Passive and active markers

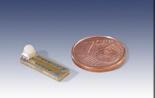


ART provides a variety of different markers and marker types, according to the requirements of each installation.

Active markers

Active markers are infrared light emitting elements, mostly LEDs. Due to their flexibility, active markers are ideal for custom targets and customized solutions.









Marker type	Visibility	IR Range	Description
Active	limited +/- 60°	up to 10 m	- electronics and power supply necessary
- single LED			- can be covered with acrylic protection film
Active	optimum angular	up to 4.5 m	- electronics and power supply necessary
- single LED	range of visibility		
- with diffusor			****
sphere			***************************************
Big active	from all sides	up to 20 m	- electronics and power supply necessary
- spherical		-	- suitable for outdoor tracking
Big active	angular range of	up to 20 m	- electronics and power supply necessary
- flat	visibility limited		- suitable for outdoor tracking
	+/- 90°		- magnetic base for easy positioning on metal
			surfaces

Passive markers

Passive markers are retroreflective, i.e. they reflect the incoming IR radiation into the direction of the incoming light.



Marker type	Visibility	IR Range	Description
Passive	from all sides	4 – 10 m *	- sensitive surface
- spherical			
Passive	from all sides	3 – 7 m *	- robust surface
- spherical			
- coated			
Passive	limited +/- 45°	4 – 10 m *	- cheap
- flat			- more robust surface possible

^{*} depending on tracking camera type and marker size

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