

### **TIBA** Smart Guidance System



Remember the last time you've been into a parking lot, desperately searching for a vacant parking space?

Remember how much time and effort you wasted?

### TIBA has good news for you!!!

**N**ext time you find yourself in a parking lot, equipped with **TIBA** Smart Guidance System, it would be easy as a piece of cake...





**TIBA** proudly presents the top of the line Parking Guidance System.

The *TSGS*–*30* is an electronic system, designed to assist drivers in finding quickly and easily a vacant parking space inside a parking lot.

The *TSGS–30* utilizes sophisticated technology, based on using Ultra-Sonic wave detector with Red-Green lights on top of each parking space.

The *TSGS*–*30* uses also electronic signage of directional arrows, guiding the driver to the nearest low-occupancy zone.

#### Who needs the TSGS-30 system?

- Shopping malls.
- Business centers.
- Entertainment centers
- ✤ Off street parking garages.
- ✤ Hotels.
- Universities.
- ✤ Hospitals.

As a parking lot operator, why do I need to add a system, which does not seem to add any revenue?

### To reduce costs and increase revenues!

#### How can the system increase my revenue?

Customers will prefer a parking structure, which saves time in finding a parking spot. When your regular customers or monthly parkers know they will find easily a parking spot in your facility, they will prefer to park in your parking lot instead of parking elsewhere.



#### How can the system reduce my ongoing operational costs?

✓ Less staff on duty to direct and assist drivers.

#### How can the system reduce my ongoing maintenance costs?

- ✓ Less repairs for faulty counting loops and loop detectors.
- ✓ Less pollution saves on CO filtering system costs.
- ✓ Less road maintenance costs.

#### What other benefits will I gain, using this system?

- ✓ Insure all spaces are fully occupied before closing zones in the lot.
- ✓ Satisfied customers for less hassle during parking.
- $\checkmark$  Maximize your control.
- ✓ Traffic flow optimization.
- ✓ Alerts for vehicles exceeding parking time.
- ✓ Less car pollution in the parking structure.
- ✓ Impressive scenic for a dull parking area
- ✓ Cutting edge technology
- ✓ Prestige

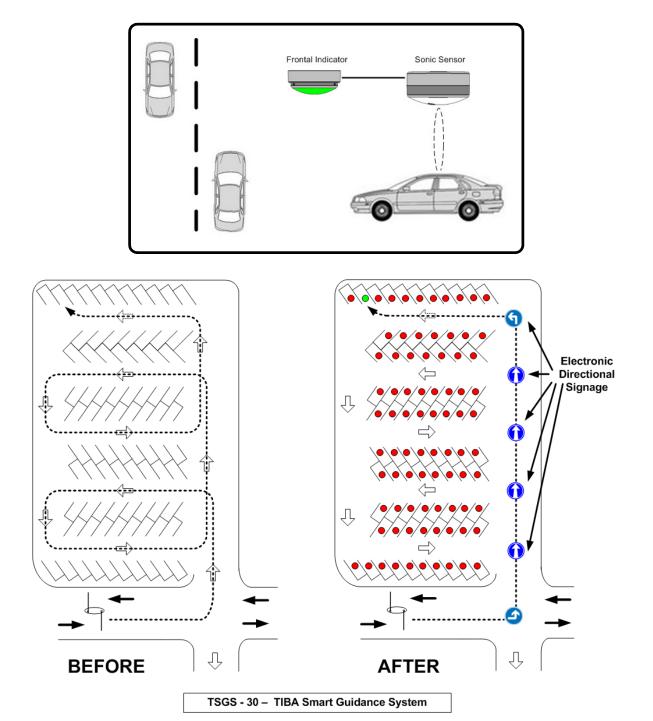
### On the operational side, what are the main differences between a traditional counting system and the TSGS-30?

Traditional counting system requires directional loops placed at the entrance and exit lanes <u>on each parking level</u>. This leads the driver to the parking level but does not guide to the vacant place. Maintenance cost are an issue too when it comes to traditional counting systems.

