

Open Questions

How can we ensure the user's **privacy**?

How should the user interact with the Ambience Mirror, and what **level of interaction** can we provide?

What are **sensor shortcomings**, and how do we compensate for them?

Technology Analysis

Technology

Amazon Alexa integration provides a VUI without cameras or physical interaction

Touch interface provides interaction without microphones or cameras

Mirror is read only, relying on an app for its interface

Google Assistant integration provides a VUI without cameras or physical interaction

A gestural interface uses cameras and facial recognition to provide interaction

Use infrared camera plus voice recognition to identify users

Facial detection to identify users

A combination of a near-infrared camera plus a liquid crystal tunable filter measure hydration

An infrared camera measures flushness and skin irritation

A camera measures skin hydration and flushness

An external product measures skin hydration

In-mirror sensors measure temperature, air quality, and humidity

The Personal Intelligence Insights Engine collects data and provides insights to use

Drawbacks and Risks

- Microphone always listening
- Fingerprints reduce mirror visibility
- Requires the use of a phone
- Microphone always listening
- Privacy concerns
- Cameras pose serious privacy concerns
- Less accurate than traditional camera facial detection
- Cameras pose serious privacy concerns
- The user needs to be close to the mirror to take a measurement
- Measurements should not be taken after strenuous activity or after showering
- Cameras pose serious privacy concerns
- Not marketable as a stand-alone product
- Data will fluctuate, with bathroom use (primarily showers) creating anomalies
- Requires setup with an app
- Essential to the business model

Recommendation

Recommended

Not recommended

Not recommended

Not recommended

Not recommended

Recommended

Not recommended

Recommended

Recommended

Not recommended

Not recommended

Recommended

Recommended

Partnerships and Integrations

