## MERA Lift Requirements

### SHALL - Commercial Claims

***Note:*** *these requirements exist to satisfy the needs of our clients, and to be used for our product's advertisement.*

*It is strongly preferred for these requirements to have objective quantitative measures such that they can hold up in court as a compelling evidence. As a start, all the requirements will be validated by in-house testing.*

**AI *shall* determine people’s gender with acceptable accuracy.**

Min. spec: 85.0%

Max. spec: 99.7%

Validation plan: Test Plan LCC-01: Gender Classification

Validation result: Test Report LCC-01: Gender Classification

Target validated: Q3 2020

**AI *shall* determine ads Reach with acceptable accuracy.**

Min spec: 85.0%

Max. spec: 99.7%

Validation plan: Test Plan LCC-02: Reach Classification

Validation result: Test Report LCC-02: Reach Classification

Target validated: Q3 2020

**AI *shall* determine ads Impression with acceptable accuracy.**

Min spec: 85.0%

Max. spec: 99.7%

Validation plan: Test Plan LCC-03: Impression Classification

Validation result: Test Report LCC-03: Impression Classification

Target validated: Q3 2020

**AI *shall* determine people’s age with acceptable accuracy.**

Min spec: 85.0%

Max. spec: 99.7%

Validation plan: Test Plan LCC-04: Age Classification

Validation result: Test Report LCC-04: Age Classification

Target validated: Q3 2020

**Device *shall* update to server frequently.**

Min spec: 1 update/hour

Max. spec: 1 update/minute

Validation plan: Test Plan LCC-05: Connection Reliability

Validation result: Test Report LCC-05: Connection Reliability

Target validated: Q3 2020

**Device *shall* detect which advertisement is displayed with acceptable accuracy.**

Min spec: 95.0%

Max. spec: 99.7%

Validation plan: Test Plan LCC-06: Advertisement Detection

Validation result: Test Report LCC-06: Advertisement Detection

Target validated: Q3 2020

**Device *shall* be secure in handling data.**

Min spec: NA

Max. spec: NA

Validation plan: Data Ethics Guideline

Validation result: Peer Review with Core Mera Team

Target validated: Q3 2020

**Device *shall* have a long runtime.**

Min spec: 2160 hours of continuous operation

Max. spec: 9999 hours of continuous operation (outliers to be force-retired)

Validation plan: Test Plan LCC-07: Device Life

Validation result: Test Report LCC-07: Device Life

Target validated: Q3 2020

### MUST - User Safety and Comfort

***Note:*** *these requirements exist to protect all relevant stakeholders involved in the operation of the tangible aspect of our product.*

*It is strongly preferred for these requirements to have objective quantitative measures such that they can hold up in court as a compelling evidence. As a start, all the requirements will be validated by in-house testing.*

**Device *must* be quiet.**

Min spec: 0dB at 1m distance

Max. spec: 62dB at 1m distance (-10dB from ambient noise)

Validation plan: Test Plan LUC-01: Device Acoustics

Validation result: Test Report LUC-01: Device Acoustics

Target validated: Q3 2020

**Device electronics *must* not emit excess heat.**

Min spec: 25 degrees Celsius @24 hr operation time

Max. spec: 80 degrees Celsius @24 hr operation time

Validation plan: Test Plan LUC-02: Device Temperature

Validation result: Test Report LUC-02: Device Temperature

Target validated: Q3 2020

**Device *must* not emit toxic materials.**

Min spec: NA

Max. spec: NA

Validation plan: Material Database

Validation result: Peer Review with Core Mera Team

Target validated: Q3 2020

**Device *must* have abnormal case detections and shutdown procedures.**

Min spec: NA

Max. spec: NA

Validation plan: Disruption Handling Database

Validation result: Peer Review with Core Mera Team

Target validated: Q4 2020

**Device *must* be electrically insulated.**

Min spec: -

Max. spec: no leakage

Validation plan: Test Plan LUC-03: Device Electrical Insulation

Validation result: Test Report LUC-03: Device Electrical Insulation

Target validated: Q4 2020

**Device *must* be firmly mounted on the wall.**

Min spec: 20N (approx. 10x device weight)

Max. spec: -

Validation plan: Test Plan LUC-04: Device Mounting

Validation result: Test Report LUC-04: Device Mounting

Target validated: Q4 2020

### SHOULD - Design Excellence

*Note: these requirements exist to ensure we deliver the best product in the market, and to ensure a pleasant product experience to the relevant stakeholders in the fabrication, shipment, storage, installation, operation, and disposal of the tangible aspect of our product.*

**Dashboard *should* update frequently.**

Min spec: 1 update/hour

Max. spec: 1 update/minute

Validation plan: Test Plan LDE-01: Dashboard Responsiveness

Validation result: Test Report LDE-01: Dashboard Responsiveness

Target validated: Q4 2020

**Device *should* be aesthetically pleasing.**

Min spec: NA

Max. spec: NA

Validation plan: Product Design Guideline

Validation result: Peer Review with Core Mera Team

Target validated: Q4 2020

**Device *should* clearly show Mera brand.**

Min spec: NA

Max. spec: NA

Validation plan: Product Design Guideline

Validation result: Peer Review with Core Mera Team

Target validated: Q4 2020

**Device *should* be resilient to tampering.**

Min spec: NA

Max. spec: NA

Validation plan: Product Design Guideline

Validation result: Peer Review with Core Mera Team

Target validated: Q4 2020

**Device *should* be minimalistic.**

Min spec: NA

Max. spec: NA

Validation plan: Product Design Guideline

Validation result: Peer Review with Core Mera Team

Target validated: Q4 2020

**Device *should* be operable in dynamic light conditions.**

Min spec: 100 Lux

Max. spec: 10,000 Lux

Validation plan: Test Plan LDE-02: Camera Sensitivity

Validation result: Test Report LDE-02: Camera Sensitivity

Target validated: Q4 2020

**AI *should* determine stay duration of people in the lift with acceptable accuracy.**

Min spec: 85.0%

Max. spec: 99.7%

Validation plan: Test Plan LDE-03: Duration Detection

Validation result: Test Report LDE-03: Duration Detection

Target validated: Q4 2020

**Device *should* be serviceable.**

Min spec: NA

Max. spec: NA

Validation plan: Technical Work Instruction

Validation result: Peer Review with Core Mera Team

Target validated: Q4 2020

**Dashboard *should* be aesthetically pleasing.**

Min spec: NA

Max. spec: NA

Validation plan: Product Design Guideline

Validation result: Peer Review with Core Mera Team

Target validated: Q4 2020

**Dashboard *should* clearly show Mera brand.**

Min spec: NA

Max. spec: NA

Validation plan: Product Design Guideline

Validation result: Peer Review with Core Mera Team

Target validated: Q4 2020

**Dashboard *should* be minimalistic.**

Min spec: NA

Max. spec: NA

Validation plan: Product Design Guideline

Validation result: Peer Review with Core Mera Team

Target validated: Q4 2020