

MSP RAPID On-Board[™] USER GUIDE

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Table of Contents

1.0	Installing MSP RAPID TM On-Board	2
1.1	Installing RAPID On-Board to Total Station	2
2.0	Operational Procedure	2
2.1	Enabling Rapid On-Board	2
2.2	Create / Load Project	3
2.3	Setting Project Parameters	4
2.	2.3.1 Station Tab:	4
2.	2.3.2 Units Tab:	5
2.	2.3.3 Coordinates Tab:	6
2.	2.3.4 Prism constants Tab:	6
2.	2.3.5 Configure Reading Tab:	6
2.	2.3.6 Monitoring Cycle Options:	7
3.0	Training Points / Importing Coordinates	8
3.	8.1 Manual Training of Points:	9
3.	3.2 Rapid 2D	
3.	3.3 Other functions:	
3.3.1	.1 Monitoring of Prisms	
3.3.2	.2 ReOrientation	
3.3.3	.3 ReSection	
3.3.3	.3.1 Resection from Training	
3.3.3	.3.2 Manual Resection	
3.3.4	.4 Downloading Monitoring Data	
3.3.5	.5 View Difference	
3.3.6	.6 Data Reduction	
4.0	Licensing	



1.0 Installing MSP RAPID[™] On-Board

1.1 Installing RAPID On-Board to Total Station

To Install RAPID On-Board, save first the Installer package into a Flash drive or to a CF Card. Once plugged in into the USB port/CF card port of the Total Station, Press and Hold F2-F4-9 plus Power ON button. Wait for the Installation window to appear:

Product:	RAPID On-Board	
Version:	1.07	
Delata	Tata	

Press the **Install** Button to begin Installation or **Uninstall**, to remove RAPID On-Board application from the Total Station.

2.0 Operational Procedure

2.1 Enabling Rapid On-Board

To Run the RAPID On-Board Application press the PROGRAM button on the Total Station; Click on the **MSP RAPID[™] On-Board** button on the screen to launch the program.



First thing to do when operating the RAPID On-Board is to enable the program. By clicking the **Enable** Button, RAPID On-Board will initialize the Total station into monitoring mode.



2.2 Create / Load Project

A Project must be selected or created when commencing monitoring of prisms. To create or load an existing Project, First press the Project Setting button on the RAPID On-Board main interface.

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RAPID On-	Board	×
Sele	ct Project	
د د		. 0.
D	Create New Project?	
		•
• Or	select existing?	_ <u></u>
т Г		•
	Load Delete Ca	ncel _1 📈
License	About	Close

For Creating New Project, Press the <u>Create New Project button</u>. If a Project is already existing, use the drop down menu for selecting the Project to be used then press the <u>LOAD</u> button.

<u>NOTE</u>: If the RAPID On-Board is on a Demo mode, Users can only create 1 Project and can only monitor up to 5 prisms.

2.3 Setting Project Parameters

Once a Project is created or loaded from an existing Project, Station Settings will automatically be displayed for users to verify the Project and Station settings.

2.3.1 Station Tab:

Project Name: This Field holds the name for the new Job. Enter a name with any combination of letters and numbers. The default Project name is, "**PROJ**".

Station Name: The Station number for the Project, One Project can be consisting of multiple Stations. The default station name is **STN1.**



Coordinate	s Prism Const	•	
RAPID			0."
STN1			•
			Ŀ
			уж. Эк
	Coordinate RAPID STN1	Coordinates Prism Const RAPID STN1	Coordinates Prism Const.

Users may load existing project settings by clicking the Load button on the screen.

2.3.2 Units Tab:

Temp and Pressure: May also change the temp and pressure; this depends on the site conditions. The default parameters are 30.0 degrees Celsius for Temperature and 1013.0 for Pressure.

