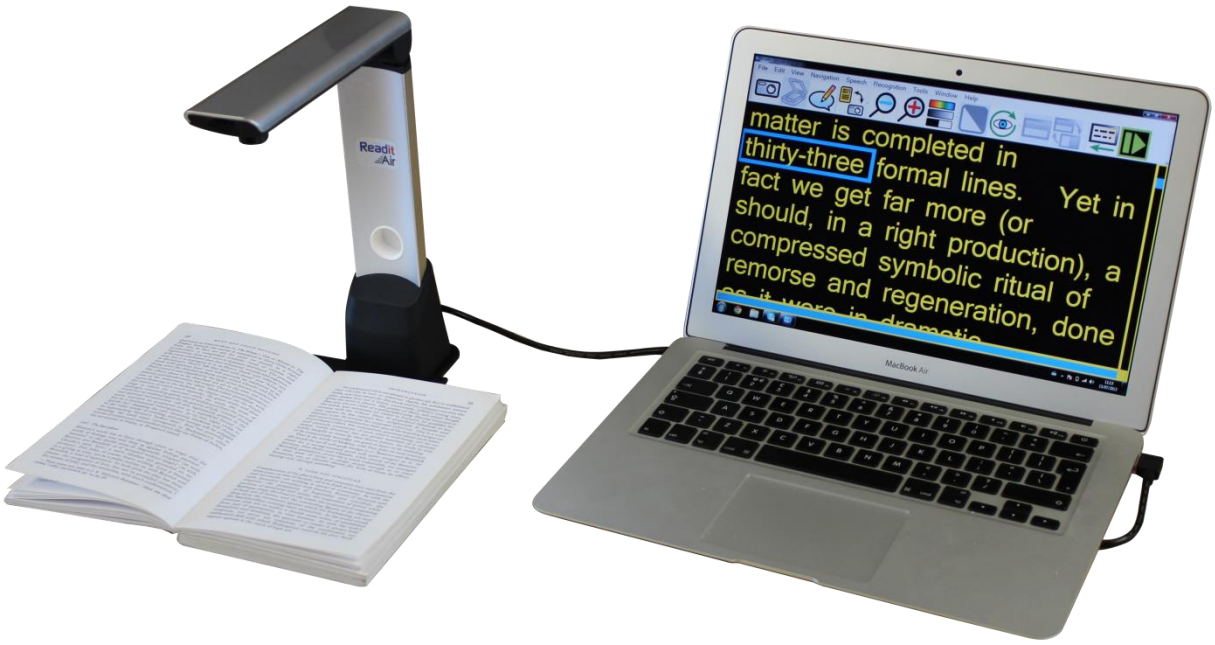
Readit Air

Hardware Guide Rev A
English



VisionAid International

Copyright (C) 2008-2016, VisionAid International Ltd, all rights reserved.

Table of Contents

Introduction 3
Readit Improvement program 3
Ownership and intellectual property 4
Box contents 4
Positioning Readit Air for use 5
Readit Air contrast/positioning mat 5
Unfolding Readit Air camera head and attaching the positioning guide 6
Folding Readit Air's camera head for transport 7
Plugging In 8
Positioning your documents for capture 9
Readit Air lighting adjustment 9
Headphones 10
FAQ and Troubleshooting 10
Maintenance 10
Cleaning 10
Appendix A: Safety 11
Appendix B: Technical Information 11

Introduction

Congratulations on choosing the Readit Air digital capture reading system.

The Readit Air combines high speed OCR, speech and reformatted text output with ease of use and portability. It can capture and read any printed material such as letters, bank statements, newspapers, food packaging etc. and weighs just 500 grams (1.1 lbs).

Readit Improvement program

Users are the best people to help us improve and develop our products so if you have any ideas or suggestions, no matter how small, please do contact us.

Suggestions contact information

Please use the following methods to contact us regarding your suggestions:

Email:

suggestions@visionaid.com

Post:

VisionAid International

VisionAid International Ltd.
Bridge Lodge, Spalding, Lincolnshire
PE11 3AU
United Kingdom

Phone:

+44 (0) 1775 711 977

Thank you and we wish you many hours of enjoyment with your new portable digital capture reading assistant!

Ownership and intellectual property

The software makes use of third party software libraries that are redistributed under their own respective licenses.

LAME is distributed under the terms of the GNU Lesser General Public License (LGPL), a copy of which can be found at http://www.gnu.org/licenses/lgpl.html and is included in the software's program directory.

OpenCV is distributed under the terms of the Berkeley Software Distribution (BSD) license, a copy of which is included in the software's program directory.

Copyright (C) 2000-2008, Intel Corporation, all rights reserved.

