

STONEX S500 GNSS RECEIVER

User Manual





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# **1. Interface Description**



Figure 1.1: Front view of S500





Figure 1.3: Bottom view of S500

Figure 1.2: Side view of S500



The receiver interface description in the following table.

Num.	Item	Description
1	Connection led indicator	Blue flash when Bluetooth/Wi-Fi connected
2	Data link led indicator	Green flash when differential data transmitting
3	Satellite led indicator	Green flash according to number of stars tracked
4	Battery led indicator	<ul> <li>Green always on when normally operating</li> <li>Red flash with warning beep when power is less than 10%</li> <li>Red always on in charging</li> <li>Green on when charging finished</li> </ul>
5	Power button	Button to turn on/off the receiver
6	USB type-C port	Type C port supports USB 2.0, not OTG
7	SIM card slot	For Nano SIM card with push pop mode



# 2. Operation

#### 2.1 Power on/off, reset, charging

Press and hold the power button for 3 seconds to turn on/off receiver.

Press and hold the power button for 12 seconds to reset the receiver.

Use the standard charger and type-C data cable to charge. The battery led indicator is red in charging and green when charging finished.

#### 2.2 How to connect mobile phone or PC to receiver via Wi-Fi

The name of Stonex GNSS receiver hotspot is the receiver serial number.

After connecting to \$500 Wi-Fi, open the browser and type the following IP address: 192.168.10.1.

A window pops up and asks for username and password; the default username and password are "admin" and "password" respectively. Then you can login the web user interface of S500.

#### 2.2.1 What is on Web Interface

In the Position page, you can view the current location information and solution and all the information relative about the current solution processed by S500.

atellites	^	Satellites	17/17	Solution	Fixed
		Longitude	9°14'24.8833"	Latitude	45°35'57.6372"
kyplot		Altitude	234.371	HRMS	0.032
atellites Info		VRMS	0.03	PDOP	1.4
evice	~	HDOP	0.8	VDOP	1.2
		Date	2019-06-04	Time	12:14:57
nformation		Differential Delay	1(s)		
ielf-Test Ipgrade		2			
Observations		43			
IMEA					
fiew Log					

Figure 2.1: Position page



In the Skyplot page, you can view satellite Sky map. The satellite are colored in base of the constellation.





In the Satellites Info page, you can see satellites information. Also inside the Satellite info page, the satellite are scheduled in base of the costellation.

Satellites	Number	Elevation	Azimuth	L1
Position	G2	33	58	41
Skyplot	G12	38	86	45
Satellites Info	G14	26	265	37
	G25			
Information	G29			
	G31	42	305	45
Self-Test	G32	19	244	36
Upgrade	R74	43	118	45
Observations	R75	71	342	47
NMEA	R76	27	318	35
View Log	R84	42	37	37
Settings	R85	72	175	46
APN	E1	72	321	46
Trace back Settings	E26	57	155	44
Working Mode	C8	17	31	32
Port Settings	C11			
Convert Coordinate	C13			





In the information page, you can view device info such as firmware version.

Satellites	~	Firmware	1.0.20190531
Position		GNSS Serial no.	2310409000020-GH1201182502581
Skyplot		GNSS Hardware	UM440
Satellites Info		GNSS Firmware	R2.00Build
Device	^	IMEI	869074034755152
		Battery Level	18%
Information		Network Signal	IT(LTE)
Self-Test		IP Address	31.159.87.101
Upgrade		Signal Level	38%
Observations		CORS Connection	Connected
NMEA		Differential Mode	Differential corrections
View Log		Current Data Link	Internal
Settings	^	Available Storage	3.95 G
APN		Total Storage	4.36 G
Trace back Settings			

Figure 2.4: General Information Page

In the checking page, you can run the self-test program.

Satellites	~	Checking
Position		Charl Charling
Skyplot		Start Checking
Satellites Info	~	
Information		
Self-Test		
Upgrade		
Observations		
NMEA View Log		
Settings	~	

Figure 2.5: Self Check page



In the upgrade online page, you can choose a file to upgrade and do the firmware upgrade of your device. To upgrade your S500 choose the firmware file from your PC and select Upload. Wait until the process is completed.

