AIRBOX ACANS USER MANUAL V3.1

FOR BRISTOW UK SAR

By A.N. Nijsen

Copyright © 2021 By A.N. Nijsen All Rights Reserved

The manual or any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of the author except for the use of brief quotations in a book review.

TABLE OF CONTENTS

TABLE OF CONTENTS

RECORD OF AMENDMENTS				
1.	INTR	ODUCTION	9	
	1.1	HOW TO USE THIS GUIDE	9	
	1.2	BASIC UNDERSTANDING OF THE IPAD	.10	
2.	SETU	P	. 11	
	2.1	CONNECTING THE IPAD TO WIFI	.11	
	2.2	DOWNLOADING AND INSTALLING AIRBOX ACANS	.11	
	2.3	STARTING AIROX ACANS	.12	
		SERVER SETUP		
	2.5	OVERVIEW OF THE SCREEN LAYOUT	.13	
	2.6	DOWNLOADING AND INSTALLING UPDATES	.16	
		DELETING OUTDATED DATABASE DATA & ENABLING THE NEW ONES		
3.	THE I	N-FLIGHT MAP SCREEN	. 19	
	3.1	NORTH / TRACK UP	.19	
	3.2	PANNING & ZOOMING	.19	
	3.2.1	USING A TETHERED STYLUS	. 19	
	3.2.2			
	3.2.3	TWO FINGERS	.19	
	3.2.4			
		ZOOM & LOCK BUTTONS		
	3.4	NEW ICONS & OVERLAYS	.20	
	3.4.1	DIRECTIONAL WARNING INDICATOR		
	3.4.2			
	3.4.3			
	3.4.4			
	3.4.5			
	3.3.6			
	3.4.7			
4.		RENT MAPS & OVERLAYS		
		MANAGING AVAILABLE MAPS		
		LAYERS BUTTON		
		OVERLAYS		
	4.3.1			
	4.3.2			
	4.3.3			
	4.3.4			
	4.3.5			
	4.3.6	AIRPORT PLATES	. 28	
5.		TES		
		CREATING A BASIC ROUTE USING THE ROUTE TAB		
		ADDING WAYPOINTS USING THE MAP SCREEN		
		USING THE SAR TAB		
		USING THE AIRFIELDS TAB		
		ADDING WAYPOINTS BASED ON COORDINATES		
		ROUTE COLOURS		
	5.5	DELETING WAYPOINTS	.35	

1. Introduction

This Airbox ACANS User Manual is written to provide you, the user, with more information about the setup and operation of the software within UK SAR. This document is primarily newly written material, as well as using some information extracted from the Airbox ACANS User Guide, the QID 326, and general iPad use. The manual assumes the user has a general understanding of how to use an Apple iPad.

A brief overview of what you can find in this manual:

Chapter 1	Introduces this manual, how to use it, and provides brief
"Introduction"	description of all chapters in this table
Chapter 2	Explains how to install the software, how to set it up for
-	
"Setup"	(first) use, gives an overview of the screen layout, and
	explains how to download/delete updates.
Chapter 3	Explains how to pan and zoom, as well as new overlays
"The in-flight map screen"	displayed on your screen relating to in-flight situations
Chapter 4	Explains the different maps, company databases, and
"Different maps and overlays"	overlays that can be displayed on your map screen
Chapter 5	Explains the various ways of creating a route, adding
"Routes"	waypoints and how they are displayed on your screen
Chapter 6	Explains how to use the search bar, SAR tab, Airfield tab,
"Finding your destination"	and how to find a location with coordinates or grid-
	references
Chapter 7	Explains how to create and read a route briefing, what
"Route briefing"	information is provided and how to use auto/manual
	weather functions
Chapter 8	Explains the tracking ability and advanced techniques,
"Tracking & advanced planning"	as well as looking at opening and sharing journey logs,
	and connecting with the PC version
Chapter 9	Ends the manual with a note for feedback and contact
"Final Note"	details for the author and Bristow UK SAR IT dept.
Annex A	An overview of the standard application setup.

1.1 HOW TO USE THIS GUIDE

For this guide to flow in a logic and easy-to-follow order, a route has been created that covers all items that are considered necessary for safe operation of the Airbox ACANS software.

Initially, the manual will begin by getting you to set up the software according to the standard settings found in Annex A, before going into explaining all the icons that appear on the screen during various phases of planning and flight. It will then take you through creating a route step-by-step, followed by finding new destinations while enroute using all available options. Lastly, it will explain the extra options the application offers for advanced planning and SA enhancement.

