# Leica SurvCE Training







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### 1.0 Introduction

#### Objectives

In this exercise you will learn how to configure a 1200 Total Station and Leica SurvCE so that they may communicate via Bluetooth.

• At the end of the exercise you should be able to establish BT communication between Leica SurvCE and a 1200 Total Station.

#### **Getting Started**

For this exercise we need :

- TCRP1200 Total Station with BT
- RX1250 with Leica SurvCE

## 2.0 Configuring the Total Station

Objective

We need to configure the Total Station.

Getting started Power on the instrument.





– T	12:13 PS1200	-+1	FAST	Ι	*	°. ∠ ¤ ⊘	- <mark></mark>
C	onfigura	ation:	TCRP	RCS	RH1	200	×
1	Survey	Setti	ngs				
2	Instrum	nent Se	etting	js			
3	General	l Sett	ings.				
4	Interfa	ices					
5	SmartSt	tation					

аû CONT 12:11 ∦ IR 鉛 CONFIGURE FAST ً₿ X Interfaces Interface Port Device GSI Output -GeoCOM Mode RCS Mode Export Job GPS RTK Internet аû CONT EDIT USE 12:12 \* ٩. 🛨 IR 2 • Ι **-**FAST 83 ً CONFIGURE 0 GeoCOM Mode × Use Interface: Yes 🔶 Port Port 3(BT) Device <Port 3> : Protoco1 : RS232 GeoCOM

From the Interfaces screen select **GeoCOM Mode** and **F3** for **Edit**.

From the Configuration screen

select Interfaces

From the GeoCOM Mode screen verify that Use Interface is set to **Yes**. Change the Port setting to **Port 3 (BT)**. Press **F5** for **DEVCE**.





Leica SurvCE Training Notes

12:15 CONFIGURE Devices (BT) Radios Modems/ Name <port 3=""> RS232 RS232 GSI RS232 GeoCOM</port>	- 🛣 🖪 FAST I	* Second	On the Devices screen select <port 3=""> from the Others tab. Press F3 for EDIT.</port>
CONT NEW 12:16 CONFIGURE Edit Device: Name Type Baud Rate Parity Data Bits Star Bits	EDIT DEL	a û MORE PAGE <sup>*</sup> 2 2 2 <sup>*</sup> 2 2 2 <sup>*</sup> 2 2 2 <sup>*</sup> 2 2	Verify that you have the following configuration • 115200 Baud Rate • None Parity • 8 Data Bits • 1 Stop Bits Press F1>F1>F1>F1 to return to the Main Menu. The 1200 is new configured to
Stop Bit Flow Control	:	1 小 None 小 DEFLT	SurvCE.

# 3.0 Configuring Leica SurvCE

Objective

We need to configure the Total Station.

Getting started Power on the instrument.



Configuring Leica SurvCE for communication with the 1200

😂 JOB:LE	ICA 1			È (	🋃 😧
<u>F</u> ile	Equip	<u>S</u> ur	vey	<u>c</u> ogo	Road
1 Total St	ation		<u>6</u> Lo	calization	
2 GPS Bas	3	ZCh	eck Level	•	
<u>3</u> GP5 Rover		7	<u>8</u> To	lerances	P
<u>4</u> GP5 Utilities		Ŵ	<u>9</u> Pe	ripherals	ti i
<u>5</u> Configu	re	℀	<u>0</u> Ab	out SurvCl	:

From the EQUIP tab press 1 or tap the Total Station button on the RX1200 screen.

😂 Instrument Setup 🛛 🔽 🔀							
Current Comms Settings Search							
Manufacturer:	Manufacturer: Leica TPS Series (Direct) 💌 🔟						
Model:	Model: TPS 1200						
Load	<u>S</u> ave <u>R</u> ename <u>D</u> elete						

On the Current tab of the Instrument Setup screen verify the following settings.

- Leica TPS Series • (Direct) Manufacturer
- TS1200 Model •

📚 Instrument Setup 🛛 🔽 🔀						
Current	Comms Settings	5 Search				
Туре:	Bluetooth	•				
Device:	Microsoft	Configure				
Instrumer	nt	•				

On the **Comms** tab of the Instrument Setup screen verify the following settings.

- Bluetooth Type Microsoft Device •
- •
- COM2 Port •

Tap Configure



Nueteeth Devices	Tap Find Receiver
Select Boseiver	
Receiver Name Receiver ID	
<ul> <li>↓</li> </ul>	
Eind Receiver Delete Receiver	
Set Receiver PIN Set Receiver Name	
	Tap <b>Scan Device</b>
Bluetooth Manager Y UK X	
Scan Device	
[Untrusted Trusted]	
> <u>S</u> can Device <	
Authentication Request X	When the Authentication
0012f30431fd	request dialog box appears:
rusted	Enter <b>0000</b>
Enter PIN: 0000	
	Тар <b>ОК</b>
> <u>S</u> can Device <	



Bluetooth Manager       ? 0K ×         Scan Device	Select the 🖨 icon Tap the> button
Bluetooth Manager Scan Device Bluetooth Manager Do you need to authenticate the device? Yes No Cancel > Scan Device <	Тар <b>No</b>
Bluetooth Manager       ? 0K ×         Scan Device	From the <b>Trusted</b> side of the screen double tap the





Your instrument should now



appear as an available Receiver





😂 Blu	etooth Devices		8	X				
Select Receiver								
Recei	ver Name		Receiver	ID				
<tcr< td=""><td>P120X R300 #2271</td><td>32&gt;</td><td><tcrp12< td=""><th>20X R3</th></tcrp12<></td></tcr<>	P120X R300 #2271	32>	<tcrp12< td=""><th>20X R3</th></tcrp12<>	20X R3				
	Bonding with Bluetooth							
Eind Receiver Delete Receiver								
Se	t Receiver <u>P</u> IN	Set R	leceiver <u>N</u> a	ame				

This screen will briefly appear and the instrument should beep once.

😂 Instru	ment Se	tup		$\checkmark$	X
Current	Comms	Settings	Search		
Type:	Bluetoc	)th	<b>•</b>		
Device:	Microso	oft	▼	Confi	gure
Instrumer	nt <tcrp< td=""><th>120X R300</th><td>#22; 🔻</td><td></td><td></td></tcrp<>	120X R300	#22; 🔻		

When this screen appears we can continue configuring the instrument.

Defining the linear measurement settings



On the **Settings** tab of the **Instrument Setup** screen verify the following settings as appropriate for your job.

- EDM Mode
- Target Offset
- BS Target Offset
- Guidelights
- Laser Pointer