Copyright (C) 2009, Willow Garage Inc., all rights reserved.

Third party copyrights are property of their respective owners.

Box contents

Your Readit Air box should contain the following items:

1. Readit Air portable digital capture reading system.
2. Drawstring bag for Readit Air.
3. Attachable positioning guide.
4. USB cable.
5. USB extension cable.
6. Over ear headphones with in line volume control.
7. White contrast/positioning mat.
8. Laminated quick reference guide.
9. This hardware guide.
10. Paper software instruction manual.

If any of these items are missing, please contact your local distributor.

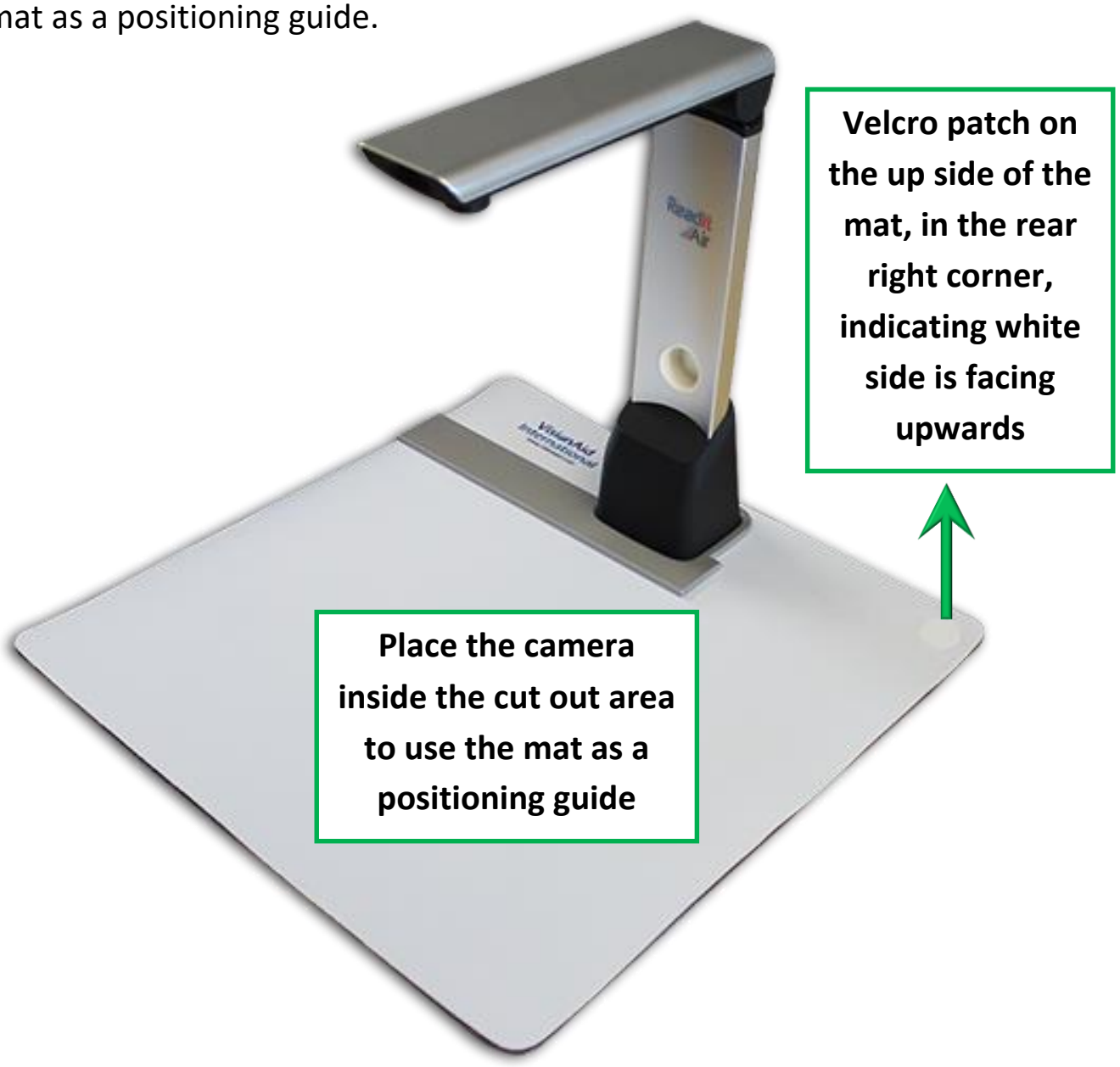
Positioning Readit Air for use

Remove Readit Air from its protective drawstring bag and place it on a flat surface. When doing so, try and ensure that it's not directly underneath any bright lighting, as this can affect its accuracy, especially when reading glossy documents.