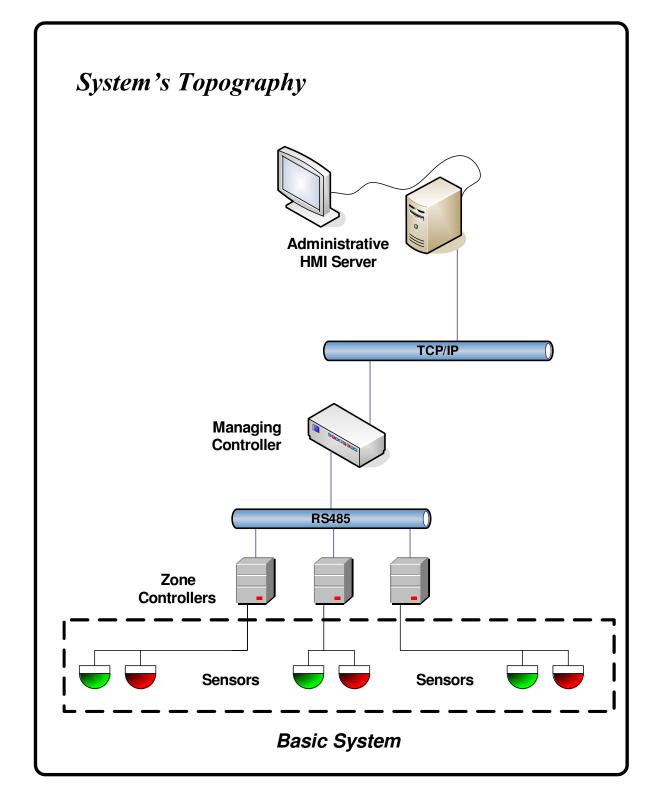


#### How does it work?

Ultra-Sonic sensors placed above each parking space indicate if the space is occupied. The information is sent to the management server, which updates the electronic traffic signage accordingly. The driver will be directed to a low occupancy zone. At the appropriate zone the driver will see a green light that will indicate the available parking space.









