# HyperX Long Distance readers

Operating Principle

Balogh HyperX™ tag is electro-magnetically inactive when outside of the reader's range. It's state-of-the-art feature (registered patent) is its capacity to reflect incident microwaves - a tag receiving a 2.45 GHz carrier will echo this signal, modulated by its individual identification code, back to the reader. The reader receives and processes this signal, sending the data to a host system via a standard serial interface.
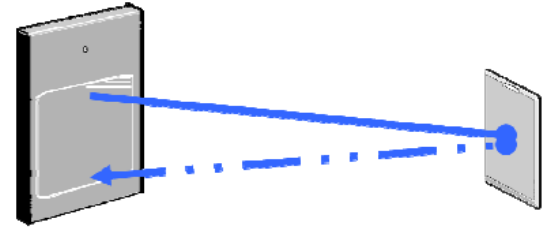
Products

Balogh technologies for long distance access control enable safe and discreet identification of people, vehicles and equipment in all types of environments. The HyperX™ product range allows fully automatic identification from distances of 2m to over 10m of people and vehicles in total safety and discretion. BALOGH HyperX™ range of readers and badges provide long distance and reliable detection even in the most harsh of environments.
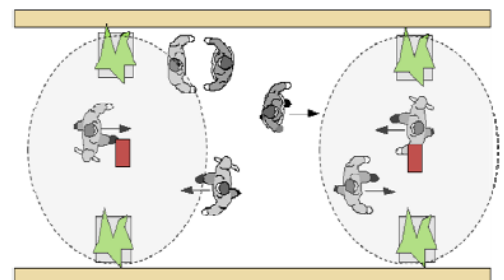
Personal and vehicle access

- Top security transmission protocol
- Safe access control with multi Identification
- Dual technology for vehicle and personnel access
- Identification of occupants inside moving vehicles
- Easy to use & demonstrates the prestige of your organization
- Seamless integration preserving your environment
- Anti-theft capabilities for protection of your equipment en data
- Constant product reading distances

Application Examples

Pedestrian Multi-identification

LPR3011-2m and LMB6013-3m readers are installed directly on the ceilings or above doors. This solution enables true hands-free personnel access control or tracking people at specific identification points. BDG1020 single or BDG1024 dual technology badges
are used for these applications.

Passenger Multi-identification

LMB6033/34/35 readers installed at site entrances enable identification of all passengers wearing BDG1020 or BDG1024 badges seated inside moving vehicles.

HS-PAS
Parking Access Security
adviseert en denkt met u mee!

BALOGH
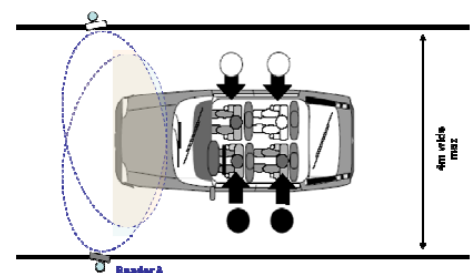
Vehicle Access Control and Parking Access

- Long range identification - Fast vehicle access
- Safety to secure parking areas
- Identification of occupants inside vehicles
- Comfort of use & prestige of your organization

- Reliability of operation reinforced
- Directivity & accuracy ensured
- Constant reading distances
- Dual technology for vehicle and personnel access

Application Examples

Vehicle access control

Balogh BDG1020 tag combined with LPR3011 or LMB series readers allow fast and fully automatic entrance and exit to designated areas for authorized vehicles.

Convenient to use, the Driver does not need to roll down the window to present the badge and remains safetly inside the vehicle.

Balogh dual technology BDG1024 badge enables drivers to use the same badge also for short distance access to office buildings.

Readers are directly installed on underground car park roofs and can also be mounted on posts or directly integrated inside car park terminal equipment. Ideally suited for commercial and corporate parking areas, gated communities, airport parking, university parking and hospitals.

Automatic Vehicle Identification using BALOGH 2.45Ghz products minimizes traffic congestion and queuing times by enabling a continuous flow of traffic.

Balogh LMB series readers are used for wide lanes on open parking areas.

Badges are positioned behind the windscreen and are read inside the moving vehicle at a distance from 2m to over 10m by Balogh HyperX™ readers.
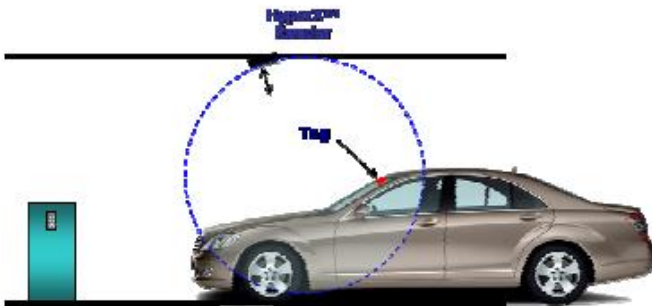
Fleet management

Trucks – Buses – Wagons – Containers – Light vehicles

- Fast vehicle access - High speed identification
- Long distance detection
- Products designed for harsh environments
- Identification of occupants inside vehicles
- Reliability of operation reinforced

- Directivity and accuracy ensured
- Constant reading distances
- Robust industrial products
- ATEX products for use in explosive zones

Application Examples

Heavy vehicles

LMB6033/34/35 readers can be linked to fuel pumps or scales. Data contained in the BDG1090 or BDG1020 badges is instantly transmitted to a central host. BALOGH's ATEX certified product range is used in explosive zones.

LMB6033/34/35 readers mounted on poles identify BDG1090 and BDG1020 badges mounted outside the vehicles or fixed behind the windshields at a distance of over 10m.

The products are used to increase vehicle traffic flow and authorize or refuse entrance and exit to specific areas. City vehicles (buses, ambulances….) equipped with BDG 1090 or BDG1020 tags are identified at key junctions and given priority treatment through traffic light sequencing.