

Magic Leap One testplan

Test plan 1
Daan Kuhlmann

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Preface

The goal of this document is to explain the requirements and goals of testing the first Magic Leap One prototype made by Greenhouse Labs. The outcome of this test is needed to measure which way of input is best for interaction in Augmented Reality.

Testing Goals

There are several goals I wish to achieve by user testing the prototype:

1. **What are the first things a user does when putting on the Magic Leap?**
 - a. E.g. Is the user comfortable wearing the Magic Leap
2. **What ways of control are most intuitive for controlling a 3d object in Augmented Reality?**
3. **Are there any unexpected interactions with the prototype?**

Methods

Seeing how this user test consist of various testing goals, it's best to split the user test in multiple parts.

1. **Interview - Field**

The first part of the test will be done by filling in a questionnaire to answer general questions like age, profession and if it the first time wearing an AR wearable.

2. **Preparation – Lab**

For eye tracking to work, the Magic Leap needs to be calibrated. When unsure how to calibrate, test leader should ask developer for help.

3. **Usability & Think-Aloud testing - Lab**

The prototype consists of 2 levels. The first is a box that needs to be opened by various ways of interaction. The second is an object that can be controlled by multiple ways of interactions. The user should talk out loud the things that are being thought up.

4. **Interview - Field**

In this last part the users are asked about their opinion about the visual presentation and control of the app. This is being tested again with an interview.

Requirements

The following requirements are necessary for executing the test:

- Test person;
- Test leader;
- Magic Leap One;
- Prototype
- This test plan printed out;
- Pen;
- Video recording (test person needs to give consent)

Location

The user tests will be performed inside Labs on the first floor of the tower inside the Greenhouse building.

A table with white surface will be prepared to test the prototype on.

Participants

Participants of this test are people who work inside Greenhouse.

Test

Questionnaire 1

Question	Answer
Name	
Age	
Profession	
First time using Magic Leap?	
Knowledge of AR?	

User test 1 – Riddle Box

First the Magic Leap must be calibrated to the eyes of the user! Be sure to do this before testing this prototype.

At the beginning of test 1, the test leader only tells the test person that the box needs to get opened. How the user does this is part of the test.

Notes:



Test 2 – Object Manipulation

The second test is to find out what the most intuitive way is for controlling an object in a 3d environment. The object can be moved, rotated and scaled. This can be done in different ways. Find out what the most used type of controlling is used.

Ask test person:

1. Move the object
2. Turn the object
3. Scale the object

Notes:



Questionnaire 2 – General Thoughts

Question	Answer
What were you feeling when the first level (box) started up?	
Did you think it was clear enough how to manipulate objects in AR?	
Was there anything uncomfortable when going through the levels?	
Any thoughts about using AR in daily life?	