



Real-Time Location System Plus (RTLS+)

Real-Time Location System Plus (RTLS+) leverages video analytics, geo-fencing, and beacons to accurately locate, identify, and monitor an asset's location and movement within a healthcare facility.

● **Challenge**

Healthcare facilities battered by the COVID-19 pandemic, as well as long-term competitive pressures, are struggling to reduce costs and improve productivity. One emerging priority – particularly for smaller regional providers subject to consolidation – is improved oversight of mobile clinical assets and hospital equipment. The problem is real: a hospital's mobile assets can number in the thousands and represent tens of millions in total investment.

On average, hospitals experience an annual shrinkage loss of between 15 percent to 35 percent of total asset costs. Untended, expensive medical equipment such as mobile ventilators, x-ray machines and ultrasound equipment are easy and attractive targets for theft. Absent adequate tools and procedures to track equipment, hospitals are forced to make additional equipment purchases and rentals, resulting in bloated inventories and extra maintenance and service costs. More importantly, hard to find devices can delay urgent services for patients and compromise the quality of care.

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The Solution

Our RTLS+ solution leverages AI & ML based video analytics, geo-fencing, and beacons to accurately identify and monitor an asset's location and movement within a healthcare facility. Easy to deploy, the solution leverages existing video equipment and infrastructure while operating independently of hospital information systems. Assets are tagged with cost-effective QR codes and beacons to provide a foolproof strategy to avoid shrinkage.

Competing solutions, meanwhile, rely on more expensive RFID components. Geo-fencing defines safe, cautious, and dangerous zones within a facility; when an asset crosses a geo-fenced border, an alert is issued identifying the asset as well as the precise location of the breach. AI & ML enabled video analytics identify both stationary and moving assets' type and location and provide an additional safeguard if beacons are removed. Asset utilization data can be integrated to provide detailed insights into maintenance history.

“RTLS+ locates unattended assets with pinpoint accuracy.”

● **Benefits**

- › Rapidly identify and access essential healthcare equipment.
- › Receive real-time notifications/alerts when assets move outside geo-fenced zones.
- › Reduce equipment theft and asset replacement.
- › Identify and locate the precise location of stationary assets.
- › Drive cost savings that can be re-invested into patient care.
- › Increase utilization to reduce excess inventory.
- › Improve asset utilization, asset life cycle management and asset replacement.
- › Gain insights into maintenance history.
- › Reduce insurance liability—provides optional tracking of patients to enforce masking and social distancing policies.

“**Receive real-time notifications/alerts** when assets move outside geo-fenced zones.”

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