G-Sense-30 - Ultra-Sonic parking spot sensor     SPECIFICATIONS       Features     305 cm / 10Ft       LeD Viewing Angle     170 deg.       Luminous     2200 mod.       Gradient luminous     Supported.       Sound wave freq     40 kHz ± 1 KHz       Operation     Processor       Processor     Embedded industrial controller       Communication & retworks     RS-485 industrial controller       Operation     RS-485 industrial controller       Communication & retworks     ScADA real-time management.       Control     (Supervisory Control And Data Acquisition)       Housing - Solid PVC     Sensor dimensions       Weight     Sensor dimensions       Sonic Sensor with Frontal Indicator     87 mm (Width - Diameter)       Howing Provided Control     90 or +80 deg. C       Ordering information     00 restring voltage       Sonic Sensor with Frontal Indicator     Sensor unit includes Green & Red indicators.       Operating information     Sensor unit includes Green & Red indicator.       Operating voltage     12 VDC       Environment conditions     Sensor unit includes Green & Red indicator.       Operating voltage     12 VDC       Environment conditio	G-Sense-30 Series - TIBA Smart Guidance System			
Sensing Distance (Max)     305 cm / 10Ft       LED Viewing Angle     170 deg.       LED Viewing Angle     170 deg.       Luminous     2200 mcd.       Gradient Uminous     Supported.       Sound wave freq     40 kHz ± 1 KHz       Operation     Processor       Processor     Embedded industrial controller       Communication & RS-485 industrial communication.     Operation       Operation     Scaba reactime management.       Operation     Scaba reactime management.       Operation     Scaba reactime management.       Operation     Scaba reactime management.       Other and the second sec	G-Sense-30 - Ultra-Sonic parking spot sensor	SPECIFICATIONS		
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Luminous     2200 mod.       Gradient luminous     Supported.       Sound wave freq     40 kHz ± 1 KHz       Operation     Processor       Embedded industrial controller       Communication & Rs-485 industrial communication.       Operation     Rs-485 industrial communication.       Operation     Rs-485 industrial communication.       Operation     ScaDA real-time management.       Control     Stand-Alone or Remote controlled       Monitoring & ScaDA real-time management.     Control       Control     Sensor dimensions       115 mm (Width - Diameter)     60 mm(Height)       Heasurements     60 mm(Height)       Frontal Indicator dimensions     87 mm (Width - Diameter)       60 mm(Height)     Sensor unit indicator weight       73 gr.     Color       Housing Black or white     Electrical       Power consumption     65 mA       Operating voltage     12 VC       Environment conditions     Gensor unit includes Green & Red indicator in same housing.       G-Sense-30-GR     Sensor unit includes Green & Red indicator in same housing.       G-Sense-30-C-RH     Sensor unit without light indicators.       G-Sense-30-C-RH <t< th=""><td>(Max)</td><td>305 cm / 10Ft</td></t<>		(Max)	305 cm / 10Ft	
Gradient luminous     Supported.       Sound wave freq     40 kHz ± 1 KHz       Operation     Processor       Processor     Embedded industrial controller       Communication & network     RS-485 industrial controlled       Sound wave freq     40 kHz ± 1 KHz       Operation     Processor       Communication & network     RS-485 industrial controlled       Sound wave freq     40 kHz ± 1 KHz       Operation mode     Stand-Alone or Remote controlled       Monitoring & ScApa real-time management.     Control And Data Acquisition)       Housing - Solid PVC     Sensor dimensions       Housing - Solid PVC     Sensor dimensions       Weight     Frontal Indicator dimensions       87 mm (Width - Diameter)     40 mm(Height)       Sensor unit includes or weight     73 gr.       Color     Housing Black or white       Electrical     Power consumption       Power consumption     65 mA       Operating voltage     12 VDC       Environment conditions     Sensor unit includes Green & Red indicator in same housing.       G-Sense-30-GR     Sensor unit includes Red indicators.       G-Sense-30-C-RH     Sensor unit without light indicators.   <				
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Operation       Processor     Embedded industrial controller       Communication & RS-485 industrial communication.     Operation mode       Communication & RS-485 industrial communication.     Operation mode       Operation mode     Stand-Alone or Remote controlled       Monitoring & SCADA real-time management.     Control       Control     Sensor dimensions       115 mm (Width - Diameter)     60 mm(Height)       Frontal Indicator dimensions     87 mm (Width - Diameter)       40 mm(Height)     Frontal Indicator weight       73 gr.     Color       Color     Housing Black or white       Electrical     Power consumption       Power consumption     65 mA       Operating Temp.     -30 to +80 deg. C       Ordering information     G-Sense-30-GR       G-Sense-30-GR     Sensor unit includes Blue & Red indicator, RJ45 type       G-Sense-30-C-PH     Sensor unit without light indicators.       G-Sense-30-C-PH     Sensor unit without light indicator.       G-Sense-30-C-PH     Sensor unit without light indicator.				
