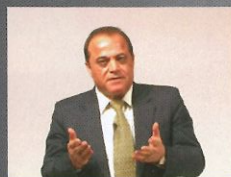


You've come a long way, Survey!



JAVAD

Triumph-VS



Watch Our Three New
Revolutionary Products



View at

WWW.JAVAD.COM

Three New Revolutionary Products



1

**High precision all-frequencies GNSS Antenna
GPS+GLONASS+Galileo**

**Revolutionary, compact,
216-channel GNSS Receiver**

2

**External
Power
USB
USB
Ethernet**



Packaged in One!



3

**Breakthrough, wide-screen,
high-resolution handheld controller**

- **Loaded with Revolutionary Software**



**External GNSS
antenna
External UHF
antenna
1PPS/Event
Ext. Freq In/Out
Connectors**

Draw

Draw Objects

- Point >
- Polygon/Polyline >
- Circle >**
- Rectangle >
- CoGo Draw >

Map Features

- List Points >
- Layers >
- View Background Map
- Auto Scale to Fit All
- Cursor Motion 1 m

Back Draw a circle on the current map. Home

Add Relative Point

Name: Yellow Stone 84 Layer: Layer 1

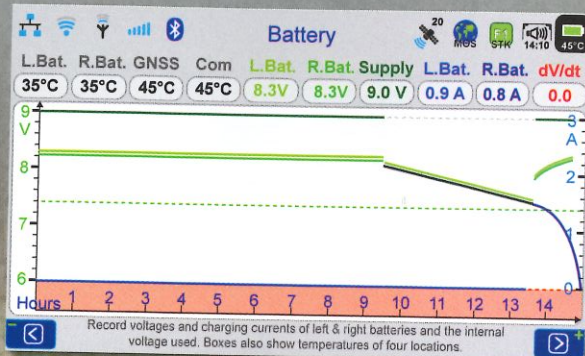
Type	Man Hole	Symbol	Data Dictionary
East	4.000 m	Hor. Distance	5.000 m
North	3.000 m	Hor. Angle	53.130°
Up	10.000 m	Vert. Up	10.000 m

Cancel Enter a name for this point. The relative location of this new point can be specified either in Cartesian or in polar formats of this screen. Apply

Satellites

SAT	EL	AZ	H	L1	P1	P2	L2C	L5	SAT	EL	AZ	H	L1	P1	P2	L2C	L5	
GPS7	7	106	H	32	--	32	--	--	GLN11	11	96	H	40	39	26	26	--	--
GPS8	41	102	H	46	30	30	--	--	GLN13	54	298	H	45	44	42	43	--	--
GPS9	14	286	H	37	10	10	--	--	GLN14	6	284	H	34	31	36	36	--	--
GPS11	13	82	H	37	--	--	--	--	GLN21	34	40	H	48	47	44	45	--	--
GPS15	55	274	H	49	37	37	48	--	GLN22	48	114	H	48	48	47	49	--	--
GPS17	30	156	H	45	29	29	44	--	GLN23	14	162	H	43	41	37	40	--	--
GPS19	8	28	H	37	11	11	--	--	WA124	32	202	H	38	--	--	--	--	--
GPS26	46	298	H	37	--	--	--	--	WA126	27	196	H	34	--	--	--	--	--
GPS27	27	288	H	42	20	20	--	--										
GPS28	71	86	H	49	39	39	--	--										
GLN2	6	220	H	36	36	31	32	--										
GLN3	31	266	H	45	45	43	44	--										

Internal battery status, temperature and discharge history.



Support

- Update Firmware > Update OAF >
- Check Hardware > Send Files to JAVAD >
- Questions & Answers >

Cancel Connect to JAVAD GNSS server to check the health of your TRIUMPH V.S. hardware and software. Apply

Message: How can I upgrade my receiver to include Galileo?

Update Firmware

Update Channel

Auto Ethernet WiFi GPRS

Update Now

Schedule Updates

Mon Tue Wed **Thu** Fri Sat Sun

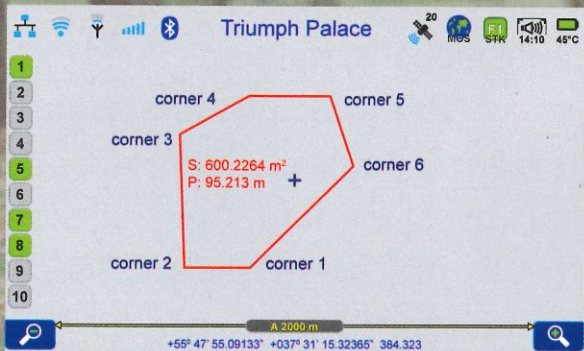
At: 08:00 Do not wait for confirmation

Cancel Firmware update starts at time specified at "Start at" on days that have been checked. Apply

CoGo & Draw

Cancel Apply

Speak for themselves



Let the Screens...