Readit Air contrast/positioning mat

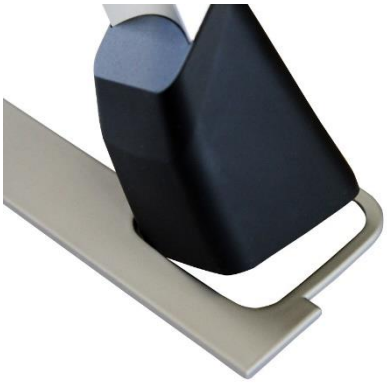
Readit Air also includes a contrast/positioning mat. This can be used if the surface where you wish to place the Readit Air is very dark and the item wishing to be read is small (e.g. a postage receipt, business card etc.).

The contrast mat can also be used as a positioning guide, there is a cut out area in which to position the camera. Place the camera within the cut out area to use the mat as a positioning guide.



Unfolding Readit Air camera head and attaching the positioning guide

Getting Readit Air ready for use takes just a few seconds and two easy steps



1. Lower the Readit Air camera into the cut out in the included positing guide. Ensure the long edge of the positioning guide points out to the left hand side of the camera and that it protrudes in front of it.

2. Unfold the camera head of the Readit Air camera by grasping the bottom of the camera head between your thumb and your index finger and lift it upwards until it stops.

Folding Readit Air's camera head for transport

To fold Readit Air for transport, simply do the exact opposite of the unfolding procedure before placing the Readit Air into its drawstring bag with the included right-angled USB cable.

IMPORTANT:

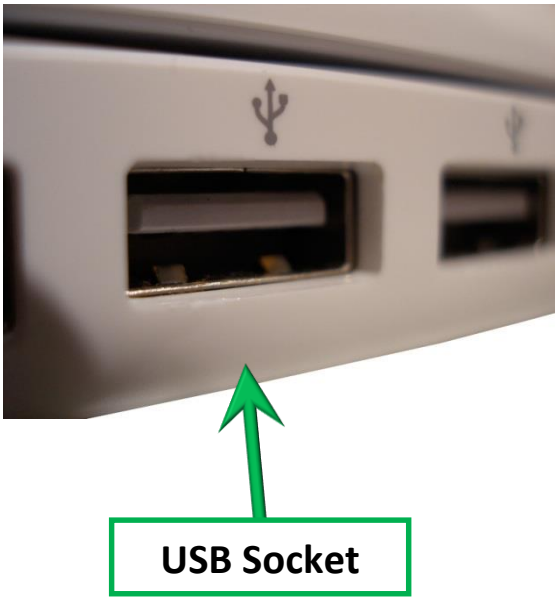
Always ensure that Readit Air's camera head is folded into its transport positions before placing it into its protective drawstring carry bag. This will help prevent any damage being done to the Readit Air during transport.

Plugging In

Readit Air has a relatively short attachable USB cable included. This is designed to be used in conjunction with laptops.

A USB extension lead is also provided for desktop PC use.

At the end of the USB cable is the USB connector that needs inserting into one of your computer's USB ports. The connector has a bump-on stuck onto it. This is to enable you to feel which way round the connector is when inserting it into a USB socket.



IMPORTANT:

Some computers have their USB ports fitted the other way up!

USB connectors will only plug into USB sockets one way round. They do not require much force, so take great care when inserting them into a socket. Forcing a USB connector into its socket the wrong way round will break the socket and or the connector. This is not covered by warranty.

Positioning your documents for capture

Readit Air captures an area slightly larger than an A4 or Letter page.

Documents must be in a landscape orientation with the long edge of the document going left to right when the Readit Air camera head is facing towards you.

