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User Manual

AVI Team Guatemala
ASSISTANCE FOR
VISION

Imagine **Cup**
Guatemala

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Version Control

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Rev. 0	12/04/16	Creation of the first AVI User Manual

USER'S MANUAL

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1.0 GENERAL INFORMATION

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1.1 System Overview

- AVI (Vision Assistant) is an application focused virtual assistant for people with impaired vision or blindness by OCR (Optical Character recognition) recognizes text in images and read aloud.
 - This for all 3 major platforms (Android, IOS and Windows Phone) making it accessible and practical solution as a universal application of Windows 10.
 - The interface is simple and practical designed to work with gestures and sounds.
 - Product Develop for the Imagine Cup from Microsoft
 - AVI. (Visual Assistant)
 - Native for Android, iOS, and Windows 10
 - Build it with Microsoft Research Labs Project Oxford
 - **System category:**
 - *Health*
 - **Operational status:**
 - Under development
 - **General description**
 - AVI is an application developed to work with people with visual impairments as an assistant to everyday tasks.
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1.2 Project References

Microsoft Research Labs - Project Oxford
Microsoft Imagine Cup

1.3 Authorized Use Permission

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1.4 Points of Contact

www.calaps.com/contact
AVI@CALAPS.COM | 1A CALLE 19 - 47, VISTA HERMOSA 2, ZONA 15, GUATEMALA

1.4.1 Information

www.imaginecup.com
www.calaps.com/avi
aviteam.azurewebsites.net

1.4.2 Coordination

This product was develop with the help and coordination of the AVI team and Microsoft Guatemala

1.4.3 Help Desk

www.calaps.com/AVI
Guatemala +502 57 57 57 39

1.5 Organization of the Manual

1 – How to use it
2 – How it works

1.6 Acronyms and Abbreviations

A.V.I, Visual Assistant
IC, Imagine Cup
MSFT, Microsoft

2.0 SYSTEM SUMMARY

2.0 SYSTEM SUMMARY

This section provides a general overview of the system written in non-technical terminology.

2.1 System Configuration

The system configuration can change application settings such as Language, Voice speed.

2.2 Data Flows

The interface is fairly simple to operate with taps and gestures that allow users with disabilities to access all functions intuitively without any problem.

2.3 User Access Levels

Only one level user, the final user.

3.0 GETTING STARTED

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Once you open the application opens an initial menu with 4 options, the first time you start AVI will read the instructions out loud. Each option starts giving a certain number of taps.

1 tap for OCR

2 Taps for microphone

3 taps for location

4 taps Configuration

3.1 Logging On

There is no need for logging.

3.2 System Menu

The left-menu only has some contact options as links to our social networks or to leave feedback

1 home

2 about us

3 rate AVI

4 settings

3.2.x [OCR Scanner]

to open the OCR scanner and read the text aloud only to do a tap (the key of a piano is heard) and AVI will open the device camera and make a second tap scans the image and AVI will read voice high or describe the image.

3.4 Exit System

Just tap the Home Button

4.0 USING THE SYSTEM

This section provides a detailed description of the batch system from initiation through exit, explaining in detail the characteristics of the required input and system-produced output.

4.0 USING THE SYSTEM (TAPS)

The system works with gestures and taps. each time you press the screen sounds of a piano key representing a tap.

5.x [OCR]

The system of optical character recognition works by pointing the camera at the area you want to scan and technology program with the Oxford Project translates the captured image to text.

5.x.y [LOCATION]

The system works well location simple for the location must be activated only three taps and send the location.

5.2 [VOICE RECOGNITION]

The voice recognition system function with the project program that sends oxford LUIS cloud the text string with the instructions and returns a response automatically.

5.3 [SETTINGS]

The system configuration can change application settings such as Language, Voice speed.