Station Sett	ings	: RAPID - STN1		×
Station Unit	s C	oordinates Prism Const	- F	
Temp (°C)		30.0		0 ."
Pressure (hP	Þa)	1013.0		
Angle Unit		Gon	▼	
Distance		Meters	-	
Standard		International	-	_1
				7
Load			C	ж

Temperature (°C): Default value 30.0 Pressure (hPa): Default value 1013.0 Angle Unit: Gon / Degrees,Min,Sec Distance: Meters / Feet / Inches Standard: US / International



2.3.3 Coordinates Tab:

Station Setting	s : PROJ - STN1	×	:
Station Coordin	ates Prism Constants C	<u> </u>	ኦ
Easting (m)	30000.0000	- • •	D."
Northing (m)	30000.0000		
RL (m)	100.0000		2
Orientation	0.0000		
Inst. Height (m)0.0000		
		ОК	

2.3.4 Prism constants Tab:

Station Settings : F	ROJ - STN1	×
Station Coordinates	Prism Constants	
Monitoring (mm)	-30.0	— 0 ."
Connection (mm)	-7.0	•
Reference (mm)	-30.0	L*
Custom (mm)	0.0	1
		ОК

Monitoring Prism: Default value -30.0 Connection Prism: Default value -7.0 Reference Prism: Default value -30.0

2.3.5 Configure Reading Tab:



Station Set	ting	s : PROJ	- STN1			×
Prism Consta	nts	Configure	Reading		▲ ►	
Sequence		ead all poin	ts in F1, tł	nen i	•	0.
Repeats	З					•
Retries	5					<u></u>
Rounds	1					1
						7
					C	ж

Sequence: Set the Total Station on how it will monitor the prisms.

Option 1: Read all points in F1, then in F2 **Option 2:** Read all point in F1 and F2 **Option 3:** Read all point in F1 only

Repeats: Set the Total station on how many times it will read each prism

Retries: Set command to Total station on how many times it will retry to read a prism, if first reading attempt failed.

Rounds: Set on many times the Total Station will commence the Sequence.

2.3.6 Monitoring Cycle Options:

Station Setting	s : PROJ - STN1		×
Configure Readin	g Cycles	•	
Cycle Mode Ir	terval	-	0 .º
Interval (hrs) 4	Start Time 01:00	AM 🔻	
Cycle	Time		
Cycle 1	01:00 AM		یا_
Cycle 2	05:00 AM		
Cycle 3	09:00 AM		
Cycle 4	01:00 PM		_1
Cycle 5	05:00 PM	T	$\overline{\mathbf{P}}$
		c	ж

RAPID On-Board has a feature of Automatic Cycle Monitoring. User can set the number of monitoring cycles and the time of the monitoring.



Cycle Mode:

Continuous Mode: When cycles are set to Continuous, the Total Station will start to monitor the prisms continuously until the User will manually Stop the monitoring.

Interval Mode: By setting the Cycles to Interval, Users can adjust on how many cycles and the start time of each monitoring cycles.

Single Mode: On Single Mode, RAPID On-Board will do the monitoring only once.

Note: When doing Interval mode on RAPID On-Board, the Total Station must always be powered on. The RAPID On-Board will have a countdown and wait for the next monitoring cycle. A cycle countdown timer will be displayed on the Main Interface when the monitoring mode is on interval. The Total Station will automatically commence the monitoring once it reaches the monitoring cycle time.



3.0 Training Points / Importing Coordinates

In order to add prism point into the RAPID On-Board, Users may Manually Train Prisms, Load an existing Training file or Coordinate File, Or may use the RAPID 2D Scan function.



Training : R	APID - STN1		×
Pt. Name	Ha(gons)	Va(gons)	9 5
XYZ001 XYZ002 XYZ003 XYZ004 XYZ005	118.8798 156.2772 174.3902 241.7144 258.6877	2 74.23802 8 81.72940 8 88.16312 0 88.67544 4 84.93282	
•			⊥_ _1 ♥ ●
Import	Download	RAPID 2D	P1

3.1 Manual Training of Points:

At the Training Menu, Press the P1 Button to go the next page of commands.

