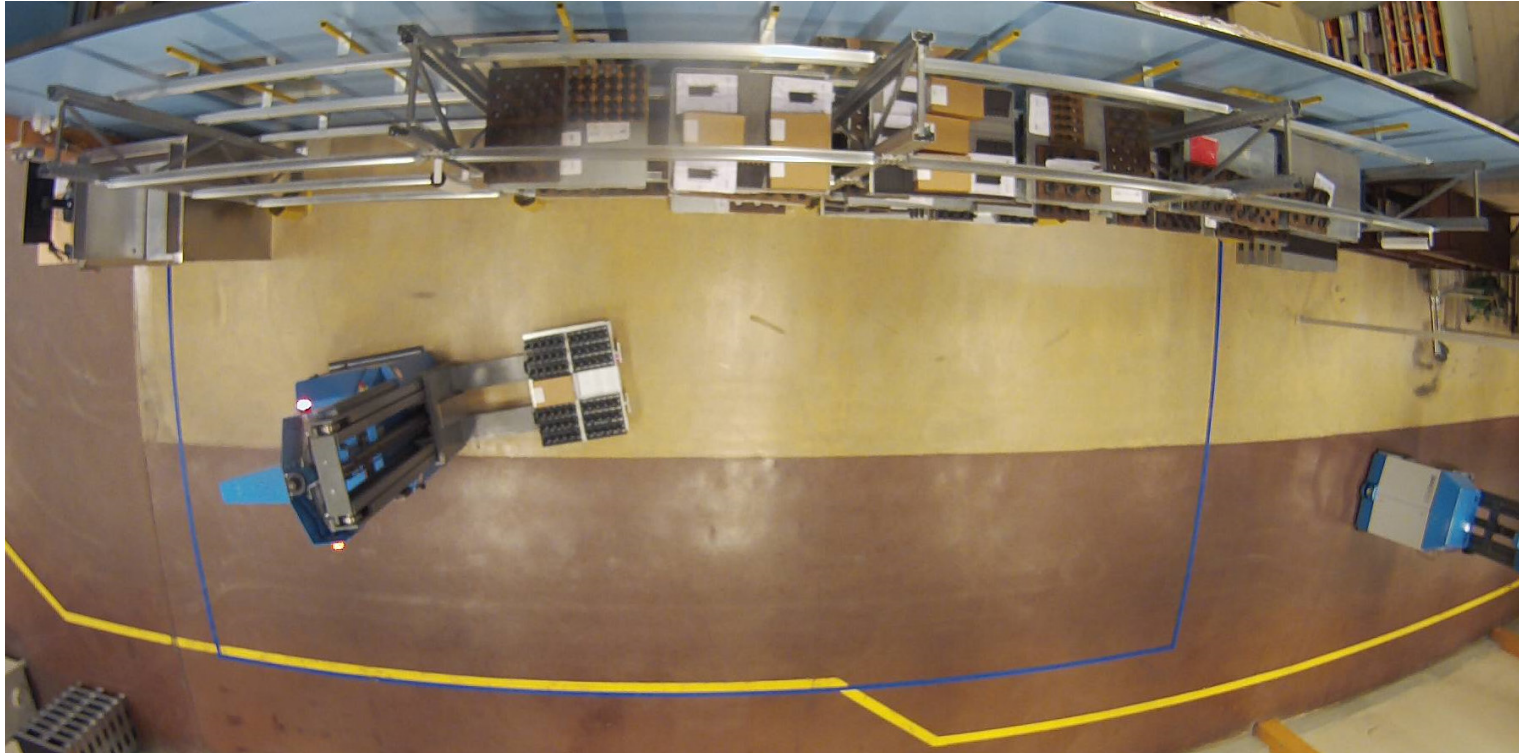


# MAX/AGV



Advanced signal system for MAXAGV

## SoftVision® ZoneControl

**Monitor a large area with only one sensor!**

**SoftVision®** ZoneControl is a vision system that can monitor a large area with just one camera and replace the need for multiple photocells to indicate status of pick-up and drop-off locations to the MAXAGV-system.

The system can cover large areas on the factory floor with multiple locations to tell Max whether they are available or not. The same type of monitoring can be used in a rack to determine the availability of free positions.

Special loading modules, like fixtures designed for a specific load type, can have extended statuses like fixture available, fixture loaded and fixture missing.

