

AWLaunch

Software manual

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Preface

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About this Manual

This Manual is designed to help you get familiar with the JAVAD Mobile Tools User Interface and introduce you to the JAVAD Mobile Tools main features.

Symbols and Typographic Conventions

This Manual uses the following text conventions:

Example Description.

Main Titles of dialog windows/boxes, names of menu options.

Screen Captures

This Manual includes sample screen captures. Your actual screen can look slightly different from the sample screen due to the receiver you have connected, operating system used and settings you have specified. This is normal and not a cause for concern.

Technical Assistance

If you have a problem and cannot find the information you need in the product documentation, contact your local dealer. Alternatively, request technical support using the JAVAD GNSS World Wide Web site at: www. javad.com.

To contact JAVAD GNSS Customer Support use the QUESTIONS button available on the www.javad.com.

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General Description

AWLaunch is an MS Windows® based, user-friendly software application designed for configuring and maintaining ArWest radio systems.

Management

AWLaunch is intended to manage the ArWest radio modems. It provides dialog boxes to change and configure all radio options.

In addition to the individual option-tuning feature, AWLaunch provides compound options for downloading feature. The downloading process uses X-Modem protocol that supports both the unit and the PC program. The manufacturing will provide a configuration in shipping packages so every user can configure each unit with default parameters provided by the vendor.

AWLaunch also works directly with a Command Line Interface (CLI), without a GUI, by entering CLI commands in a *Terminal* window.

Setting up AWLaunch

System requirements

Check that you have the following required (or recommended) items before installing and using AWLaunch.

A PC compatible with Intel® Pentium® 100 MHz or faster.

- 10 MB free disk space.
- 32 MB RAM or more (64 MB recommended).
- Operating Systems: MS Windows 2000, XP, Vista, 7, 8, 10
- An RS-232C port.

Installing AWLaunch

AWLaunch is available at the Javad GNSS website: http://javad.com/jgnss/products/software/awlaunch.html. Here are the steps to install it:

- Download the archived program from the website, extract from the archive and save it into a folder on your hard drive.
- Navigate to the location of the saved AWLaunch program and double click on the AWLaunch.msi icon.

🚱 🔍 🔻 🖓 « AWL) AWI	Lau 4 Search AWLaunch_versi P
Organize 👻 👸 Install 👻	Burn New folder 🔠 🔻 🗍 🔞
 ★ Favorites ■ Desktop ▶ Downloads > Recent Places ⇒ Libraries > Documents > Music 	Name
AWLaunch.msi Windows Installer F	Date modified: 10/08/2017 19:04 Package Size: 596 KB

Figure 1. Start installation

• Click Next to continue.

岗 AWLaunch	
Welcome to the AWLaunch Setup Wizard	
The installer will guide you through the steps required to install AWLaunch o	n your computer.
WARNING: This computer program is protected by copyright law and interna Unauthorized duplication or distribution of this program, or any portion of it, m or criminal penalties, and will be prosecuted to the maximum extent possible	stional treaties. lay result in severe civil under the law.
Cancel < <u>B</u> ack	Next >

Figure 2. AWLaunch setup wizard

• Keep the default installation location and click Next twice.

Select Installation	Folder	
The installer will install AWLaun	ch to the following folder.	
Fo install in this folder, click "Ne	ext". To install to a different folder, enter it b	elow or click "Browse".
<u>F</u> older:		
C:\Program Files (x86)\AWL	.aunch\	Browse
		Disk Cost
	f or for anyone who uses this computer	
Install AWLaunch for yourself		
Install AWLaunch for yourself		
Install AWLaunch for yourself		

Figure 3. Select installation folder

• After installation is finished, click *Close* to quit the wizard.

Uninstalling AWLaunch

To uninstall AWLaunch use the *Programs and Features* of Control Panel. The name of this section may vary between versions of MS Windows OS.

• Open the Control Panel of Operating System and go to *Programs and Features* section.

• Select AWLaunch and click *Uninstall*. This will uninstall the AWLaunch software.

