Targets and Metrics

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Table 1 - Targets and Metrics

|  |  |  |
| --- | --- | --- |
| **Function** | **Target** | **Metric** |
| Alert of Elevation\* | 0.25 to 12 inches | Distance |
| Determine Location\* | Margin of error of at most 16 feet | Distance |
| Alert of Physical Object\* | 65 inches | Distance |
| Identify Possible Threats\* | Up to 60 miles per hour | Velocity |
| Access Emergency Contact | 15 seconds | Time |
| Interpret Sensory Information\* | 7 seconds | Time |
| Store Frequent Tasks | 1 GB | Memory Allocation |
| Interface with Pre-Existing Skills | 70% | User Satisfaction |
| Compete within Market | 20% | Price Range USD ($) |
| Remain Lightweight | <5.1 lb | Weight |
| Remain Discrete | 70% | User Approval |

*\*identifies critical targe\**

Summary

Of all the functions the team deemed important from the cross-reference table, five of them were designated to be critical including: alert of elevation, determine location, alert of a physical object, identify possible threats and interpret sensory information. The remaining functions are important to the device as they also indicate the physical and technical specifications that we expect our product to encompass. Each function was paired with one or multiple targets in which we assume will carry it out that specific function. Similarly, these targets each correspond with a metric to carry out how it is measured. The team will validate each of these targets and metrics, accordingly, following the procedures established in this section.

Appendix A

Table 1 - Targets and Metrics

|  |  |  |
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| **Function** | **Target** | **Metric** |
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Appendix B

Target Catalog

1. Access Emergency Contact\*
2. Alert of Elevation\*
3. Alert of Physical Object\*
4. Compete within Market
5. Determine Location\*
6. Identify Possible Threats
7. Interface with Pre-Existing Skills
8. Interpret Sensory Information\*
9. Remain Discrete
10. Remain Lightweight
11. Store Frequent Tasks

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