3. THE IN-FLIGHT MAP SCREEN

On page 14, the manual provided you with the overview of the map when you first start the application. In this chapter, it will take you a step further and have a look at all some of these items in depth, as well as additional ones that can appear on your screen while flying.

Items relating to routes are not covered in this chapter, as they will be explained in chapter 5.

Let's begin by explaining how you can move around on the map, as there are multiple ways of doing this.

3.1 NORTH / TRACK UP

The map can be configured to display in either 'Track Up' mode or 'North Up' mode. If you have 'Track Up' selected in the settings menu, a compass icon will appear in the top-left corner of your screen. Whenever the aircraft moves, it will be pointing upwards, and you'll notice the compass rotating as you go. By tapping the compass, the map will be orientated 'North Up'. While in 'Track



Up' mode, you can rotate the map with your fingers as explained below. Be aware that as soon as you "lock onto" your aircraft (see chapter 3.3), the map will automatically revert to 'Track Up' mode.

In 'North Up' mode, the map will be fixed, and the aircraft will move in any direction as you fly. You'll notice that the compass is not displaying at the top-left corner and rotating the screen with the use of your fingers is not possible.

3.2 PANNING & ZOOMING

Airbox ACANS provides the user with multiple ways of manipulating the screen.

3.2.1 USING A TETHERED STYLUS

You can pan around the map using a tethered stylus (iPad pen) by simply pressing the tip on the screen and dragging in the required direction. You can zoom in or out by pressing the zoom + or – buttons, which can be found in the bottom-right corner (see next page, they need to be enabled via the settings menu if these do not appear).

The stylus can be used to select any point or button within Airbox ACANS and is especially useful whilst wearing flying gloves.

3.2.2 ONE FINGER

You can pan around the map, select buttons, and type when using the application without flying gloves (the app does respond to input with gloves when pressed positively).

3.2.3 TWO FINGERS

Placing two fingers on the map and holding them there produces a virtual ruler (see chapter 8.2.8 'Visual Measuring Tool'). The ruler displays distance, time between two points and an estimated fuel burn.

7. ROUTE BRIEFING

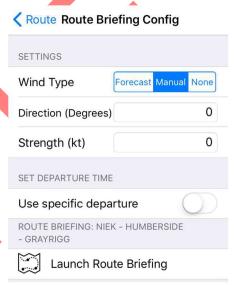
Whenever you create a route within Airbox ACANS, the software will automatically create a route briefing for you. The route briefing can be accessed through the 'Route Briefing' tab, or via the 'Route' icon in the top-bar and selecting 'Route Briefing' Launch Route Briefing' (note the latter will bring up a new page instead of the 'Route Briefing' tab..

The brief includes useful information related to your route, such as aircraft data, route legs (including distance, time, speed, and fuel burn), frequencies, and airspaces. Each of those items will be discussed in further detail within this chapter.

7.1 ENTERING WIND INFORMATION

For the route briefing to present you with accurate data, it is important that you understand what inputs are being used. Airbox ACANS allows for three different types of wind input, which are 'Forecast', 'Manual', and 'None'. To access and change these settings, open the 'SAR' tab or the 'Route' icon > 'Route Briefing'. At the top of either menu, you can select which type of wind-input you'd like to use. Depending on your selection, more options will become available.

When you select 'Forecast', Airbox ACANS will use the most recent downloaded weather data available. It is important to realise that outdated weather data may have a significant effect on your in-flight planning and subsequent briefing page. By selecting 'Manual', two additional input boxes appear, which allow you to enter



the direction and strength of the wind. This option is especially useful when in-flight planning. If 'None' is selected, no wind data is used and Airbox ACANS will assume "zero-wind" conditions.

If you are planning to fly the route at a later date, you can adjust the displayed information by changing the departure time. This can be done via the 'Route' icon > 'Route Briefing' option. Enable the 'Use specific departure' by tapping the slider (it will turn green) and adjust the information presented in the additionally displayed menu.

7.2 ROUTE BRIEFING IN DETAIL

With the information above in place, the next step is to load the route briefing. As mentioned in the introduction, this can be done in two ways.

The first way is by opening the 'Route' icon at the top of the screen and selecting 'Route Briefing'. At the bottom of this sub-menu, we can see the option 'Launch Route Briefing'. When you select this option, a new page will be loaded with the full briefing.

The second way is by tapping the 'Route Briefing' tab on the left-side of your screen. This will display the brief while remaining on your main screen and allows for quick access to the map if required. Using this option is particularly useful when used as a reference in-flight.