Training : R	APID - STN1			×
Pt. Name	Ha(gons)	Va(gons)) 9	
XYZOO1	118.8798	32 74.23802	2 1	0°
XYZOO2	156.2772	8 81.72940	ך כ	• v.
XYZOO3	174.3902	26 88,16312	23	
XYZOO4	241.7144	i0 88.67544	4 3	
XYZOO5	258.6877	74 84.93282	2 2	
				یا_
•				\searrow
Add	Rename	Delete	F	2

Adding Point:



Training : PROJ - STN1							
Pt	Nomo		Ha(aone)	Volgone)			
	New Poi	nt N	ame				
	Please e	enter	new point na	ime.			
	XYZOO:	1					
	Prism Type: Monitoring Prism (-30.0) 💌						
	Reference Prism (-30.0)						
	Monitoring Prism (-30.0) Reflectorless (0.0)						
	Add	Re	Sheet Prism Custom Prism	(U.U) <u>1 "" (O.O)</u>	2		

When adding a prism point on the RAPID On-Board, Users must first point the Total Station to the Prism, then press on **Add** button.

Users can select which type of prism is to be added. In the Prism Type drop down menu there are 5 types of prism to select, with its designated prism constants.

Reference Prism (-30.0) Connection Prism (-7.0) Monitoring Prism (-30.0) Reflectorless (0.0) Sheet Prism (0.0) Custom Prism "" (0.0)

Once prism name and prism type is configured, RAPID On-Board will take the reading for the point and register it to the Training File along with its prism constant. Users are able to rename and delete points after training of points.

Importing a Training File or Coordinate File

To load an existing Coordinate File or a Training File, Press the **Import** button on the First page of the Training Menu commands. Users may use a Flash drive or a CF card for loading files.

3.2 Rapid 2D

This Function is specially designed for SOKKIA NET-AX Series and TOPCON MS-AX Series Total Stations. This feature enables users to scan prisms in an assumed coordinates and



save it into the training file. To use this Function on RAPID On-Board, Go to the Training Menu and press the RAPID 2D Button.

RAPID 2D Scan	×	RAPID 2D Scan	×
Start Point (Top-Left)	\mathbf{D}	Start Point (Top-Left)	
Ha:	0.	На: 209.4291	0 .
Va: Set		Va: 328.7497	
	•	,	•
End Point (Bottom-Right)		End Point (Bottom-Right)	يلك ا
Ha: Set		Ha: 249.2714	
Va:		Va: 308.3479	
	~		9
Start		Start	

Start Point: At the Start Point, Point the Total Station to the Assumed Top Left where the Total Station will start scanning. Press Set to get the Ha and Va.

End Pont: Point the Total Station to the Bottom Right of the assumed location of the prisms.

Note that when the area is "horizontally long", the Total Station will scan from Top left to the right, then move down a bit, then from right to left, then so forth and so on.

When the area is "vertically long", the Total Station will scan from Top left to bottom, then move right a bit, then from bottom to top, then so forth and so on.

Once the Scanning is complete, **"Collecting Data"** status will be displayed at the top of the screen. RAPID On-Board is now gathering all the recognized prism point.

RAPID 2D Scan [Collecting Data]	×	RAPID 2D Scan ×
Start Point (Top-Left)		St <u>ert Point (Ton-Left)</u>
На: 209.4291	0 .	Ha RapidOnBoard
Va: 328.7497	•	Va Scan Complete! Found 5 potential prisms. Proceed
End Point (Bottom-Right)	<u></u>	
Ha: 249.2714		Ha
Va: 308.3479	_1 ▼	Va: 308.3479
Start		Start

After Scanning and Collecting data is complete, a pop up window will appear. Verifying on how many points did the Total Station get from executing RAPID 2D.

Proceed to verify points:

Yes: RAPID On-Board will take reading on every point and register it to the Training File.



Training : Pl	ROJ - STN1		×
Pt. Name	Ha(gons)	Va(gons)	9 🔨
XYZOO1	46.79648	79.43774	² • •
XYZOO2	64.77128	86.67546	- 3 - ~
XYZOO4	9.42976	71.24932	1
			1
•			>
Retrain	Verify		РЗ

No: Gathered points will not be verified and will not be registered to the training file.

3.3 Other functions:

Retrain Point: Choose first the point to be retrained, and then press the retrain button. Make sure that the Total Station is pointing at the prism before pressing the Retrain button. By doing Retraining, RAPID On-Board will update the Training file.

