sign in a sign construction protects the displays and makes wiring and service easy.

Precision mitered corners include corner keys.

High-performance acrylic polyurethane enamel finish.

Super bright Green and Red LEDs for easy visibility.

Polycarbonate protective face.

Computer cut, high performance reflective vinyl or back-lit with LEDs.

Level 1

"The Total Parking Guidance Solution"

When you choose RedStorm 2.1 you're choosing a parking guidance system that:

• Supports seamless integration with your network

• Communicates with Signal-Tech Space Available LED signs

• Is compatible with new and existing third party inductive loop equipment

• Is supported by a trained network of installers and an in-house engineering team in the U.S.A.

RedStorm™ 2.1 Parking Guidance System Requirements

Requires
• 120–240V input power at the SuperMaster Controller
• RS485 Wired Network Bus
• 120–277V input power at each Space Available Sign

When integrated with the Sign Control & Reporting Software
• A physical Ethernet connection from the SuperMaster Controller to the facility network
• A static IP address on the network

Signal-Tech

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