

People Detection

Library & DVK90642

Unlock advanced People Detection and Counting for space-constrained environments with the DVK90642 Evaluation Kit and free precompiled Library. This solution is optimized for ceiling-mounted use in elevators and similar cabin-like structures, providing privacy-preserving occupancy awareness to drive energy optimization and smart office management.



Key features

Library people detection

- ✓ Ready-to-use algorithm
 - Lightweight and optimized for low CPU and memory usage
 - No training or recalibration needed on-site
 - Privacy-friendly: no visual image
- ✓ Hardware agnostic
- ✓ Works in complete darkness
- ✓ Reliable even when people aren't moving
- ✓ Real-time monitoring

Metrics available

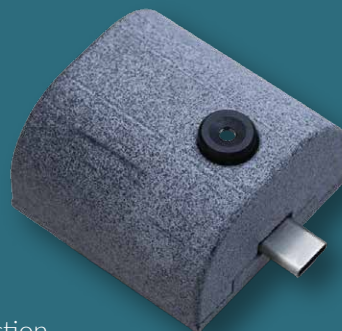
- ✓ Detection Status: Humans detected / not detected
- ✓ Occupancy Count: Number of people within the scene
- ✓ Location Data: Coordinates within the thermal image

Applications

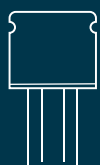
- Elevator Management & Safety
- Smart Building & Office Management
- Energy Optimization (e.g., lighting/HVAC control)
- Security & Access Control Systems

Evaluation

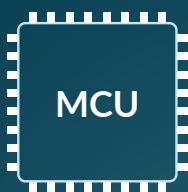
Development kit



DVK90642 people detection development kit for fast prototyping



FIR array
MLX90642



People
Detection



melexis.com/DVK90642
melexis.com/Library-people-detection