LAN

Auto IP (DHCP) Auto DNS (DHCP)

IP 172.16.0.123 DNS 1 172.16.0.1

Net Mask 255.255.255.0 DNS 2 172.16.0.2

Gateway 172.16.0.1

Cancel Apply

Enables/Disables IP address and DNS server address automatically obtain

UHF

Frequency 440000000 Output Power 16 dBm

Protocol

JAVAD Pacific Crest

Trimble Satel

Antenna

Internal External

Cancel Apply

Activate Javad protocol

Javad Protocol

Modulation DQPSK FEC

Channel Spacing (CS) 25.0 Scrambling

Link Rate 19200 bps

Call Sign > Transmit via Repeater

Cancel Apply

Specify modulation type

NTRIP Client

IP Address 89.175.180.244 User simonov

TCP Port 2101 Password simonov

Mountpoint ZIM24

Cancel Apply

Enter mountpoint name of NTRIP caster to get data from

NAD83(HARN)

NAD83(HARN) / California zone 4 NAD83(HARN) / California zone 5

NAD83(HARN) / California zone 4 NAD83(HARN) / Colorado Central

Height System: North American Vertical Datum of 1988 >

Geoid: Geoid 2009 - North American Geoid >

Transformation >

Cancel Apply

1 2 3 4 5 6

June 2010

Mon	Tue	Wed	Thu	Fri	Sat	Sun
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

Cancel Apply

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Tue, 2 Febr 2010
14:10:18

Settings Maps CoGo Fn Buttons Tutorial Language Options

Points GNSS Data Images Audio Files Calendar Calculator Contacts

Timing Exchange Camera Voice Rec Support System Locks

Set parameters and select operation. You can save settings in files. You can also assign settings to F1 to F5 keys.

Settings

GNSS > Advanced >

Communication > Antenna >

Actions > Save Settings >

Photo & Voice > Recall Settings >

Assign Current Settings to Fn Button and Name it (SUR)

F1 F2 F3 F4 F5 Name SUR

Define automatic operations of Front and Bottom cameras and Voice Recorder during the start-stop operation period.

GNSS

GPS GLONASS Galileo SBAS

Receive Data (Rover) > Transmit Data (Base) >

Record Data > VRS Networks >

Elevation Mask 5 Deg. Duration >

Reject In-Band Interference Auto Correct Alignment

When you click the start button of the Action screen, it will operate for the length of time you specify here.

Duration

Operate Until Stopped Manually

Operate for 10 Sec

Operate Until Accuracy is Better than 3 cm

Operate as Scheduled >

Delay 30 sec

Operation continues until the specified accuracy is achieved.

Transmit Format

None RTK-JPS full RTK-JPS min

RTK - CMR RTK - CMR+ RTK-RTCM 2.x full

RTK-RTCM 2.x cors RTK-RTCM 3.0 DGPS full

DGPS part NMEA 183 User Defined

Select format of data to be transmitted.

Receive Data

UHF RTCM 104 BlueTooth None

GSM None USB None

WiFi None SBAS None

Use Data for up to 20 sec RTK/DGPS Rate 1 Hz

Select format of data to be received by the GSM.

Actions

Point Survey Stake-Out

Parcel Survey Stake Survey

Trajectory Survey Monitor Structure

Stop&Go Survey Fixed Base Station

Auto Stop&Go Survey Guidance

Prepares Action Screen for Stake-Out Survey. This survey is done after stakes are planted in the Stake-out phase.

Edit Point

Previous Next View Data Survey Again

Name Yellow Stone 84 Layer Layer 1

Type Man Hole Symbol * Data Dictionary >

Type-in Position > Move Point >

Surveyed (RTK Fixed)	+52° 29' 47.92110"	+52° 29' 47.9200"	+34 mm
Target	+4° 56' 08.32106"	+4° 56' 08.32"	+19 mm
Difference	+1.052	+1 mm	+52 mm

Select a "type" for this point. Points which have type "Stake" will be selected during the stake-out and stake-survey process.

And About Pricing...

Complete 5 Hz RTK System, including:

- 216 All-In-View Channels
- GPS L1/L2/L2C/L5
- GLONASS L1/L2
- 5 Hz RTK/DGPS Rover
- RTK/DGPS Base
- 5 Hz Raw Data Recording
- 256 MB Internal Data Storage
- 4 GB MicroSD Card
- Two USBs
- RAIM
- Communication Channel (UHF or GSM/GPRS/EDGE)
- Internal Triple Frequency GPS/GLONASS/Galileo Geodetic Antenna
- Integrated High Resolution (800x480 pixels) Controller and Software
- Advanced Multipath Reduction
- WAAS/EGNOS
- WiFi 802.11b
- Bluetooth
- Removeable/Rechargeable Li-Ion Battery Pack (> 10 H)
- External Power Supply/Charger
- Soft Carrying Case
- Shoulder Strap
- Graduated Monopod
- Power and USB Cables
- Tripod Adaptors
- Stylus and Support Legs



\$11,950

Expansions and Options:

- Galileo E1/E5A (of All Current and Future Galileo Sattalites)
- 100 Hz RTK
- 100 Hz Data Recording
- 4 GB Internal Data Storage
- In-Band Interference Rejection
- External Antenna Connection
- Audio/Visual Features and Automatic Mis-Alignment Corrections
- Second Communication Channel (UHF or GSM/GPRS/EDGE)
- Ethernet
- Timing Signals (Event Marker and 1-PPS)

See www.javad.com for details