Satellites	~	Upgrade Online	
Position		Please select a file	
Skyplot		Choose File No file chosen	
Satellites Info		Upload	
Device	^		
Information			
Self-Test			
Upgrade			
Observations			
NMEA			
View Log			
Settings	^		

Figure 2.6: Firmware upgrade page

In the observation page, you can download observation files. Download the raw data stored inside the S500 on your PC and then use them in operation as Post Process Job.

Satellites	<u>^</u>	Select	Filename	Size	Modify Time	Convert	Download	Delete
Position			00232019053101.dat	28 K	2019-05-31 10:03:48	Convert	Download	Delete
Skyplot								
Satellites Info		Check All	Batch Download Batch	Delete				
Destar	~							
	~							
Information								
Information Self-Test								
Information Self-Test Upgrade								
Device Information Self-Test Upgrade Observations NMEA								

Figure 2.7: Raw data Page



In the NMEA page, you can download NMEA files.

Satellites	^	Select	Filename	Size	Modify Time	Download	Delete
Position			2019053003.nmea	303 K	2019-05-30 10:46:27	Download	Delete
Skyplot			2019053004.nmea	92 K	2019-05-30 10:48:49	Download	Delete
Satellites Info			2019053005.nmea	1.24 M	2019-05-30 11:49:02	Download	Delete
)evice	^		2019053006.nmea	6.88 M	2019-05-30 17:36:49	Download	Delete
nformation			2019053101.nmea	423 K	2019-05-31 15:08:57	Download	Delete
Self-Test			2019053102.nmea	4.81 M	2019-05-31 11:31:56	Download	Delete
Jpgrade			2019053103.nmea	2.68 M	2019-05-31 12:49:28	Download	Delete
bservations	_		2019060301.nmea	6.17 M	2019-06-03 14:19:59	Download	Delete
IMEA			2019060402.nmea	4.44 M	2019-06-04 12:19:33 (Record)	Download	Delete
	^	Oberty All	Data Davada ad	ut Dalata			
/iew Log Settings	^	Check All	Batch Download Ba	tch Delete			

Figure 2.8: Nmea Files Page

In the view log page, you can download, and view device run log.

atellites	<u>^</u>	System log	
sition			
kyplot		Download log Ł Show log ❤	
atellites Info			
evice	~		
formation			
Test			
grade			
oservations			
1EA			
ettings	~		

Figure 2.9: Log Page



In the working mode page, you can set system mode, datalink and other device settings.

Satellites	Working Mode Settings		
Position	System Mode:	●Rover ◎Base	
Skyplot	Current Datalink:	SBAS Network External	
Satellites Info		No Datalink	
Device	Mode:	NTRIP	۲
Information	Server Address:	it.nrtk.eu	
Self-Test	Server Port:	2101	
Upgrade	Server Port:	.2101	
Observations	Access Point:	IMAX3-RDN	~
NMEA	Username:	user	
View Log	Password:	password	5
Settings	Password.	password	_
APN	Connect Immediately:	●Yes ◎No	
Trace back Settings	Save	Get Mountpoint	
Working Mode			

Figure 2.10: Working mode page

Inside working mode page is possible set the Observation settings to start or Stop the Raw Data Log session.

Upgrade		
Observations	Access Point:	IMAX3-RDN
NMEA	Username:	user
View Log	Password:	password
Settings ^	Connect Immediately:	●Yes ◎No
APN		
Trace back Settings	Save	Get Mountpoint
Port Settings		
Convert Coordinate	Observation Settings	
GNSS	Status:	Enable
Set NMEA output	Interval:	1 Hz 🔻
Others		
	Duration Tme:	15 minutes 🔹
	FTP Push:	Enable ® Disable
		Set

Figure 2.11: Working mode page



In the set NMEA output page, you can set NMEA statement and output frequency.

