

# TCM ENGINE



## PARKING GUIDANCE SYSTEM

PRODUCT PRESENTATION



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# INTRODUCTION

Nowadays, the Parking Lots are surplus areas in build constructions that are finally used to that end just for parking. What happens then, is that all this surfaces have not been specifically designed to be used as Parking Lots, and keep same building structure they have over them (Columns, Walls, Ramps, Concrete, etc). Therefore, a logical effect is produced, all vehicles have parking place finding problems, derivate from disorientation suffered at parking when trying to find an empty place.

Solutions adopted then are:

**Provide Parking Lots the Maximum quantity of places possible.** (The, most places, the most vehicles); **ERROR 1:** More Places equals to less rotation and traffic increase.

**Force vehicles to Snake all around the parking area.** (This way will increase possibilities of finding empty places, as users go around all parking); **ERROR 2:** The longest the tour, the biggest the stress, the biggest the disorientation, the biggest driving, and at the end the less rotation.

**Increase human resources in the Parking to drive traffic fluently to empty zones** (This people will open and close zones manually); **ERROR 3:** One person can close a zone because it is complete, but at the moment it gets free places, a closed zone will remain in the parking lot, and the operator will not realize. You will be giving the worst service and Image to your clients.

**Design double traffic lanes** (Double traffic circulation facilitates access to any zone, lane or place directly); **ERROR 4:** Double traffic circulations increases traffic, and facilitate that more than one vehicle arrive to a place where there are not enough places for all.

So, finally what can we say, all solutions adopted end in a severe expense increase, or in a loss or parking lot rotation, or even often in both, and this will become big economic loses from your parking lot. The most important is not to fill up you parking lot; the most important is to be able to make park as vehicles as many times as possible, this is called rotation. You have 1.000 places; the most important is not to arrive to 1.000, but to be able to enter 900 vehicles i.e. 5 times a day, what makes 4.500 vehicles. Less traffic, Better Signing and a Parking Guidance are the way to obtain that.

*SIGA = MAXIMUM PROFIT FROM YOUR PARKING LOT*



# WHY A PARKING GUIDANCE SYSTEM?

At TCM, we have developed, manufactured and installed an amazing system that solves all the problems mentioned before, and allows you to transform them into benefits for you and your clients. We call it SIGA, and is based in next principles

**First:** **Sign all Parking Places.** Using an ultrasonic sensor, with a Led cap. The sensor will detect if place is busy or occupied. The Led will display the result, green for occupied and red for busy.



**Second:** **Sign all those points where vehicles must decide direction to go.** Displaying empty places at each direction. Using matrix SMD Led programmable signs. The sign placed right before the point where driver must take a decision, will just display places on each direction, and will help him easily finding where to park.



**Third:** **Manage all this components and obtain information from them.** The software will manage all the components, and at the same time will allow us to automate in several ways the parking Lot (Opening and Closing Zones, Aisles and Floors, in example). And of course will display in a graphic mode all statistics of your installation.



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# BENEFITS FOR THE OPERATOR

Benefits that suppose an Increase of Incomes:

- 1<sup>st</sup> **Increase in occupation** up to the last empty place Even those that are never found or hidden, now will be potentially ocupable, as they will be displayed on directional signs to arrive there.
- 2<sup>nd</sup> **Increase of entries.** At the same moment a place is being empty, and even with the car not outside the parking lot yet, the system allows automatically a new vehicle in. Probably new vehicle will have parked before toe outgoing one is still on the way out. 3<sup>o</sup>
- 3<sup>rd</sup> **Increase of Rotation** minimum of four times your parking places available. The fact of traffic reducing, parking time decreasing, improve leaving and entering etc. makes possible the in maximum occupancy situations, the parking lot will continue accepting more vehicles, as empty places will be detected.
- 4<sup>th</sup> **Possibility of hour price adapt**, depending on occupation.
- 5<sup>th</sup> **Get your clients Loyalty now.** Your parking lot, will never again be a problem, the going again effect will be created. Forget about hearing: Do not go there, it is impossible to park.

