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1.0 Introduction

This document outlines the step by step procedure in configuring ComNav T300 RTK System for real time kinematic (RTK) operations.

The RTK procedure is done via the controller that comes with the T300 RTK System. Corrections are sent using NTRIP (Networked Transport of RTCM via Internet Protocol) and Wi-Fi or GSM/GPRS connection as data link.

2.0 Real Time Kinematic Survey

The T300 receiver interface, including its button functionalities and LED indicators, are shown below:



Figure 1. T300 receiver control panel, LED indicators and function keys

1. Differential LED

As a Base Station: flashes once per second when transmit differential data

2. Satellite LED

Flashes N times every 5 seconds. Number of flash is equal to number of satellites locked by the receiver.

3. Bluetooth LED

> Flashes when controller is connected with the T300 receiver via Bluetooth.

4. Battery LED

> Indicates if T300 GNSS receiver is on or off. Status of LEDs are as follows:

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- 2 battery LEDs ON external power supply
- 1 battery LED ON internal power supply

5. Power button

- Turn ON press button for about 1 second, all LEDs light up simultaneously and remain lit for 3 seconds.
- > Turn OFF long press the button until all the LEDs are off.

The workflow for the RTK connection is as follows:



2.1 Enable internet connection

ComNav T300 GNSS Receiver can connect to the internet via WIFI or GSM/GPRS.

- To open Wireless Manager, go to Settings then to Wireless Manager



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- To connect via **Wi-Fi**, enable Wi-Fi. Enter the corresponding network authentication.
- To connect via **GSM/GPRS**, enable Phone.



- 2.2 Connect the controller to the T300 receiver Before proceeding, make sure that the T300 receiver and the controller's Bluetooth feature are turned on.
 - 2.2.1 Pair the controller with the T300 receiver via Bluetooth
 - From the Wireless Manager, click Menu then Bluetooth Settings



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In Device tab, click Add new device to search the Bluetooth device (ensure T300 is power on). Choose the right device according to the SN number and click Next.



- Enter passcode for secure connection. Click Advanced.

월 Settings	ହ+ Ÿx 4 €	🚰 Settings	%,→ Y_× 4 €
Enter Passcode	2	Enter Passcode	0
Enter a passcode to esta connection with COMNA	ablish a secure \V-T300-03101039.	Enter a passcode to esta connection with COMNA	ablish a secure NV-T300-03101039.
Press 'Next' to continue required.	if a passcode is not	Press 'Next' to continue required.	if a passcode is not
Passcode: ***	**	Passcode:	
123 1 2 3 4 5 6 Tab q w e r t CAP a s d f g Shift z x c v b Ctl áŭ ` \	7 8 9 0 - = ● y u i o p [] h j k l ; ' n m , 7 ←	Device Added Your Pocket PC has con T300-03101039.	nnected with COMNAV-
Back 💹	🛛 🔶 Next	Done	Advanced

- Choose Serial Port and click Save. Then go to COM Ports tab, and add New Outgoing port.

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Partnership Set	tings	?	Bluetooth
Display Name: Select services to	COMNAV-T	300-0310103 levice.	After pairing with a device, to set up a COM port tap New Outgoing Port. For other options tap and hold an existing port.
Serial Port			New Outgoing Port
123 1 2 3 4 Tab q w e r CAP a s d Shift z x c Ctl áū ` \	5678 tyui fghj vbnm	9 0 - = • • P [] k ; ' , . / • •	Devices Mode COM Ports
Cancel		Save	

- Choose the right device according to Serial Number and click **Next**, then choose a port number, do not check the Secure Connection, click **finish** and tap **ok**.

餐 Settings	%,+ Y_× 4 €	Settings	⊭: Y_x 4 €
Add a Device	2	Bluetooth	0
Select the device you want to	add	Port:	
COMNAV-T300-03101039		СОМ9	-
		Secure Connection	1
Cancel	Next	Back	Finish

- 2.3 Start Rover by CGSurvey
 - Run the CGSurvey Application

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- From the Main Menu, select config then choose Datum Manager.



- Select the Local Coordinate System (Create New, if there's no existing system)

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Follow below configuration

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💦 CGSurvey 🗧 🛱	€ ok	Se 😼	Survey	#	Y _× € ok
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Project height(m):		Scale fa	actor(ppm):		
0.000					
T 0.000	Home			70	.000 Home
Exit Open port failure	ОК	Exit Or	pen port failure		ОК

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Open port failure		ОК	Exit Open port failure	<i>©</i> К

- Create New Project and click ok

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Export >	T 0.000 H	lome				70.000	Home
Esc		ок	Esc	Open port	t failure		ଦ୍ୟୁନ
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- In main menu, click **Config** and then Work Mode

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- Connect the Bluetooth with the receiver



- If it is connected, Parameters will display below

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- Change Mode to "Rover" and Style to "PDA CORS"



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- Input Antenna Height then save

🚰 CGSurvey	% + Y _× € ok	Searces CGSurvey	% ≠ Y_× 4 € ok
Mode Rover 🔻	Style PDA CORS 🔻	Mode Rover	▼ Style PDA CORS ▼
Connect Param RT	6	Connect Param	RTK
Base Index:	Antenna Type:	Data Center:	122.55.96.59
	T300 👻	Port:	2101
Antenna Height:	Measure To:	Source List:	RTCM3 T Gain
1.800	Bottom of Receive -	Hear	
Elevation:	Use VRS	User.	a
0		Password:	*
Save Param	SHz Refresh Rate	Connect	Break
		Save	
0% 21 22	→ ↑ 1.800 Home	0% 21/2	2 📻 🕇 1.800 Home
BSC 3D H:0.692;V:1.290	RMS:0.470 Start	3D H:0.691;V	:1.285;RMS:0.470 Start
			(KIII)

Port: 2101 – single-base RTK 2102 – network-RTK



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