GeoMax

Zoom80

FAQ Sheet

V 1.50

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Table of Contents

1 What does "STReAM360" mean ?

STReAm360 stands for...
- Scout – finds your passive prism fully automatically
- TRack – continously follows your prism
- AiM – highest precision aiming atyour prism – any time, any condition
with constant accuracy

2 What is the range of the "SCOUT360" feature?

The range is about 300m.

3 What is the range of the "TRACK360" feature?

The range is about 800m to a round prism and 600m to a 360° prism.

4 What is the range of the "AIM360" feature?

The range is about 1000m to a round prism and 800m to a 360° prism.

5 What is the benefit of the Bluetooth handle compared to the previous radio handle?

The new controller used the Long Range Bluetooth technology which is in general license free (radio often requires governmental approval). IN addition the Bluetooth setup is very easy without any configuration. The controller itself is very powerful. It has an inbuilt camera, altimeter, WiFi and is Windows Mobile device, offering a high flexibility in regard to the software running on the handheld.

6 Can I use the new handle ZRT81 with any Zoom80 instrument which was before equipped with a ZRT80 radio handle?

Every Zoom80 instrument can be used but "Xsite V1.7" (or higher) has to run on the instrument because this version supports the long range Bluetooth handle ZTR81.

7 What is the range of the "Long Range Bluetooth" Handles (ZRT81/82)?

The range you can achieve in open field conditions without obstacles between the instrument and the controller is about 500m.

8 What is the difference between the ZRT81 and ZRT82 "Long Range Bluetooth" handle?

From 1/1/2015 onwards there is a new law for Bluetooth modules regulating the emitting power. The ZRT82 "Long Range Bluetooth" complies with the EN300328 standard. There is no significant difference in the range compared to the ZRT81.

9 Can I use the new handle ZRT82with any Zoom80 instrument which was before equipped with a ZRT81 or ZRT80 radio handle?

Every Zoom80 instrument can be used but "Xsite V2.0" (or higher) has to run on the instrument because this version supports the long range Bluetooth handle ZTR82.

10 How is the PIN assignment of the Lemo connector?
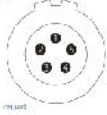
Pin	Signal Name	Function	Direction
1	PWR	Power input, + 12 V nominal (11 V - 16 V)	In
2	-	Not used	-
3	GND	Single ground	-
4	RxD	RS232, receive data	In
5	TxD	RS232, transmit data	Out

Sockets Port 1: LEMO-0, 5 pin, LEMO ENA.OB.305.CLN

11 "Quadruple axis compensation": What does it mean?

Quadruple axis compensation means two axis compensation combined with Hz collimation and V index correction. Please be aware that it is not a quadruple-axis/4-axis compensator – it is compensation.

12 Which software is running onboard the Total Station ?

The software is called "Xsite"

13 Which applications are featured by the onboard software ?

Standard applications (included): Setup, Survey, StakeOut, CoGo routines, DXF im/export
Optional applications: Area division, Volumes, reference Line, Hidden Point, Sets of Angles, Face Scan, Traverse, Traverse Adjustment, Monitoring, Road

14 Does "XSite Software" run on Getac dataloggers?

No, as XSite software is specially developed to run on the WinCE 5.0 platform, which is not compatible to Windows Mobile, running on the Getac dataloggers

15 Does "XSite Software" run on WinCE5 dataloggers?

Theoretically yes, however most probably not all functions are supported, as the Xsite software was specifically developed to run on the Zoom80C Controllers and it characteristics hardware, like keys.

16 Is it possible to run FieldGenius/XPAD onboard the TS?

No, Zoom80 does not run the WinCE operating system – therefore it is not possible to install 3rd party software on it.

17 How is the handling if I order optional applications?

There are two possible cases:
a) If you order the optional applications together with the instrument: The license key will be uploaded during the customizing of the instrument. The dealer/customer must upload the application file via CF card in his preferred language to the instrument. The application file is available in the login-protected part Geomax Download page.
b) If you order the optional applications independent from the instrument – means after the initial purchase of the instrument. Atre the order you will receive an email containing the license key file. The dealer/customer must upload the licnese key file and the application file via CF card in his preferred

language to the instrument. The application file is available in the login-protected part Geomax Download page.

18 Does the Zoom80 support a Demo License ?

No, there is no Demo License enabling all applications. The firmware allows the use of optional applications for 180 days – when this period is over, the customer has to purchase the application license in order to further use it.

19 How to prevent getting corrupt data on CF card?

In order to prevent corrupt measurement data that cannot be imported into GGO it is recommended to format the CF card on a regular base. In addition it is recommended not to remove the battery during operation – always shut down the instrument by pressing the OFF key. Furthermore do not use the battery until it is completely empty resulting in an irregular shutdown of the instrument.

20 What to do if I forgot my PIN code?

On the instrument you have three times to enter a wrong PIN code. After the 3rd time you are forced to type in the PUK code, which is supplied on the License-key Information sheet, provided with the delivery papers.
If this document is not available anymore, contact your authorized GeoMax dealer.

21 How are atmospheric and geometric corrections applied?

Atmospheric ppm's are applied to the slop distance, while geometric ppm's are applied to the horizontal distance.

22 Which software is running on the handheld/controller?

There are various choices of software, like GeoMax FieldGenius, LSE XPAD or Carlson SurvCE

23 Where do I obtain the FieldGenius software?

The current version of FieldGenius is available for download from MicroSurvey's Support website at http://www.microsurvey.com/support/
Click on the "comprehensive list of installations" link and scroll down to the FieldGenius section. Here the software installer for various languages and the release notes can be found.

24 How do I register my FieldGenius installation?

When ordering a FieldGenius module, a GUID number will be supplied on a printed card. The registeration of your installed software is done using MicroStation's Web Registration Portal at http://microsurveylicenseserver.com/ValidateSerialNumber.aspx
Here you enter the supplied GUID number.
Your Device ID is requested next. You will find this ID number when starting FieldGenius on the handheld as shown in the example below:

A key is then generated which needs to be entered into the handheld and then click "Apply Key".