Benefits that suppose a decrease in your expenses:

- 1<sup>st</sup> **Approximate reduction of 75% in your invoice of electrical consumes derivate from CO extraction.** No more traffic jams, no more vehicles in constant circulation, and then, as you will not reach danger CO levels, extractors will not work.
- 2<sup>nd</sup> **Approximate reduction of 50% in your invoice of electrical consumes derivate from illumination.** As you will be able to manage places, aisles, zones and floors, you will automate the turning on and off of illumination depending on real occupation. No more empty floor with lights on.
- 3<sup>rd</sup> **Approximate reduction of 100% in your invoice of extraordinary labor hand.** Parking traffic and occupation will manage by itself. You will never need again labor hand to canalize traffic on rush hours, and either to help driver to park
- 4<sup>th</sup> **Approximate reduction of 75% in maintenance expenses.** When reducing circulation and pollution, your parking, that basically gets dirty of smog, and gets wasted of wheel circulating, will not require permanent cleaning and often repainting.
- 5<sup>th</sup> **Approximate reduction of 75% in your invoice of extra signing materials** brought to you when traffic jams, you will never need again (Vertical Signs, Portable Walls, Cones, etc).

# BENEFITS FOR THE USER

- 1<sup>st</sup> Save in time and money, they enter and just park.
- 2<sup>nd</sup> Fluid circulation, parking area is not collapsed.
- 3<sup>rd</sup> Clear signs, they are not directed to occupied zones.
- 4<sup>th</sup> Visible signs, any sign will be visible for more than 100 m.
- 5<sup>th</sup> Facility and Comfort, any indication is perfectly understood.
- 6<sup>th</sup> Help receiving sensation from the entrance.
- 7<sup>th</sup> Stress Decrease, nerves are not generated because of not being able to park.
- 8<sup>th</sup> Decrease of oil consume, no more stupid turn a rounds.
- 9<sup>th</sup> Decrease of vehicle waste and no more parking crashes.
- 10<sup>th</sup> Security and friendly feeling.

## PARKING WITHOUT SIGA



## PARKING WITH SIGA



# WHY TCM AND NOT OTHE SUPPLIERS?

TCM's system has evolved from the existent systems at the market, and that supposes a compendium of the most important values and features of each one of them. Adopting the most important features, and leaving away those others not needed.

Then, we can confirm that SIGA stands out overall concurrence, due to next 10 reasons:

- 1<sup>st</sup> System adaptable to any type of parking lot. SIGA will be designed taking profit of your structure to optimize it to the maximum.
- 2<sup>nd</sup> System adaptable to any type of ceiling. SIGA is installed in the most ideal way, to fit it to the ceiling you have, at the minimum cost.
- 3<sup>rd</sup> Standard detection up to 5,5m height.
- 4<sup>o</sup> Detection 100% true. No mistakes on sensors, produced by interferences or rare vehicles.
- 5<sup>th</sup> Counting 100% true. No mistakes on places displayed at signs.
- 6<sup>th</sup> Signs matrix SMD, High Intensity. This signs as being matrix structure can be used with as many different messages as you may need (not only numbers).
- 7<sup>th</sup> Special signs, to be used at determinate cases (Emergency, pedestrians, Information, Publicity).
- 8<sup>th</sup> Product lasting more than 20 years, and with a 5 year warranty.
- 9<sup>th</sup> More than 10 years experience in technology development and integration supports us. We can develop special features if required, we are prepared to, and we have already done it lots of times.
- 10<sup>o</sup> Real competitive price, investment can be amortized very easily. If you look for the best product and the best price, SIGA is what you need.

BEGIN TO OPTIMIZE YOUR PARKING LOT

REQUEST ORIENTATIVE BUDGET NOW

WE ARE WAITING FOR YOUR CONTACT