Control Panel Home View installed updates Turn Windows features on or	Uninstall or change a program To uninstall a program, select it from the list and th	en click Uninstall, Change, or Rep	air.	
off	Organize 🕶 Uninstall Change Repair		800 🔻	2
	Name	Publisher	Installed On	Size
	Happle Application Support (32-bit)	Apple Inc.	15/10/2016	
	Apple Application Support (64-bit)	Apple Inc.	15/10/2016	
	Apple Mobile Device Support	Apple Inc.	15/10/2016	
	Apple Software Update	Apple Inc.	15/10/2016	
	Application Insights Tools for Visual Studio 2015	Microsoft Corporation	19/03/2016	
	Asmedia ASM Asmedia ASM Autodesk 3ds Autodesk 3ds Autodesk 3ds Autodesk 3ds Autodesk 3ds Are you sure you want to un	ninstall AWLaunch?	13 13 13	
	Autodesk Bac Autodesk FBX	this dialog box Yes	No 13	
	Autodesk Material Library Base Resolution Image Libr	Autodesk	14/09/2013	
	Autodesk Material Library Medium Resolution Image	Autodesk	14/09/2013	
	AwLaunch	AKWEST Secolar Software	28/08/2017	
	Beyond Compare Version 3.3.4	Scooter Software	21/01/2013	
	Bonjour	Apple Inc.	14/01/2016	
	Bonand C++Builder 5		14/01/2010	

Figure 4. Installing AWLaunch

Starting AWLaunch

Perform the following steps to run the software and connect to radio modem:

- Connect radio modem to the PC via RS232 serial port, USB or Bluetooth (optional) and power cycle it.
- Click *Start* in the bottom-left corner of your computer's screen, select *ArWest Communications* and click *AWLaunch*.
- At this point, AWLaunch window will appear as shown below.

Cor	nnection		
Contrig	Connection settings	Serial Port	
Preferences	Serial V	Baud Rate 115200 Communication with the Unit	
Utilities		Direct	
Networking	Connect	Ready to connect.	
			Identify

Figure 5. Connection

• In the open *Preferences* tab select the port connected to the radio and click *Connect*.

• Click Identify and wait till the identification process is completed.

• At this point, the radio is connected to and identified by the AW-Launch software. Ready to modify configuration parameters or update radio's firmware

Closing AWLaunch

To quit AWLaunch, click Close.

Warning: It is recommended to close the AWLaunch before switching the receiver OFF and disconnecting the cable.

Configurations

Identification

The *Identification* tab is used to get some identification parameters of the radio such as radio type, serial number, firmware and hardware versions. Perform the steps below to get them:

• Select the Identification sub tab of the Configurations tab;

• Click *Identify* (not necessary if identification process has been completed successfully once).

Indions	Identification Wireless Interface	Advanced Wireless Interface	Serial Interface Modem Dealer Configuratio
Configu	Unit Type HPT401, ID 74	Serial Number 00-00-04-00-81-33	
_	Hardware Version	Firmware version	
ces	Ver. 4.1	Ver. 3.2 Rev 04 B41	
sferen	Unit Name	Bootloader Version	
ž.		Ver. 4.0 Rev 03	
-			
3			
etworking			
ž			
		Print Config. Load C	ionfig. Save Config. Download Identify

Figure 6. Identification

Wireless Interface

Wireless Interface tab is used to set/get radio's wireless parameters such as wireless protocol, modulation type, frequency channel, output power, scrambling, FEC, availability of Repeater between Base and Remote radio modems. Perform the steps below to set/get the mentioned parameters:

- Select Wireless Interface sub tab of the Configurations tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Modify the parameters of wireless interface as your setup needs;

• Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

	Protocol Base @ Remote ArWest Transceiver	Modulation Dopping Senal Interface Modem Dealer Longuration Modulation
	RE Channel Automatic Scanning Frequency Channel Rx (2) - 448,000,000 ▼ Manual Frequency Channel Tx (1) - 462,000,000 ▼	RF Power 15 30 Misc Scrambling Link Id PFC Frame msa Data msa Status msa
n	- Flobbud , - areas in a	
	Print C	nfig. Load Config. Save Config. Download Identify

Figure 7. Wireless Interface

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Advanced Wireless Interface

Advanced Wireless Interface tab is used to set/get some advanced wireless parameters of the radio modem such as receiving Sensitivity, Synchronization reset time (the timeout between receiving the last burst of data and starting to look for signal again), Transceiver mode, Call Sign, etc. Perform the steps below to set/get the mentioned parameters:

• Select the *Advanced Wireless Interface* sub tab of the *Configurations* tab;

- Click *Identify* (not necessary if identification process has been completed successfully once);
- Modify advanced parameters of wireless interface as your setup needs;

• Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

lder	tification Wireless Interface Advanced Wirele	ss Interface Serial Interface Modem Dealer Configuratio
	PTP options	Antenna
Lices	Loop back 20	Power
	Sensitivity	Synchronization reset time
-	Automatic	Default (4 seconds)
Salling Sal		💿 No Reset
5	NONE	Custom 4 seconds
- -		Transceiver mode
		Transceiver
		© Rx Only
-		Tx Only
	Print Cor	nfig. Load Config. Save Config. Download Identify

Figure 8. Advanced Wireless Interface

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Serial Interface

The *Serial Interface* tab is used to set/get the serial port's parameters of radio modem, such as baud rate, parity, byte size, flow control, data buffering, routing options. Perform the steps below to set/get the mentioned parameters:

- Select the Serial Interface sub tab of the Configurations tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);

• Modify the parameters of serial interface as your setup needs;

• Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

nuations	ntification Wireless Interface Advance	d Wireless Interface Serial Interface Modern Dealer Configuratio
Contig	UART Baud rate	UART Baud rate
etworking Utilities Preferences	Received (over the air) data buffering in maintenance mode Enable ~	UART Parity UART Byte gae None UART Flow control UART Flow control None V Routing Active destination port(s) (write received data to) UART V UART V UART V UART V V UART V V UART How control V V V V V V V V V V V V V
<u> </u>	(Print Config. Load Config. Save Config. Download Identify Cose

Figure 9. Serial Interface

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Sleeping

The *Sleeping* tab is used to set/get sleep mode parameters such as enable/ disable sleep mode, go to sleep mode timeout and activity type of wake up. Perform the steps below to set/get these parameters:

- Select the *Sleeping* sub tab of *Configurations* tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Modify the parameters of sleep mode as your setup needs;
- Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

Note: If you do not intend to change the settings from other tabs, click Download to

download new settings into the radio modem.

Dealer Configuration - Channel Map

The *Dealer Configuration* tab is used to set/get channel spacing, frequency channel map, maximum allowable output power. Perform the steps below to set/get these parameters:

- Select the *Dealer Configuration* sub tab of the *Configurations* tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Select channel spacing parameter as your setup needs;
- To add a new frequency channel to the *Channel* map enter new frequency to the *Channel map's* edit box and click on the *Add* button (note that frequency value must be in Hertz);
- To remove a frequency channel from the *Channel* map, select the corresponding channel in the list and click *Remove*;

• To change the frequency of specified channel, select the corresponding channel in the list, change its frequency in the *Channel map's* edit box and click *Change*;

• Click *Download* to load all the modified parameters to the radio modem (note that the clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab).

AWLaunch - COM1 (00-00-04-00-81-33) Wretess Interface Advanced Wretess Interface Serial Interface Channel Specing Z5 ktz Serial Interface Serial Interf	Modem Dealer Configuration Blueto Channel map A or remove A Ch. Frequency 1 462,000,000 2 480,000,000 3 452,800,000	dd ange move v
Print Config. Load Con	452,800,000 Hz	ntify

Figure 10. Dealer Configuration

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Bluetooth

The *Bluetooth* tab is used to set/get Bluetooth specific parameters of the radio such as for enabling/disabling Bluetooth State (On or Off), Name, Pin code, Operating mode (Slave or Master), Destination address, etc. These parameters are optional and available only for radio modems with built in Bluetooth. Perform the steps below to set/get the mentioned parameters:

- Select the *Bluetooth* sub tab of the *Configurations* tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Modify the parameters of the Bluetooth as your setup needs;

• Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of Configurations tab).

atio	3	Advanced Wireless Interface	Serial Interface Modem De	aler Configuratio	on Bluetooth GSM/GPRS
ngij		Device address	Device settings		
Cor			State	Name	
ss			Off 👻		
ferenci			Pin code	Mode	(14 chars max)
Pre				Slave	Y
_			(8 chars max)		
ies				Destination	address
1 III			Discoverable Slave	00000000	0000
ē					
worki					
Net					
			Drink Canffe Lands	Config	Canfer Deveload Identi

Figure 11. Bluetooth

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

GSM/GPRS

The *GSM/GPRS* tab is used to set/get the GSM module's specific parameters of the radio such as Frequency Band, Pin code, Access Point Name, Login, and Password. These parameters are optional and available only for radio modems with built in GSM module. Perform the steps below to set/get the mentioned parameters:

- Select GSM/GPRS sub tab of Configurations tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Modify the parameters of GSM/GPRS as your setup needs;
- Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of Configurations tab).