Satellites	Set NMEA Output						
Position	GGA:	1S	¥	GSA:	1S	Ŧ	
Skyplot Satellites Info	GST:	1S	•	ZDA:	1S	•	
Device ^	GSV:	5S	•	VTG:	1S	•	
nformation	RMC:	close	¥	GLL:	close		
Jpgrade	DTM:	close	×	GNS:	close	*	
Observations	GBS:	close	٣	GRS:	close	•	
NMEA	HDG:	close	•	HDM:	close	×	
Alew Log Settings	HDT:	close	•	HEV:	close	Ŧ	
APN	HPR:	close	¥	ROT.	close	•	
Frace back Settings	RRE:	close	¥	ALM:	close	•	
Norking Mode	GEREF:	5s	•	GELOC:	1S	*	

Figure 2.12: Set NMEA page

#### 2.3 How to connect the handheld to receiver via Bluetooth

Make sure that the app Cube-Connector is installed on your handheld; open it, search your S500 with its serial number and connect S500 via Bluetooth.

Handheld will search Bluetooth devices; find target S500 serial number and press "Connect".

Connect Mode: Blueto	oth 🗸	Connect Mode: Bluetoo	oth 🗸		300 <sup>°</sup> 30 <sup>°</sup> 30 <sup>°</sup>	
Device Name	Mac Address	Device Name	Mac Address	ĕ	300 <sup>-</sup> 0 <sup>-</sup> <sup>10</sup>	80.
	80:FB:F0:4D:C2:24	M220451900005	80:FB:F0:4D:C2:24		270"	90*
	44:85:00:4B:82:68	STONEXNB37	44:85:00:4B:82:68			<b>*</b>
	84:EB:18:50:DA:D7	SC2005061005W	84:EB:18:50:DA:D7		240' 🕘 🧕 🥂	120"
	50:33:88:66:81:39	S813580702003	50:33:8B:66:81:39		210 15	/ 
	A4:86:AE:1C:0A:63	M220451900023	A4:86:AE:1C:0A:63		180*	
	98:2C:BC:78:F2:D9	stonexnb42l	98:2C:BC:78:F2:D9	GPS info		
Searching		ChromeLinux_A6 <mark>Connect</mark> ir	ChromeLinux_A6Connecting with BTs:7A:F0:25:88		9.1424883340 VRMS:	0.036
		f022csrK	80:E4:DA:72:CA:CA	H:	234.3879 State:	FIXED[1
				SNR		Visit
				50 50	111 -11 -11	

Figure 2.13: Stonex Cube Connector visualization



# 3. Care and Transport

#### 3.1 Equipment care

Respect the temperature limits when storing the equipment, particularly in summer if the equipment is inside a vehicle. Refer to "Technical Features" for information about temperature limits.

### 3.2 Build in Battery Care

Your product is powered by a rechargeable battery. The full performance of a new battery is achieved only after two or three complete charge and discharge cycles. The battery can be charged and discharged hundreds of times but will eventually wear out.

Do leave a fully charged battery connected to a charger, since overcharging may shorten its lifetime.

If left unused, a fully charged battery will lose its charge over time.

### 3.3 Charger Care

Do not attempt to charge/power your product with other than the charger provided. The use of any other types may damage or destroy the product and could be dangerous. Use of other chargers may invalidate any approval or warranty.

For availability of approved enhancements, please check with your dealer.

Charge/power the product according to the instructions supplied with the product.

#### 3.4 Maintenance

Unplug the product or charger before cleaning. Cleaning the product by wiping with a dry or slightly damp cloth.

The cord and charger may only be dry dusted.

#### 3.5 Transport

When transporting the product by rail, air or sea, always use the complete original STONEX packaging, transport container and cardboard box, or its equivalent, to protect against shock and vibration.

Never carry the product loose in a road vehicle, as it can be affected by shock and vibration.

Always carry the product in its transport container, original packaging or equivalent and secure it. When transporting or shipping batteries, the person responsible for the product must ensure that the applicable national and international rules and regulations are observed. Before transportation or shipping, contact your local passenger or freight transport company.



# 4. Warning and declaration

#### 4.1 FCC warning statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: this device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio/TV technician for help.

