New Features on the Smart Aligner App

NOTE: It is assumed that the user is already familiar with how the Smart Aligner System (Smart Aligner Tool, Universal Mounting Bracket and App) operates and mounts to standard antennas. If not please follow instructions for operation of the Smart Aligner System by watching our videos and reading the User Guide and other information at:
http://www.multiwavesensors.com/antenna-alignment/

Several new features have been added to the Smart Aligner App based on customer feedback and suggestions. Please install the newest version of the App. The new features are:

Date/Time Stamp on the Images in the Report
Manual Tilt and Roll Entry
Tone Align
Dish Target Calculator
Preview Report - NEW – Updated November 2016
Contractor Logo - NEW – Updated November 2016
Location to Google Maps (Android only) - NEW – Updated November 2016

Date/Time Stamp on the Images in the Report

Site Alignment Results

Site: Buckingham circle
Report Date: 2016-07-19 @ 14:54:12

Alignment Date: 29/08/2014 7:52:45
GPS Integrity: 88
Latitude: 38.020829 N
Longitude: 78.530300 W
Elevation: 811.32 ft
Contractor: hts

User Input
0’X0’X0’
3’d”
n/a
idf4-50a/4’
n/a

<table>
<thead>
<tr>
<th></th>
<th>MEASURED</th>
<th>TARGET</th>
<th>DIFFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azimuth (True)</td>
<td>3.9°</td>
<td>10°</td>
<td>6.1°</td>
</tr>
<tr>
<td>Tilt</td>
<td>▲ 0.2°</td>
<td>0.0°</td>
<td>0.2°</td>
</tr>
<tr>
<td>Roll</td>
<td>▼ 0.2°</td>
<td>0.0°</td>
<td>0.2°</td>
</tr>
</tbody>
</table>

Date/Time Stamp of when image was taken. Automatically appears on report. Format: 2016-07-19 14:53:35 EDT
Manual Tilt and Roll Entry (option is set in Settings)

In the event that the contractor is required to use a separate device to measure the Tilt and Roll the contractor can enter the value from that device into the App. This option must be set in the App Settings. The Tilt and Roll values from the Tool will be ignored.

There will be a note shown on the Report that these values have been entered manually.
Tone Align (option is set in Settings)

When Tone Align is set the mobile device will beep loudly and at a fast pace when you have aligned the antenna to the Target Azimuth. It will always beep but will increase in tone and frequency as you get closer to the Target Azimuth. It is best to get familiar with the sounds before using it at the site.

Tone Align
Toggle to green to activate
A Tone selector will be displayed on the Align Antenna screen.
Dish Target Calculator

The Dish Target Calculator will determine an Azimuth and Tilt required for two antennas that need to be pointed to each other. This calculator is not limited to Dishes but can be used for any antenna pair. The calculations take the earth curvature into account to determine a more accurate Tilt. Latitude and Longitude values can be entered directly from the Tool or manually. Since the locations and heights of each antenna are required to calculate an Azimuth for each antenna (the Azimuths will be 180 degrees apart for facing each other) installers at each location can text their own location (Latitude and Longitude) and Height to each other so that each one calculates the azimuth.

Step 1: Tap here to select the calculator

Step 2: If you are at your location (Origin) with the Tool and you are getting an Azimuth you can get the location directly from the Tool. Tap From Tool

Step 2a: You can also Tap this section and enter the information manually
Step 3:
Each installer can use **Text Location** to send the location information of their antenna to the other. Texting will be different for iOS and Android. **iOS shown**

Step 4:
Populate the Origin and Target location information

Select **Text Location**. Your messaging service will be activated with the following message and information. Text this information to the other installer. He can then COPY this information and then use **Paste From Clip**

Step 5:
**Tap Calc** to calculate the Azimuth and Tilt

Step 6:
You have now set the Azimuth and Tilt for your antenna

The Azimuth and Tilt information from the Calculator is copied directly to the **Antenna Details** screen
Preview PDF report

For iOS App Release 2.7.00 and for Android Release 2.6.10. This feature allows the user Preview the report in the App before emailing.

Step 1: Go to Settings and Select Preview

When you are ready to create and email the Report there will be a selection for “Preview All”

iOS screen: The user can view the Report before it is emailed. If there are multiple antennas in a report you can scroll up/down (iOS) or tap the up/down arrows (Android)

If Preview is not selected then it will proceed directly to email.
Contractor Logo

For iOS App Release 2.7.00 and for Android Release 2.6.10. This feature allows the user to have their Contractor Logo displayed in the report. The user is required to save an image to their mobile phone. Depending on the operating system, browser or email client there may be different ways that the image needs to be saved. For example, in iOS, if an image is associated with a link and Safari is being used to browse to the image then only the link will be saved and not the image. In this case it is best to use a desktop to save the image and then email it to your mobile phone.

Step 1:
Download your company logo to your mobile device. Supported formats are JPEG, BMP, PNG and GIF.

Step 2:
Go to Settings and Tap on Logo

Step 3:
Select the image by tapping on Set. For iOS you will be able to select from Moments, Camera Roll or Screenshots. For Android the saved image will be in the Download directory and the filename will be shown.
The selected Logo is displayed here and will appear in all the PDF reports created.

Step 4:
Tap here to enter Contact information which will appear below the Logo. You may need to use trial and error to get the Logo and Contact information scaled properly in the Report. You can use Preview to check.

Report Header showing the Logo and Contact Information of the Contractor. If Website is entered the Contact information will be hyperlinked to the website (feature not supported by Apple iOS).
Location to Google Maps (Android only)

For iOS App Release 2.7.00 and for Android Release 2.6.10. This feature adds a hyperlink, in the PDF report, to Google Maps for the location of the antenna.

Click on the link and you will be taken to the Google Maps/Earth page as seen below.