Processor     Embedded industrial controller       Communication & network     RS-485 industrial communication.       Operation mode     Stand-Alone or Remote controlled       Monitoring & ScaDa real-time management. (Supervisory Control And Data Acquisition)       Housing - Solid PVC       Sensor dimensions       115 mm (Width - Diameter)       60 mm(Height)       Frontal Indicator dimensions 87 mm (Width - Diameter)       90 mm(Height)       Sensor dimensions       87 mm (Width - Diameter)       90 mm(Height)       Sensor       220 gr.       Frontal Indicator weight       73 gr.       Color       Housing Black or white       Electrical       Power consumption     65 mA       Operating Temp.     -30 to +80 deg. C       Ordering Information       G-Sense-30-GR     Sensor unit includes Green & Red indicator in same housing.       G-Sense-30-C-RJ45     Sensor unit without light indicators. Connects to frontal indicator. RJ45 type       G-Sense-30-C-PH     Sensor unit without light indicators. Connects to frontal indicator. Phoenix.			40 kHz ± 1 KHz	
Communication & RS-485 industrial communication.       Operation mode     Stand-Alone or Remote controlled       Monitoring & ScADA real-time management.       Control     Sensor dimensions       Image: Solid PVC       Housing - Solid PVC       Measurements     60 mm(Height)       Frontal Indicator dimensions       87 mm (Width - Diameter)       60 mm(Height)       Sensor       Weight       Frontal Indicator dimensions       87 mm (Width - Diameter)       40 mm(Height)       Sensor       Weight       Frontal Indicator weight       73 gr.       Color       Housing Black or white       Electrical       Power consumption       65 mA       Operating voltage       12 VDC       Environment conditions       Operating Temp.       30 to +80 deg. C       Ordering Information       G-Sense-30-C-RJ45       Sensor unit without light indicators.       Connects to frontal indicator.       R-Sense-30-C-PH       Sensor unit without light indicators.       Connects to frontal indicator.  <				
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Monitoring & control     SCADA real-time management. (Supervisory Control And Data Acquisition)       Housing – Solid PVC     Sensor dimensions 115 mm (Width - Diameter) 60 mm(Height)       Frontal Indicator dimensions 87 mm (Width - Diameter) 40 mm(Height)     Frontal Indicator dimensions 87 mm (Width - Diameter) 40 mm(Height)       Sensor 200 gr.     Frontal Indicator weight 73 gr.     Color       Color     Housing Black or white       Electrical     Power consumption 00 perating voltage     65 mA 00 perating voltage       Power consumption     65 mA 00 perating to the Blue & Red indicator in same housing.       G-Sense-30-GR     Sensor unit includes Green & Red indicator in same housing.       G-Sense-30-CR     Sensor unit includes Blue & Red indicator.       G-Sense-30-C-RJ45     Sensor unit without light indicators. Connects to frontal indicator.       G-Sense-30-C-PH     Sensor unit without light indicators. Connects to frontal indicator.		network	RS-485 industrial communication.	
control     (Supervisory Control And Data Acquisition)       Housing – Solid PVC       Measurements     Sensor dimensions       115 mm (Width - Diameter)       60 mm (Height)       Frontal Indicator dimensions       87 mm (Width - Diameter)       40 mm (Height)       Sensor       Weight       Frontal Indicator weight       73 gr.       Color       Housing Black or white       Electrical       Power consumption       Power consumption       65 mA       Operating voltage       12 VDC       Environment conditions       Operating Information       G-Sense-30-GR     Sensor unit includes Green & Red indicator in same housing.       G-Sense-30-C-RJ45     Sensor unit without light indicators.       G-Sense-30-C-PH     Sensor unit without light indicators.				
Housing – Solid PVC       Sensor dimensions     115 mm (Width - Diameter)       60 mm(Height)     60 mm(Height)       Frontal Indicator dimensions     87 mm (Width - Diameter)       40 mm(Height)     Sensor       Weight     Z20 gr.       Frontal Indicator weight     73 gr.       Color     Housing Black or white       Electrical     Power consumption     65 mA       Operating voltage     12 VDC       Environment conditions     Operating Temp.     -30 to +80 deg. C       Ordering information     Sensor unit includes Green & Red indicator in same housing.       G-Sense-30-GR     Sensor unit without light indicators.       G-Sense-30-C-RJ45     Sensor unit without light indicators.       Connects to frontal indicator. Phoenix.     Frontal indicator. Phoenix.		0		