#### 4.2 FCC RF warning statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



# 5. S500 Technical Features

RECEIVER		COMMUNICATION		
	GPS: L1	I/O Connectors	TYP C connector support USB 2.0	
	GLONASS: L1	Bluetooth	4.0, 2.4 GHz	
Satellite Tracked	BEIDOU: B1	Wi-Fi	802.11 g	
	GALILEO: E1	Differential	RTCM 2.x, 3.x	
	SBAS: L1	Differential	CMR	
Channels	432			
Position Rate	Up to 20 Hz	POWER SUPPLY		
Signal Reacquisition	< 1 sec	Battam	Rechargeable	
RTK Initialization	Typically > 120 sec	Battery	3.8 V – 6.000 mAh	
Hot Start	Typically < 15 sec	Working Time	Up to 10 hours (Post Processing) Up to 8 hours (RTK with GSM)	
Initialization Reliability	> 99.9 %	working time		
		Charge Time	Typically 6 hours	
POSITIONING <sup>1</sup>				
POST PROCESSING	1 cm	PHYSICAL SPECIFICATI	ON	
DGPS	<50 cm	Dimensions	136 mm x 78 mm x 31 mm	
RTK <sup>2</sup>	3 cm	Weight	350 gr	
		Operating Temperature	-30°C to 65°C (-22°F to 149°F)	
INTEGRATED GNSS	ANTENNA	Storage Temperature	-40°C to 80°C (-40°F to 176°F)	
Four constellation anter	าทล	Waterproof/Dustproof	IP67	
HARDWARE		Shock Resistance	Designed to endure to a 1.2 m pole drop on concrete floor with no damage	
Processor	SC20			
RAM	512 MB	STANDARD ACCESSOR	IES	
Flash Memory	8 GB	USB cable, Belt Case		
Operating System	Android			
eperating of stern	, individ	OPTIONAL ACCESSORI	ES	
INTERNAL MODEM		Carbon fiber pole, Telescop	ic pole, Bracket 5/8", Soft Case	
Band	GSM/GPRS/EDGE WCDMA/LTE			

Specifications are subject to change without notice.

Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions and obstructions. In static mode they are subject even to occupation times: the longer is the Baseline, the longer must be the occupation time.
 Network RTK precision depends on the network performances and are referenced to the closest physical base station.



## 6. S500 Bundle

### 6.1 Standard Configuration

S500 standard bundle is composed with the receiver, the 4 adaptor plugs to compose the battery charger in base on the country, two USB cable (1 Type C-Type C and 1 Type C-Type A), a cloth bag to use the S500 without a pole and a carton box.

DESCRIPTION	Q.TY
S500 GNSS L1, 432Ch, 4G, WIFI, BT - Bundle	1
Power Adaptor with 4 plugs(US, UK, EU and AU)	1
TypeC-TypeC, 1.5m	1
TypeC-TypeA, 1.5m	1
Cloth bag for \$500, black	1
Carton box	1

Figure 6.1: Standard bundle configuration





### 6.2 Optional Accessory

S500 has some optional accessory. To use the S500 mounted on a pole it's necessary the apposite adaptor. This allow the user to use S500 in vertical and have a precise and stable support.

DESCRIPTION	Q.TY
\$500 – Pole Mount	1
Softbag	1
Telescopic Carbon fiber pole 2.2 m	1

Figure 6.3: S500 Accessory



### **Appendix 1: Copyrights, warranty and environmental recycling**

#### Copyrights and trademarks

© 2019, STONEX® Limited. All rights reserved.

STONEX®, the STONEX® logo, and S500 GNSS receiver are trademarks of STONEX® Limited.

STONEX® Cube-Connector, STONEX® GPS Processor are trademarks of STONEX® Limited.

Bluetooth is a trademark owned by Bluetooth SIG, Inc. and licensed to Trimble Navigation Limited. All other trademarks are the property of their respective owners.

#### **Release Notice**

This is the June 2019 release of the STONEX® S500 GNSS new model receiver user guide.

The following limited warranties give you specific legal rights. You may have others, which vary from state/jurisdiction to state/jurisdiction.

