güralp

AND MINIMUS+

MINIMUS

CAPTURE. PROCESS. DISTRIBUTE.

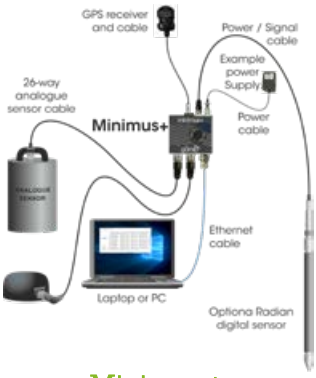
QUICK START GUIDE

MINIMUS

Initial Hardware Setup



Minimus



Minimus+

Power cable (with bare ends), GPS receiver, GPS cable and Ethernet cable are supplied with the Minimus Accessory Pack. Analogue and digital sensor cables are supplied with the respective sensors. No power supply is included.

1. Connect all the hardware using the cables supplied, as shown above.

2. Switch on the power supply (10-36 V DC). The LED indicator on the Minimus will behave as shown in the table.

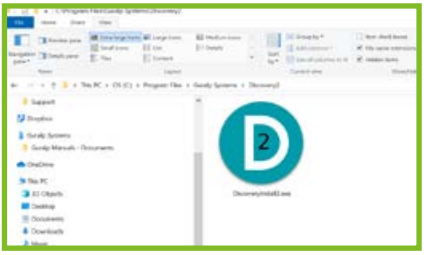
LED Flash	Status
WHITE flashing rapidly	Booting-up (10-20s)
Quick RED flash followed by a 1s pause	Removable microSD present, no fixed microSD card
2 quick RED flashes followed by a 1s pause	Fixed microSD present, no removable microSD
3 quick RED flashes followed by a 1s pause	MicroSD cards present, missing or poor GPS
GREEN flash every 4s	MicroSD cards and GPS all OK (may take up to 10min)

Güralp Discovery Software

Download Güralp Discovery from:

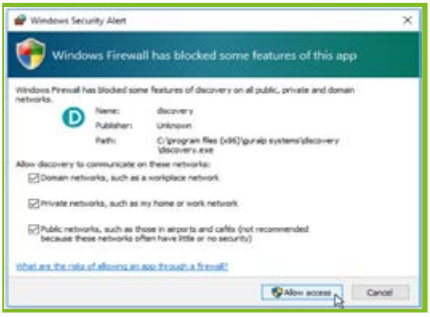
https://guralp.com/sw/download-discovery.shtml

(Please contact support@guralp.com for other operating systems)



Run the installer that you have downloaded, follow the on-screen instructions to install and then launch Discovery.

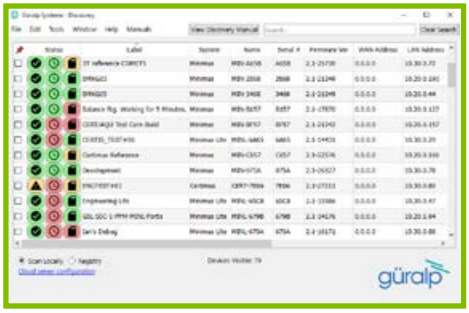
If you see a dialogue from Windows Firewall saying that it has “blocked some features of this app”, select one or more networks from the list provided and then click Allow access.





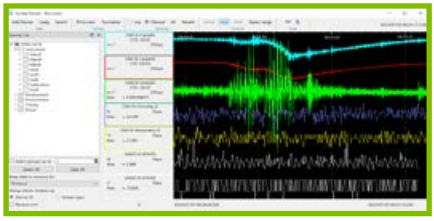
Ensure that your version of Discovery is up to date. To do this, in Discovery, click on the **Help** menu and select **About**. Click on the **Update** button and follow the on-screen instructions.

View Live Waveform



Launch Discovery software. The serial number (as shown on the base of the Minimus) should appear in the main window. If the instrument does not appear, check Ethernet connection and then press the **Scan Locally** button (more troubleshooting details in Minimus user's manual in section 4.1). Right-click the instrument and select **Live View** then **GDI**.

The Live View window will open and start streaming all available data from the Minimus. Streams can be added or removed from the viewer using the **Channel List** panel on the left-hand side. Amplitude and time zoom/pan can be controlled using the keyboard arrow-keys or the mouse-wheel.





To configure the Minimus (view instrument state-of-health information, configure station metadata and network preferences, manage data storage and data flow), right-click on the Minimus in Discovery's main window and select **View Web Page**.

Next Steps

For detailed information on usage, control and configuration, we highly recommend first reading the **Minimus Manual**.

All manuals are available on the Güralp Technical Library:

https://www.guralp.com/technical-library

GüVü App

GüVü is an app for monitoring the state of health of Güralp seismic instrumentation. It is available for Android:

https://play.google.com/store/apps/details?id=com.guralp.whisper

EU Declaration of Conformity

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We

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Declare under our sole responsibility that the following product

Equipment name: Minimus and Minimus+ with GPS
Model Number: MI-2407SA0V20124 and MI-2414SA0V20643 and appropriate variants

Is in conformity with the

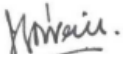
Radio Equipment Directive 2014/53/EU
Electromagnetic Compatibility Directive 2014/30/EU
Low Voltage Directive 2014/35/EU
Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU

by applying the following harmonised standards and technical specifications:

EN 55011, EN 55016:2009 +A1:2010 – Conducted Emissions
EN 55011, EN 55032 :2009 +A1:2010 – Radiated Emissions
EN 61000-4-2:2009 – Electrostatic Discharge Immunity
EN 61000-4-3:2006 +A1:2008 +A2:2010 – Radiated RF Immunity
EN 61000-4-4:2012 – Electrical Fast Transients Immunity
EN 61000-4-5:2014 – Voltage Surge Immunity
EN 61000-4-6:2014 – Conducted RF Immunity
EN 61000-4-8:2010 – Power Frequency Magnetic Field Immunity
IEC 61010-1 3rd Edition - Low voltage Safety
2011/65/EU – RoHS

Signed for and on behalf of
Guralp Systems Ltd
on 25 February 2020

Systems Director



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Quality Certificate

It is hereby certified that the product identified below has been fully tested and calibrated in accordance with the Güralp Quality Assurance Program.

It is further certified that any product designed and manufactured by Güralp Systems Ltd is carried out in accordance with the applicable Original Manufacturer Approvals.

The Güralp Quality Management System has been assessed and is certified to meet the requirements of ISO 9001:2015 for the design and manufacture of low noise Broadband Seismometers, Accelerometers, Digitisers and associated networking equipment.

All our calibrated reference equipment is certified by an independent test laboratory, and in compliance with the international standard ISO/IEC 17025:2005.

Certificate Serial Number:	Product Serial / BatchNo:
Final Quality Approval:	Date of Issue:

Notes

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