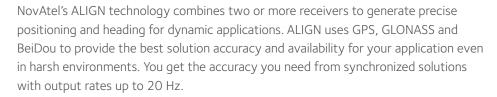
## Firmware ALIGN®



# HEADING AND RELATIVE POSITIONING SOLUTION



#### **ALIGN IS AVAILABLE IN TWO MODELS**

**ALIGN Heading** $^{\text{TM}}$ : Generates high precision heading and pitch angles between two receivers for real-time navigation.

#### **ALIGN Accuracy**

	0.5 m Baseline	1 m Baseline	2 m Baseline
DUAL FREQUENCY - FIXED HEADING ACCURACY	0.40 degrees	0.20 degrees	0.10 degrees

**ALIGN Relative Positioning** $^{\text{TM}}$ : Generates high accuracy heading, pitch, relative separation and positioning between two or more receivers for high precision monitoring and automation.

Plug-and-play functionality can quickly and easily create an ALIGN system that communicates through a wireless or cable link. You can also create a network of multiple ALIGN receivers that all have spatial awareness of each other.<sup>1</sup>

ALIGN is offered on NovAtel OEM6® receiver platforms.



#### **BENEFITS AND FEATURES**

- + Precise heading and pitch
- + Accurate relative positioning
- + GPS, GLONASS and BeiDou satellite availability
- + Easy to use plug and play installation
- + Easy creation of ALIGN network
- + SPAN® INS functionality

If you require more information about Firmware, visit www.novatel.com/products/firmware-options

## **ALIGN®**

#### **ALIGN USE CASES**

Heading Use Case: Fixed Antenna Distance between Master and Rover Receivers on One Platform

Figure 1

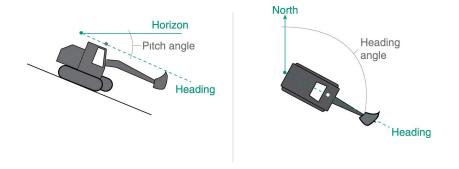


Figure 1 illustrates Master and Rover receivers located on the same vehicle and two antennas installed at a fixed distance from one another. Relative heading and pitch are computed with respect to the Master receiver.

### Relative Positioning Use Case: Master and Rover Receivers on Separate Moving Platforms

Figure 2

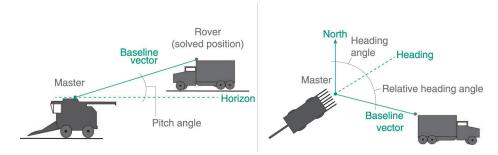


Figure 2 illustrates the Master receiver located on a combine harvester and the Rover receiver located on a truck. Relative heading, pitch, baseline length and Rover positions are computed with respect to the Master receiver.

For the most recent details of this product, visit www.novatel.com/products/firmware-options/align

#### novatel.com

sales@novatel.com

1-800-NOVATEL (U.S. and Canada) or 403-295-4900

China 0086-21-68882300

Europe 44-1993-848-736

SE Asia and Australia 61-400-883-601

**Version 9** Specifications subject to change without notice. ©2015 NovAtel Inc. All rights reserved.

NovAtel, OEM6 and ALIGN are registered trademarks of NovAtel Inc. ALIGN Heading and ALIGN Relative Positioning are trademarks of NovAtel Inc.

D13883 November 2015 Printed in Canada.