### Standard Limited Warranty

#### Version 2019

The terms and conditions of this Limited Warranty constitute the complete and exclusive warranty agreement between The Customer or Dealer and STONEX<sup>®</sup> for the Product and supersedes any prior agreement or representation made in any STONEX<sup>®</sup> sales document or advice that may be provided to Customer by any STONEX<sup>®</sup> representative in connection with Customer's purchase of the Product. No change to the conditions of this Limited Warranty is valid unless it is made in written form and signed by an authorized STONEX<sup>®</sup> supervisor.

STONEX<sup>®</sup> warrants that its Products:

- Are free from defects in materials or workmanship for generally 1 year;
- Accessories or specific parts for which different limited warranty period shall apply;
- Have been tested/calibrated in proper working status prior to shipment.

The warranty period starts from date of first sale of the instruments. At its sole discretion, under the warranty period, STONEX<sup>®</sup> will repair the product or send parts for replacement at its expense. STONEX<sup>®</sup> agrees to repair or replace the defected instrument within thirty (30) days only if STONEX<sup>®</sup> Europe recognizes that the defects of the instrument are not caused by human factors or no obvious damage to its surface is visible. STONEX<sup>®</sup> warrants any new replaced parts or products are warranted to be free from defects in materials and workmanship for thirty (30) days or for the remainder of the Limited Warranty Period of the Product in which they are installed, whichever is longer. Faulty Parts or Products replaced under this Limited Warranty shall become property of STONEX<sup>®</sup>. All products that have to be repaired have to be returned to our technical representative office location via any delivery company the customer prefers, nevertheless STONEX<sup>®</sup> is not accountable for the unlikely event that the Products gets lost in transit. Any damage inflicted by the customer or by third party after the products has been delivered to the customer is excluded from the limited warranty as well any damage arising from an improper use, from any action or use not provided for in the enclosed user guides and/or manuals.



### Shipping policy

The Customer or the dealer is required to pay for the charges for shipping of fault parts or instruments to STONEX<sup>®</sup> representative office and STONEX<sup>®</sup> is providing the shipping for return. Dealers need to follow STONEX<sup>®</sup> repair/service procedure to achieve a better and prompt service result.

#### Return policy Dead on Arrival instruments

All returned products have to be shipped to STONEX® representative office.

The original Purchaser has a period of seven (7) days starting from date of purchasing to signal the existence of a defect in the instrument for a full refund (less shipping and handling), provided the merchandise is in new, resalable condition and returned in the original, undamaged packaging. Customer has to pay for both the return and the original freight fees, regardless of the original freight paid by the Company. All warranty books, instruction manuals, parts and accessories must be included as well as the original box in which the item was shipped. We recommend placing the original carton inside another box, to avoid any additional damage to the carton itself. In some cases, returns of special items will require a restock fee. Acceptance of returned merchandise is final only after inspection by STONEX<sup>®</sup>.

Above terms and policies shall apply as for hardware. Dealers need to follow STONEX<sup>®</sup> repair/service procedure to achieve a better and prompt service result.

#### Firmware/Software warranty

Stonex doesn't warrant that operation of Firmware/Software on any instruments will be uninterrupted or error-free, or that functions contained in Firmware/Software will operate to meet your requirements.

Stonex will forward the Software/Firmware Fix to the dealer or customer. Firmware/software Fix means an error correction or other update created to fix a previous firmware version that substantially doesn't conform to the instruments specification.

### Over Warranty repair(s) policy

Customer shall pay the standard repair fees for any service (whether part replacement or repairs) and performed by STONEX<sup>®</sup> under request and explicit authorization of the customer itself. In this case the customer is charged for return shipment's fees as well.