igurations	Advanced Wireless Interface	Serial Interface Modem Dealer Configuration Bluetooth GSM/GPRS [
Conf		Frequency Band
ences		Pin code
Prefer		Access Point Name
_		
Julities		Login
_		Password
rking		
Netwo		
_		
		Print Config. Load Config. Save Config. Download Identify
		Close

 Wilsunch - COM1 (00-00-04-00-81-33)

 Seriel Interface
 Modem

 Desler Configuration
 Bluetooth

 GSM/GPRS
 RTN

 Active RTN service
 Host name

 Host port
 Password

 Autorun
 Image: Configuration in the service

 Mount pont
 NMEA

 Print Config.
 Load Config.
 Download
 Identify

Figure 13. RTN

Note: If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

RTN - Real Time Network

The *RTN* tab is used to set/get the Real Time Network specific parameters of the radio such as Active RTN service type (NTRIP or TCP), Host name, Host port, Mount point, Login, Password, etc. These parameters are optional and available only for radio modems with built in GSM module. Using Real Time network service, the radio modem connects to the specified RTN caster and starts receiving data. Perform the steps below to set/ get the mentioned parameters:

- Select the *RTN* sub tab of the *Configurations* tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Modify the parameters of RTN as your setup needs;

• Click *Download* to load all the modified parameters to the radio modem (note that clicking *Download* will load all the parameters containing in all sub tabs of the *Configurations* tab). **Note:** If you do not intend to change the settings from other tabs, click *Download* to download new settings into the radio modem.

Save/Load configuration file to/from PC

The AWLaunch software supports a feature to save and load configuration file to/from PC. This feature is used to save desired set of configuration parameters to a file and load them from PC to the radio when it is needed. If you already configured your radio modem and would like to save the configuration parameters to the PC then perform the steps below:

• Click Save Config. available at the bottom of the Configurations tab;

Configurations	Witeless Interface Advanced Witeless Interface Protocol Base List @ Remote ArWest Transceiver Years	Serial Interface Modem Dealer Configuration Bluetooth
Utilities Preferences	RE Channel Scanning (2) - 443,000,000 ▼ Prequency Channel Rx (2) - 443,000,000 ▼ Prequency Channel Tx (1) - 452,000,000 ▼ Frequency Pattern 0 ÷	RF Power 15 30 Misc Link Ld Repeater Scrambling 255 Frame msg Data msg Status msg
Networking		
	Print	Config. Load Config. Save Config. Download Identify

Figure 14. Save/Load configuration file

- Select the folder where you would like to save the file containing configuration parameters;
- Click Save.

• Now if you would like to load configuration parameters from PC to the radio modem then perform the steps below:

- Click *Identify* (not necessary if identification process has been completed successfully once);
- Wait until identification process is completed;
- Click Load Config. available at the bottom of the Configurations tab;

nfigura	Protocol	Modulation
Ē	Remote ArWest Transceiver	DQPSK I9.2 kbps
references	RE Channel	RF Pgwer 15 30
lities F	● Manual Frequency Channel Tx (1) - 462,000,000 ▼	Misc Link Id Repeater V Scrambling 255
, ,	Hopping Pattern D	rrame msg Data msg Status msg
letworking		
_		

Figure 15. Click Load Config.

- Browse for the file containing configuration parameters you would like to load and click *Open*;
- Click *Download* to load all the parameters to the radio modem.

Utilities

Download Firmware

To upgrade the firmware of radio modem, the following steps should be performed:

- Select the Utilities tab then go to the Download Firmware sub tab;
- Click *Identify* (not necessary if identification process has been completed successfully once);
- Wait until identification process is completed;
- Click *Browse* and select the firmware file which you would like to download to radio modem;
- Click *Download* (the process of firmware loading may take a few minutes);

• Wait until the firmware loading process is completed.

🔊 AW	Launch - COM1 (00-00-04-00-81-33)		×
rations	Download Firmware BERT Transmit BERT Receive Liband Status RTN utility		
nfigu	Eirmware file		
<u>ں</u>	\USER-ARWEST\Source Archive\ID74#HPT401\Source Codes and Firmware\Firmware\Release\FW_LJ		
Preferences	Downloading File	*	
Utilities			
Networking			Stop
_			Identify
			Close

Figure 16. Firmware loading process



900 Rock Avenue, San Jose, CA 95131, USA

> Phone: +1(408)770-1770 Fax : +1(408)770-1799

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