Sensor dimensions       115 mm (Width - Diameter)       60 mm(Height)       Frontal Indicator dimensions       87 mm (Width - Diameter)       40 mm(Height)       Sensor       220 gr.       Frontal Indicator weight       73 gr.       Color       Hower consumption       65 mA       Operating Voltage       12 VDC       Environment conditions       Operating Temp.       -30 to +80 deg. C       Ordering information       G-Sense-30-GR       Sensor unit includes Green & Red indicator in same housing.       G-Sense-30-BR       Sensor unit without light indicators.       G-Sense-30-C-RJ45       Sensor unit without light indicator. RJ45 type       G-Sense-30-C-PH       Sensor unit without light indicator. RJ45 type		control	(Supervisory Control And Data Acquisition)	
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Image: Sonic Sensor with Frontal Indicator       Frontal Indicator       Sonic Sensor with Frontal Indicator       G-Sense-30-GR       Sensor unit includes Green & Red indicator in same housing.       G-Sense-30-BR       Sensor unit without light indicators.       G-Sense-30-C-RJ45       G-Sense-30-C-PH       Sensor unit without light indicators.       Connects to frontal indicator. Phoenix.       Frontal indicator. Phoenix.			65 m A	
Sonic Sensor with Frontal Indicator       Frontal Indicator       Frontal Indicator       G-Sense-30-GR       Sensor unit includes Green & Red indicator in same housing.       G-Sense-30-GR       Sensor unit includes Blue & Red indicator in same housing.       G-Sense-30-BR       Sensor unit without light indicators.       Connects to frontal indicator. RJ45 type       G-Sense-30-C-PH       Sensor unit without light indicators.       Connects to frontal indicator. Phoenix.       Frontal indicator. Green & Red indicator.				
Sonic Sensor with Frontal Indicator     Operating Temp.     -30 to +80 deg. C       Ordering information     G-Sense-30-GR     Sensor unit includes Green & Red indicator in same housing.       Frontal Indicator     Sonic Sensor     G-Sense-30-BR     Sensor unit includes Blue & Red indicator in same housing. (Handicaps)       G-Sense-30-C-RJ45     Sensor unit without light indicators. Connects to frontal indicator. RJ45 type       G-Sense-30-C-PH     Sensor unit without light indicators. Connects to frontal indicator. Phoenix.				
Sonic Sensor with Frontal Indicator     Ordering information       G-Sense-30-GR     Sensor unit includes Green & Red indicator in same housing.       Frontal Indicator     Sonic Sensor       G-Sense-30-BR     Sensor unit includes Blue & Red indicator in same housing. (Handicaps)       G-Sense-30-C-RJ45     Sensor unit without light indicators. Connects to frontal indicator. RJ45 type       G-Sense-30-C-PH     Sensor unit without light indicators. Connects to frontal indicator. Phoenix.       Frontal indicator. Green & Red indicator.     Frontal indicator. Phoenix.				
Sonic Sensor with Frontal Indicator     G-Sense-30-GR     Sensor unit includes Green & Red indicator in same housing.       Frontal Indicator     Sonic Sensor     G-Sense-30-BR     Sensor unit includes Blue & Red indicator in same housing. (Handicaps)       G-Sense-30-C-RJ45     G-Sense-30-C-RJ45     Sensor unit without light indicators. Connects to frontal indicator. RJ45 type       G-Sense-30-C-PH     Sensor unit without light indicators. Connects to frontal indicator. Phoenix.				
G-Sense-30-GR indicator in same housing. G-Sense-30-BR Sensor unit includes Blue & Red indicator in same housing. (Handicaps) G-Sense-30-BR Sensor unit without light indicators. G-Sense-30-C-RJ45 Sensor unit without light indicator. RJ45 type G-Sense-30-C-PH Sensor unit without light indicators. Connects to frontal indicator. Phoenix. Frontal indicator. Green & Red indicator.				
Frontal Indicator     Sonic Sensor       G-Sense-30-BR     indicator in same housing. (Handicaps)       G-Sense-30-C-RJ45     Sensor unit without light indicators. Connects to frontal indicator. RJ45 type       G-Sense-30-C-PH     Sensor unit without light indicators. Connects to frontal indicator. Phoenix.       Frontal indicator. Green & Red indicator.	Sonic Sensor with Frontal Indicator	G-Sense-30-GR		
G-Sense-30-C-RJ45     Connects to frontal indicator. RJ45 type       G-Sense-30-C-PH     Sensor unit without light indicators. Connects to frontal indicator. Phoenix.       Frontal indicator. Green & Red indicator.	Frontal Indicator Sonic Sensor	G-Sense-30-BR		
G-Sense-30-C-RJ45     Connects to frontal indicator. RJ45 type       G-Sense-30-C-PH     Sensor unit without light indicators. Connects to frontal indicator. Phoenix.       Frontal indicator. Green & Red indicator.		G-Sense-30-C-RJ45	Sensor unit without light indicators.	
G-Sense-30-C-PH Connects to frontal indicator. Phoenix. Frontal indicator, Green & Red indicator.			Connects to frontal indicator. RJ45 type	
Frontal indicator. Green & Red indicator.		G-Sense-30-C-PH	Sensor unit without light indicators.	
Frontal indicator. Green & Red indicator.			Connects to frontal indicator. Phoenix.	
G-IND-30-GR Connects to G-Sense-30-C-RJ45 / C-PH		G-IND-30-GR		
G-IND-30-BR Frontal indicator. Blue & Red indicator, Connects to G-Sense-30-C-RJ45 / C-PH		G-IND-30-BR	Connects to G-Sense-30-C-RJ45 / C-PH	