#### **Disclaimer and Limitation of Remedy**

All other express and implied warranties for this product, including the implied warranties of merchantability and fitness for a particular purpose and/or not infringement of any third party's rights, are hereby disclaimed. Stonex<sup>®</sup> expressly disclaims all warranties not stated in this limited warranty. Any implied warranties that may be imposed by law are limited in duration to the term of this limited warranty. Some jurisdictions do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to customer. Customer must read and follow all set-up and usage instructions in the applicable user guides and/or manuals enclosed. If customer fails to do so, this product may not function properly and may be damaged. Customer may lose data or sustain personal injuries. Stonex<sup>®</sup>, its affiliates and suppliers do not warrant that operation of this product will be uninterrupted or error free; as do all electronics at times. If this product fails to work as warranted above, customer's sole and exclusive remedy shall be repair or replacement. In no event will Stonex<sup>®</sup>, its affiliates or suppliers be liable to customer or any third



party for any damage in excess of the purchase price of the product. This limitation applies to damages of any kind whatsoever including (1) damage to, or loss or corruption of, customer's records, programs, data or removable storage media, or (2) any direct or indirect damages, lost profits, lost savings or other special, incidental, exemplary or consequential damages, whether for breach of warranty, contract, tort or otherwise, or whether arising out of the use of or inability to use the product and/or the enclosed user guides and/or manuals, even if Stonex, or an authorized Stonex<sup>®</sup> representative, authorized service provider or reseller has been advised of the possibility of such damages or of any claim by any other party. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages for some products, so the exclusions or limitations may not apply to customer. This limited warranty gives customer specific legal rights, and customer may also have other rights which vary from country/state/jurisdiction to country/state.

#### Instruments

One (1) year on STONEX<sup>®</sup> Products: GNSSS receiver: S500 GNSS Series.

#### Accessories

#### **Accessories & Specific Parts Warranty**

For Accessories provided by Stonex with the instruments S500 GNSS the following general warranty time is for reference:

- Battery charger: 7 months.
- Adapters for battery charger, Cables, Pole: 2 years.



### **Environmental recycling**

The cardboard box, the plastic in the package and the various parts of this product have to be recycled and disposed of in accordance with the current legislation of your Country.

### For countries in the European Union (EU)

The disposal of electric and electronic device as solid urban waste is strictly prohibited: they must be collected separately.

Contact Local Authorities to obtain practical information about correct handling of the waste, location and times of waste collection centre. When you buy a new device of ours, you can give back to our dealer a used similar device.

The dumping of these devices at unequipped or unauthorized places may have hazardous effects on health and environment.

The crossed dustbin symbol means that the device must be taken to authorize collection centres and must be handled separately from solid urban waste.



#### For countries outside European Union (EU)

The treatment, recycling, collection and disposal of electric and electronic devices may vary in accordance with the laws in force in the Country in question.



# **Appendix 2: Safety Recommendations**

#### Warnings and Cautions

An absence of specific alerts does not mean that there are no safety risks involved in the use of this equipment.

Always follow the instructions that accompany a Warning or Caution, reported in this.

This information is intended to minimize the risk of personal injury and/or damage to propriety. In particular, observe safety instructions that are presented in the following form:

**WARNING** - A Warning alerts about risk for health and/or damage to the propriety. A warning identifies the nature of the risk and the extent the possible injury and/or damage. It also describes how to protect yourself and/or the equipment from this risk.

**CAUTION** - A Caution alerts about a possible risk of damage to the equipment and/or loss of data, but no risk for human safety.

### Wireless Module Approval

The receivers use internal wireless modules. Regulations regarding the use of the modem vary greatly from country to country. In some countries, the unit can be used without obtaining an approval license. Other countries require specific approval or auto certification by the set maker.

Before using this instrument, check if authorization to operate the receiver is required in your country. It is the responsibility of the importer to verify if it is necessary a certification or license for the equipment in the country of use.

### Instrument Approval

Covers technical features of the equipment relatives to electromagnetic emissions that can cause interference and disturbances to other instruments (note like emc compatibility) or generate not correct functionalities of the instrument itself. Approval is granted by the manufacturer of the equipment. Some countries have unique technical requirements for operation in particular frequency bands. To comply with those requirements, Stonex srl may modified the equipment to be subjected to grant.

Unauthorized modification of the units voids already got approvals, the warranty time and the operational licenses of the instrument.



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