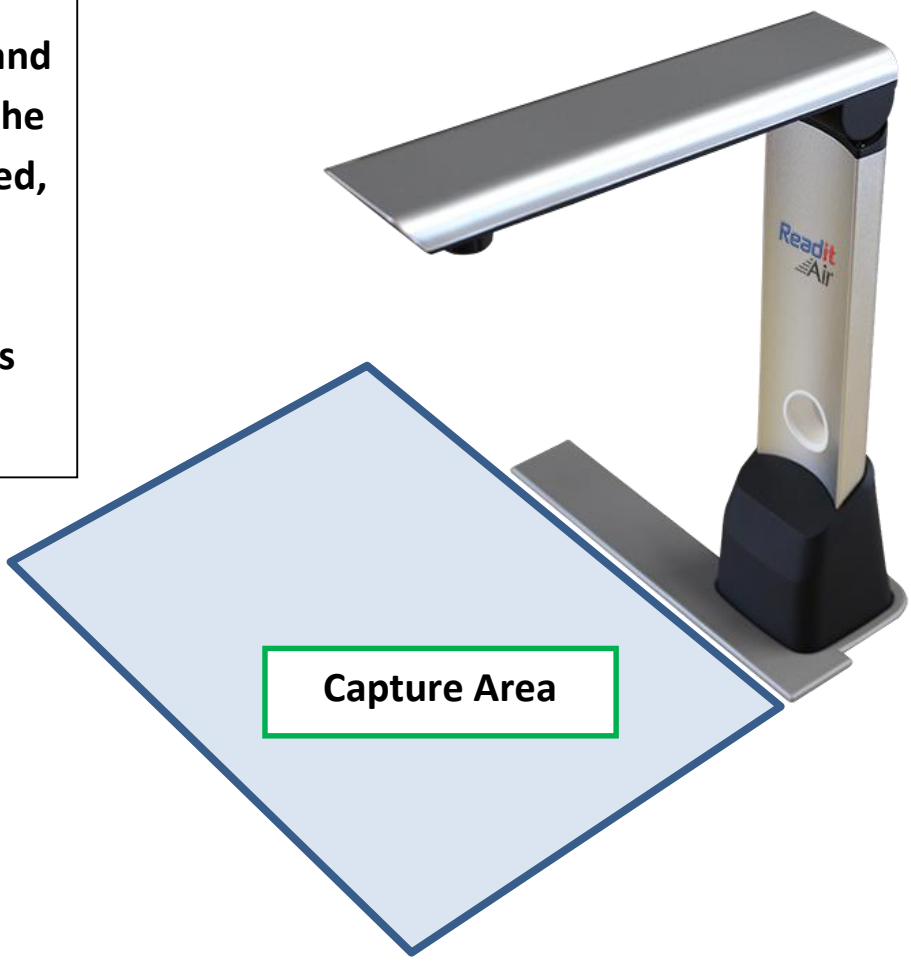
To align your document, simply place it up against the positioning guide so that one of the corners of the document is in line with the left edge of the positioning guide.

Readit's software will also give a visual indication on screen as to what is going to be captured.

The orientation of the document will not influence the recognition of the text but remember that to capture an entire A4 or letter page, the document must be in landscape orientation, otherwise the bottom of the document will be missed.

POSITIONING TIP:

Readit Air has powerful document straightening and rotation abilities but for the highest accuracy and speed, try to position your document as squarely as possible and ensure pages are relatively flat.



Headphones

Readit Air includes a pair of over ear in-line volume control. They have a audio jack connector.

To use the headphones, (or any ot already own), simply plug them int socket on your PC or laptop.

To alter the headphone volume, w recommend using the in-line volum wheel, located on the headphor.. wire. It is also possible to adjust the volume of the headphones using the volume control on your computer.

FAQ and troubleshooting

Q. I'm connecting the Air to my PC via USB but the Readit software is not recognising it.

A. Please try using a different USB port. Ensure as you connect the Air to your computer that you hear the Windows "Duh-dum" noise. Also ensure you have tried turning your computer off, (shutting it down completely), removing the camera, waiting 1 minute, then reconnecting it and turning your computer back on.

Maintenance

The Air camera is designed so that it requires no maintenance.

Cleaning

The Air requires no special cleaning treatment. It can be dusted when required.

The camera's lens is recessed within the camera head so it is very unlikely that it would ever become dirty. If it does, a lint free cotton bud can be used gently to remove any dust or smears from it.

Appendix A: Safety

- Handle the Readit Air with care. Rough handling may damage internal components and will void your warranty.
- Contact your VisionAid International distributor to service this equipment if necessary.
- Do not open or remove any parts of the Readit Air as it will void the warranty.
- Do not expose the Readit Air to excessive heat or direct sunlight.
- Do not use the Readit Air near inadequately shielded medical devices.
- To avoid risk of electrical damage, keep your Readit Air away from fluids and chemicals.

Use of the Readit Air other than described in this manual will exclude it from warranty.

Appendix B: Technical information

General information	
Dimensions folded: (WxDxH)	6.3 x 5.6 x 8.1 x 25 cm 2.5 x 2.2 x 9.8 inches
Dimensions unfolded with positioning guide: (WxDxH)	19.3 x 21.2 x 25.5 cm 7.6 x 8.3 x 10 inches
Footprint - no positioning guide (WxD)	6.3 x 5.6 cm 2.5 x 2.2 inches
Weight:	500 grams (1.1 lbs)
Camera resolution:	High resolution 5 MP

Operating conditions	
Relative Humidity:	<70%, no condensation
Temperature:	0 to 35 °C

Storage and transport conditions	
Relative humidity:	<95%, no condensation
Temperature:	5 to 45 °C