Verify Point: Choose first the Point to be verified. By running the Verify command, the RAPID On-Board will verify the coordinates of the prism.

<u>Note</u>: Training Files can be downloaded from RAPID On-Board by pressing the Download button under the Training Menu. Training Files are in *.ini Format.

3.3.1 Monitoring of Prisms

To Start Monitoring of Prisms, Press the Monitor Button at the Main Menu. Then Press the Start Button to commence monitoring.

Monito	Monitoring : RAPID - STN1 ×					Monito	ring : RA	PID - STN	11		×
Cycle	Round	Date	Time	F		Cycle	Round	Date	Time		
	Rapio	IOnBoard) Start mo	onitoring now?		• •	1 1 1 1 1	1 1 1 1 1 1	06-03-201 06-03-201 06-03-201 06-03-201 06-03-201	17:27:29 12 17:27:43 12 17:27:55 12 17:28:19 12 17:28:34		• o."
↓ Star	t v	'iew Diff	Cycles	▶ ▶	_1 ₽	1 1 1 • •		iew Diff	Cycles	• •	1 ☑

Press YES to Start monitoring

3.3.2 ReOrientation

Reorientation of the Total Station is a process where the User sets back an instrument into a known point. Reorientation is done whenever the Total Station is replaced with another. The station position is still the same, but the instrument is replaced. Trained points are necessary for doing Reorientation.

Orientation	: PROJ - STN	11	×	Orientation : PROJ - STN1 ×
Pt. Name	Ha(gons)	Va(gons)	S 	Pt. Manage Luke/annah Luke/annah La
XYZOO1	112.8104	0 90.31301	¹ ¹ n n	XYZ RapidOnBoard
XYZOO2	149.2183	4 88.31195	5 1 ~ ~	XYZ \land Orientation correction = 348.02631
XYZOO3	170.4895	9 92.18907	7 1	
				Do you wish to update now to this
			1.0	value?
			1	Yes No
◀				
Reorient	Resection	Manual	Points	Reorient Resection Manual Points

To do Reorientation, Users have to manually point the Total Station to a known point. Then on the RAPID On-Board Screen choose the point to which the Total Station is pointing to. Click on **Reorient** button. RAPID On-Board will verify that the Total Station is pointing to the specific prism. Once the instrument is done reading the prism, it will ask a confirmation like above.

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3.3.3 ReSection

Resection is done when the Total Station is placed in a different position from the initial position. In doing resection, two or more known points are required to do Resection.

3.3.3.1 Resection from Training

To do Resection from training points, first Point the total Station to the first known point. Click the Resection. Do the same step for the next number of prisms.



3.3.3.2 Manual Resection

To do manual resection, first Point the total Station to a known point. Click the Manual. A dialog box appears; key-in a name, the coordinates, and the target height. And click OK. Do the same step for the next number of prisms.

Ori	entation	: PROJ - STN	11	×	Orie	MSP RA	\PID™ On-Bo	ard	\times	×
Pt.	Manual I	Resection	•	×	Pt.		STATION COC	RDINATE:		
	XY2 XY2 Enter coordinates and target height. Point XY2 instrument to prism, and click OK. Pt.Name CTRLPT Easting 30000.5337 RL 98.1547			Point	REF XYZ SHT RFLI	<u> </u>	Easting: 29999 Northing: 2999 Reduced level: Orientation: 24 Do you wish to	9.9890 m 99.9592 m 100.0002 m 18.95227 gon o update now	to this	
R	eorient	OK Resection	Cancel	Points	Rea	prient	Yes Yes Resection	<u>N</u> o Manual	Point	is is



To review the resection points before accepting the result, just click No when the above question is asked "... Do you wish to update now to these values?" Then click on Points to see all the resection points taken.

