### How to upgrade NX510 firmware and software

### Prerequisites

Hardware: NX510SE system(PA-3, tablet and harness connection) or Desktop Software: AGNAV3.0 software Firmware: PA-3 firmware

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### Notes

- 1) Please ensure that the tablet has the internet before upgrading.
- 2) Upgrading the firmware firstly and then upgrading the software is required currently.
- 3) If upgrade the software online firstly by mistake, it may not be able to upgrade the firmware online due to the mismatch between software and firmware, so under this case, it is necessary to do a local upgrade with firmware file on the software interface to do firmware upgrade rather than online firmware upgrade, pls refer to <u>Part D</u> with more instructions.
- 4) With firmware online update, it is necessary to have tablet and PA-3 both with internet when it is with old software version, but with new software version, it is only necessary to have tablet with internet.
- 5) During firmware update, three lights are rolling circularly, then they will be all on shortly and system will reboot after firmware update is done. Update time is about 5 minutes usually, pls wait patiently and do not power off system or other operation.

### CHCN AV Steps

#### Part A. Firmware online upgrade

a) Pls switch to [Multi-Network Mode] on the [GNSS correction settings], then click [Apply];

$\leftarrow$ GNSS Correction Settings		
Data Link Channel Radio Frequ Radio Proto Channel Ba OTA Baud R Radio Power	Internal Radio Display Network Controller Network External Radio Multi-Network Mode 9600 0.5w Apply	

b) Go to [Setting] - [About] - [Upgrade] interface, click [PA-3 firmware online upgrade] to download and upgrade the firmware with the tablet network.

Software Version(26320433625)	3.8.1.2-0S.20220705
Firmware Version(3999907)	2.8.6.17
Flow Card	
Register	
Upgrade	>
Guidance	
contains FCC ID: XMR201903EG25	io133 0040 201 iG
contains FCC ID: XMR201903EG23	10133 0040201 36
grade Released software online upgrade	0013201 6
contains FCC ID: XMR201906E022 grade Released software online upgrade Beta software online upgrade	0096201 36 >
Contains FOC ID: XMR201905622 grade Released software online upgrade PA-3 firmware online upgrade	0046201 36 > > >
Contains FCC ID: XMR2015005623 Pgrade Released software online upgrade PA-3 firmware online upgrade PA-3 firmware local upgrade	0040201 30 > > > > > > > > > > > >
Contains FCC ID: XMR2015X0EG23 Pgrade Released software online upgrade Beta software online upgrade PA-3 firmware online upgrade PA-3 firmware local upgrade System online upgrade	0040201 /// // // // // // // // // // // // //
PA-3 firmware local upgrade PA-3 firmware local upgrade System online upgrade PA-3 firmware local upgrade	0043201 /// // // // // // // // // // // // //
Contains FCC Do XMR201500E023 Parade Released software online upgrade Beta software online upgrade PA-3 firmware local upgrade PA-3 firmware local upgrade System online upgrade MCU online upgrade External radio local upgrade	0043201 /// // // // // // // // // // // // //
Contains FCC Do XMR2019X0EC23  Parade Released software online upgrade PA-3 firmware online upgrade PA-3 firmware local upgrade System online upgrade MCU online upgrade External radio local upgrade External radio online upgrade	0043201 /// // // // // // // // // // // // //

# **CHCN**

a) Click [Released software online upgrade on the [Upgrade] interface;

Upgrade		
Released software online upgrade	>	
Beta software online upgrade		
PA-3 firmware online upgrade		
PA-3 firmware local upgrade		
System online upgrade		
MCU online upgrade		
External radio local upgrade		
External radio online upgrade		
Motor online upgrade		

b) Click [Upgrade] after the message box pops up.

÷

Software Up	grade		>
Software up	date to beta		
Firmware Up			
Firmware file	Upgrate Has New VersionAgNav-OS-3.8.3	2.20220909-Release-Android.apk	>
System upda		Next Time Upgrade	>
MCU upgrad	e		$\rightarrow$
External Rad	lio File Upgrade		
External Rad	lio Upgrade		
← Upgrade			
Software Up	AgNav3.0		>
Software up	Do you want to install an updat Your existing data will not be lo	te to this existing application?	>
Firmware Up	access.		>
Firmware file			>
System upd			>
MCU upgrad			>
External Rac			>
External Rac	CANCEL	INSTALL	>
			-
	AgNav3.0		****
	1		
	✓ App installed.		E

#### Part C. Firmware and software version check

a) After firmware and software updates, pls check if the version is correct and update is done successfully.

Software Version(26320433625)	3.8.2-OS.20220909
Firmware Version(3999907)	2.8.7.2T
Flow Card	
Register	
Upgrade	
Guidance	

#### Part D. Instruction with firmware local upgrade.

a) Ask technical engineer for the latest firmware and copy it into a U disk. For example 2.9.5.5 firmware version as below,



- b) Connect U disk to the tablet, then copy the file under the root directory on the tablet.
- c) Click [PA-3 firmware local upgrade] on the [Upgrade] interface;

÷	Upgrade	
	Released software online upgrade	
	Beta software online upgrade	
	PA-3 firmware online upgrade	
	PA-3 firmware local upgrade	
	System online upgrade	
	MCU online upgrade	
	External radio local upgrade	
	External radio online upgrade	
	Motor online upgrade	

d) Go to root directory and select the firmware bin file to upgrade the software. (When start the firmware local upgrade, the tablet will connect to the PA-3 controller WIFI automatically.)

#### Part E. Instruction with firmware webpage upgrade.

a) Ask technical engineer for the latest firmware and put it on the desktop of PC. (The file extension should be .bin). For example 2.9.5.5 firmware version as below,



b) Connect to PA-3'wifi named "GNSS-XXXXXXX"



c) Open Google browser and enter 192.168.1.1

		1	
🗊 Status	Position ×		
Position	Desition		DOR
<ul> <li>Activity</li> </ul>	Lathude: Longitude: Height: Type:	0°00.00000000°(South) 0°00.0000000°(West) -2.000 Searching	
	Satellite Used: 0Total GPS(0):		Satell
	GLONASS(0):		
	BDS(0):		
	GALILEO(0):		
	SBAS(0);		
Satellites	IRNSS(0):		
Receiver Configuration			
Data Recording	Receiver Clock		
A 1/0 Settlene	GPS Week:	2257	
M. Househalls	GPS Seconds:	474140	

# d) Go to Firmware---Firmware Update



e) Select the firmware file and click **Confirm**. Wait around 5 mins to finish the update.



#### Part F. Instruction with software local upgrade.

a) Ask technical engineer for the latest software apk file and copy it into a U disk. For example 3.8.2.7 software version as below,



b) Connect U disk to the tablet, then copy the file under the root directory on the tablet and click apk file to install



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