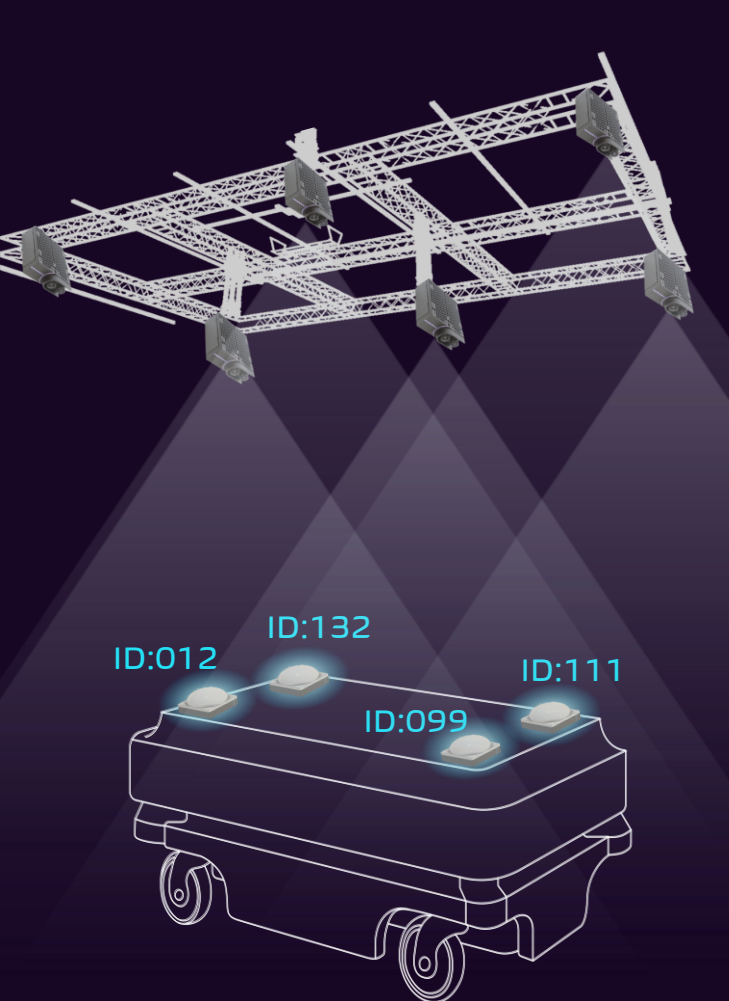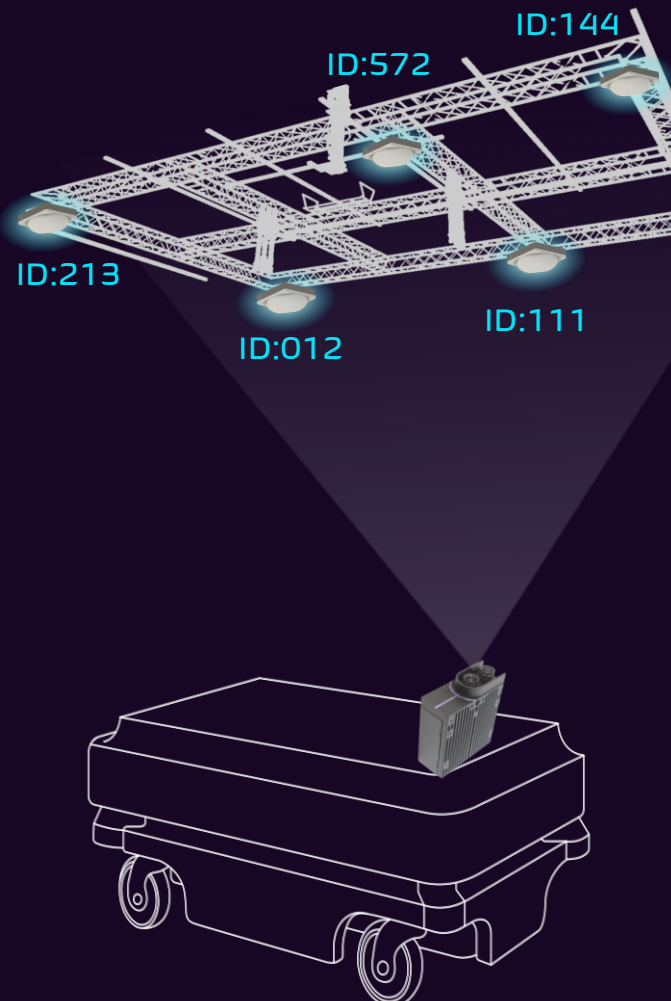# **Foveator** Track

High-speed, ultra-robust optical positioning

Fast, ultra-robust, all-weather tracking for GPS-denied indoor & outdoor environments

- All-in-one, full-service solution
- Unique per-device IDs
- Highly accurate, full 3D output
- Fast, easy configuration to cover any area

ID:144
ID:572
ID:213
ID:012
ID:111

ID:012
ID:132
ID:111
ID:099

Outside-In Tracking

Inside-Out Tracking

What is Foveator Track?

Foveator Track enables precise, fast positioning of assets using active infrared LED markers and compact, power-efficient smart camera technology. It uses patented neuromorphic sensing, that works like the human retina.

Foveator Track can be used in Inside-Out (moving camera, stationary markers) or Outside-In (stationary cameras, moving markers) mode. One server can connect thousands of cameras tracking thousands of markers simultaneously.

iniVation provides Foveator Track on an all-in service basis (hardware + SaaS) to solve your tracking problem in your area of activity.

3D mapping server

Tracking nodes

Active infrared markers

Key features

⚡ **Ultra-fast**
High speed, low latency

Unique ID
Every marker identified

Ultra-reliable
Robust against distractors

Long range
From 1 m to outer space

Technology Comparison

Foveator Track provides the most robust, fast, configurable tracking solution for the widest range of moving assets in all environments

Method	Unique IDs	Range	Full 3D tracking	Robust to interference	Easy installation & reconfiguration	Works outdoors day/night
Laser ranging	Yes	Medium	Yes	Medium	No	No
Optical QR code	Yes	Low	No	Low	Yes	No
Inductive wire	No	Low	No	Medium	No	No
Magnetic tape	Yes	Low	No	Medium	No	No
Natural visual features	No	High	Yes	Low	Yes	(Yes)
Passive reflective markers	No	Low	Yes	High	Yes	No
Foveator Track	**Yes**	**High**	**Yes**	**High**	**Yes**	**Yes**

Applications

Foveator Track works anywhere you need to track your valuable moving assets in real-time, without GPS.

- Factory & warehouse logistics: AGVs, forklifts, trucks

- Sites for construction, exploration, mining

- Entertainment: real-time XR data from room to stadium

- Scientific research

www.inivation.com

Foveator Track