Resection : F	RAPID -	STN1 [Count =	3]		×
Pt. Name	Eastir	ng(m)	Northing	;(m)	R 🔼	
REFOO1 XYZOO3 SHTOO4	2999 2999 2999	4.8668 4.7319 9.1090	29994.9 29995.1 29999.0	062 776 569		0.
4			_	•) ا) [
STN-E 2999 STN-N 2999	9 .9917 9.9563	STN-RL Orient	100.000 248.916	12	5	,1
Tolerance	Remov	e	Reset	A	ccep	t

The resection points list show all resection points with their coordinates. The calculated station coordinates and orientation are also shown. The following functions can be done on this screen.

Tolerance: To go to the Tolerance screen.

Remove: To remove a resection point from the list.

Reset: To clear the resection points list.

Accept: To accept the result of the resection.

The Tolerance screen shows a list of resection points being compared, and their tolerances. The "d[Distance]" column shows the difference in Horizontal Distance between true and arbitrary coordinates. The "d[Height Diff]" column shows the difference in Height Diff (dRL).

Tolerance						×
Points	d[Distar	nce](mm)	d[H	eight	\mathbb{N}	
REF001 - XYZ003 XYZ003 - SHT004	-0.1 -0.2		-0.3 0.3	}	8	0.
					ءَ» ا	,
•				F	- -	1
				Cle	ose	



3.3.4 Downloading Monitoring Data

Once the Monitoring cycle is complete, Users may download the monitoring data from the Total Station. First, Users should plug in a Flash drive or a CF card to the Total Station; this is where RAPID On-Board will save the data.

Save As: By Pressing the Save as Button, Users will be able to download the current or the last monitoring data done by RAPID On-Board

Download: By pressing the Download Button; Users will be able to download all monitoring data or just a specific monitoring data stored in the Total Station.

Download Data Files		×
Download All Data Files		
🔿 Download Specific File		0 ,
File:		
Output Folder:		<u>_ل</u>
]	
		_1
		7
Start DL		

Users are required to choose the Output Folder; this is where the data will be downloaded to.

<u>Note</u>: By choosing Download all Data Files; RAPID On-Board will give an option to the users whether to delete files from the Total Station after Download. This is suggested to free up the Storage space of the Total Station.





3.3.5 View Difference

After a monitoring cycle is finished, Users can view the Difference between the Training File and the last Monitoring Cycle.

Monitoring :	RAPID - ST	rn1			×
Point Name	dE (mm)	dN (mm)	dRL		
REF001	0.00	0.00	0.10		ം പ
REFOO1	0.10	0.00	0.10		• 0.
REFOO1	0.00	0.00	0.10		
XYZOO2	0.10	0.00	0.00		
XYZOO2	0.20	-0.10	0.10		
XYZOO2	0.10	0.00	0.00		یا ا
REFOO1	0.10	0.40	0.40		
REFOO1	0.20	0.40	0.50		
REFOO1	0.20	0.30	0.50		1
VV7002	0.60	0.10	0.20	<u> </u>	
[▲]					🏸
Start	Readings	Cycles		I	P1

3.3.6 Data Reduction

After a monitoring cycle is finished, Users can generate a Data Reduction file, via the "Data Rdxn" button on Page 2 (P2) buttons of Monitoring screen. The data reduction file will be automatically saved to an external memory (e.g. USB thumb drive), so an external memory must be plugged-in.



A sample generated file is shown below.