Another function is to monitor specific zones and to stop AGVs from entering these zones if another object or person is in it. This is useful when having AGVs combined with manual traffic to avoid deadlock situations.

Contact us or visit [www.maxagv.com](http://www.maxagv.com) to read more about our systems!

 2D cameras

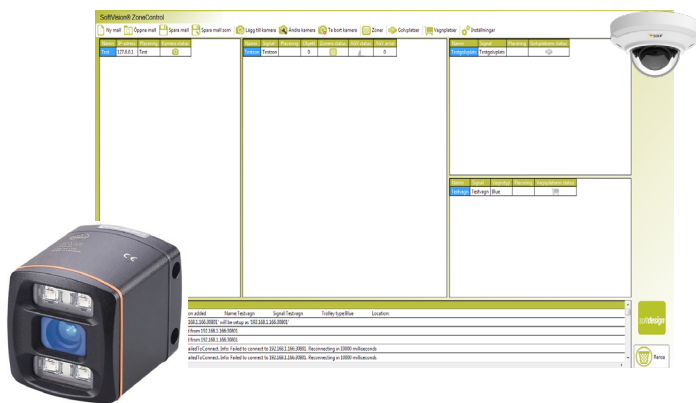
 3D cameras

 MAXAGV online

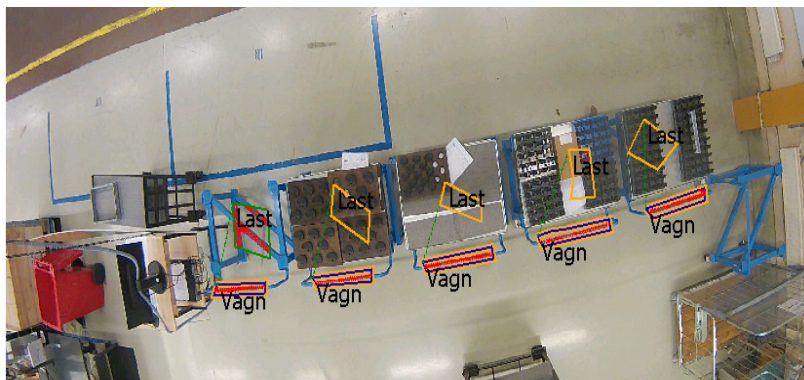
[www.maxagv.com](http://www.maxagv.com)

## SoftVision® ZoneControl can use both 2D and 3D technology to determine the status!

Depending on object characteristics SoftVision® ZoneControl uses different camera technologies.



For objects that can create a distinguished difference between an occupied and a free space, the 3D camera is the most robust solution. Objects with too small differences in volume will instead be inspected with a 2D camera, where differences in colour is recognized.



## Typical field of view per camera

This table illustrates the typical field of views a particular camera will have at a certain distance from the floor or object.

Distance (m)	3D camera FOV (m)	2D camera narrow FOV (m)	2D camera wide FOV (m)
1	1,00x0,75	1,50x0,85	2,35x1,30
2	2,00x1,50	3,30x1,85	5,00x2,80
3	3,00x2,25	5,00x2,80	7,65x4,30
4	4,00x3,00	6,75x3,80	10,35x5,80
5	5,00x3,75	8,50x4,75	13,00x7,30
6	6,00x4,5	10,25x5,75	15,65x8,80
7	7,00x5,25	11,95x6,70	18,30x10,30
8	8,00x6,00	13,70x7,30	20,95x11,75
9	9,00x6,75	15,45x8,70	23,60x13,25
10	10,0x7,50	17,20x9,65	26,25x14,75



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## SoftVision® ZoneControl replaces expensive multi-sensor solutions

### SPECIFICATIONS

**SYSTEM:** SoftVision® ZoneControl

Advanced signaling to the MAXAGV system used for locations on the floor or in a rack, special load carrying wagons and for zones with exclusivity.

**TECHNOLOGY:** The system uses different recognition techniques depending on the object.

**PERFORMANCE:** The system can handle more than 30 cameras with over 10 locations in each camera.

**HARDWARE:** Runs on MAXAGV server.

**INTERFACES:** Ethernet communication with MAXAGV system, standard port is 30801.

The 3D camera communicates over Ethernet where its standard port is 50010.

The 2D cameras also uses Ethernet, standard port is 80.