X	Microsoft Ex	cel - STN1_Pl	ROJ3_02-Feb	o-2012_Cycle	e_1_DataF	Rdxn.xls							
	А	В	С	D	E	F	G	Н	- I	J	K	L	N
1													
2	Stn At :	STN1		Temp :	30		Instr No.:	101577					
3	Inst Hgt :	0		Pressure :	1013								
4	Date :	2/2/2012		Time :	14:40								
5	Remarks :												
6													
7			Horizontal				Vertical			Slope			
8	Station	Measured	Reduced	Mean	diff	Measured	Mean	diff	Distance	Mean	diff		
9													
10	XYZ001	65-50-45.4				81-00-24.9	09-00-07.7	0.8	1.1374	1.1374	0		
11	XYZ002	97-57-16.4	32-06-31.0	32-05-55.8	5	79-09-21.1	10-51-20.8	-2.2	1.1222	1.1222	0		
12	XYZ003	119-16-55.8	53-26-10.4	53-25-51.7	3.5	82-49-56.8	07-10-34.3	-0.9	1.2336	1.2335	-0.1		
13	XYZ003	299-15-39.2	53-25-33.0			277-11-05.4			1.2335				
14	XYZ002	277-55-26.7	32-05-20.5			280-52-02.7			1.1221				
15	XYZ001	245-50-06.2				279-00-40.2			1.1373				
16													
17	XYZ001	65-50-49.7				81-00-26.2	09-00-05.3	-1.6	1.1374	1.1374	0		
18	XYZ002	97-57-11.2	32-06-21.5	32-05-50.0	-0.8	79-09-23.5	10-51-20.3	-2.7	1.1222	1.1222	0		
19	XYZ003	119-16-52.1	53-26-02.4	53-25-46.5	-1.7	82-49-51.3	07-10-39.1	3.9	1.2336	1.2336	0		
20	XYZ003	299-15-38.9	53-25-30.5			277-11-09.5			1.2336				
21	XYZ002	277-55-26.9	32-05-18.5			280-52-04.1			1.1221				
22	XYZ001	245-50-08.4				279-00-36.8			1.1374				
23													
24	XYZ001	65-50-48.8				81-00-18.8	09-00-07.6	0.7	1.1374	1.1374	0		
25	XYZ002	97-57-09.3	32-06-20.5	32-05-49.3	-1.5	79-09-21.7	10-51-26.1	3.1	1.1223	1.1222	0		
26	XYZ003	119-16-51.6	53-26-02.8	53-25-44.8	-3.4	82-49-57.9	07-10-34.4	-0.8	1.2336	1.2336	0		
27	XYZ003	299-15-34.7	53-25-26.8			277-11-06.7			1.2336				
28	XYZ002	277-55-25.9	32-05-18.0			280-52-13.9			1.122				
29	XYZ001	245-50-07.9				279-00-33.9			1.1373				
30													
31	XYZ001	65-50-49.9				81-00-21.2	09-00-07.1	0.2	1.1374	1.1374	0		
32	XYZ002	97-57-06.4	32-06-16.5	32-05-48.2	-2.6	79-09-21.4	10-51-24.6	1.6	1.1223	1.1222	0		
33	XYZ003	119-16-52.6	53-26-02.7	53-25-49.7	1.5	82-49-49.0	07-10-33.0	-2.2	1.2336	1.2336	0		
34	XYZ003	299-15-44.4	53-25-36.6			277-10-54.9			1.2336				
35	XYZ002	277-55-27.7	32-05-19.9			280-52-10.6			1.1221				
36	XYZ001	245-50-07.8				279-00-35.3			1.1373				
37													
38													
39	XYZ001						09-00-06.9	0.5		1.1374	0		
40	XYZ002			32-05-50.8	1.5		10-51-23.0	1.2		1.1222	0		
41	XYZ003			53-25-48.2	1.3		07-10-35.2	1.2		1.2336	0		
42													
43	XYZ001				HD =	1.1234							
44	XYZ002				HD =	1.1021							
45	XYZ003				HD =	1.2239							
46													
47													
48													
M	< → H ST	N1 PROJ3	02-Feb-2	012 Cycle	1 🧖]/							
				or		-							

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4.0 Licensing

RAPID On-Board demo version is limited to 1 job and 5 prisms to train. The demo version has 30-days evaluation period. RAPID On-Board requires license file to fully maximize the software's feature.

М	SP RAPID™ Demo ×								
	Demo Version 🛛 🗙								
	This program is running on a demo version. It is limited to only 1 job and 5 prisms. Please contact your software provider to obtain your license.								
	Serial No.: 101577								
l	You have 30 day(s) remaining for evaluation.								
	If you have a license file, click on Import button below to browse for the file.								
	ImportOK								
	License About Close								

If already have a license file stored in a MSP RAPID[™] On-Board USB dongle, Plug in the MSP RAPID[™] On-Board USB Dongle to the Total Station. Then click on the Import button when the "Demo notification" pop up from the screen. Browse the license file (.msp) on the MSP RAPID[™] On-Board USB Dongle.

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