



# Release Notes for Xiegu X6200 firmware as of 2024-09-24

October 14<sup>th</sup>, 2024

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## About Radioddity

### **‘You, our friend and customer, are our focus’**

At Radioddity, our customers are important to us. As a customer, your time and money are important to you. When you buy radios online, you face a dilemma: buy from a reputable website at a high price, or try to save money by choosing a retailer that may not offer quality goods, service or advice. At Radioddity.com, you don't have to choose between low prices and a safe shopping experience. Whether you are a first-time shopper or an experienced radio amateur, we always do our utmost to ensure that you get the best possible value for money. Over the past few years, Radioddity has continuously strived to better meet the needs of wireless equipment buyers and has become a reliable partner. We do this by offering the highest quality products at an affordable price and by providing you with first-class support after purchase as well as out of warranty. Because as our customer, you deserve nothing less.

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[support@radioddity.com](mailto:support@radioddity.com)

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## 1 Firmware release notes

The following table lists the details that have been changed with new versions of the Xiegu X6200 firmware. Generally previous updates are included in the latest version.

**Note:** *Never update your radio if it is not really necessary, or in other words: **'Don't fix it if it's not broken'**! This cannot be emphasized often enough. To update the Xiegu X6200, only use the firmware that you can find on our support pages. Before carrying out an update, make sure that the firmware is still available for download on our support page. All firmware updates for the Xiegu X6200 are supplied with 'Release Notes'.*

**Please carefully read the 'Release Notes' and all documents contained in the firmware archives!**

### 1.1 Operating System V1.0.3 & firmware V1.0.3 as of September 24<sup>th</sup>, 2024

revision	Changes	released
APP 1.0.3 Sep 24 2024 20:37:35	<ul style="list-style-type: none"><li>Adjusted the built-in charger algorithm and fixed the problem that the green light still flashes on some machines after the battery already being fully charged.</li><li>Fixed the bug that the COMPression switch is inverted (as with V1.0.1). <sup>*)</sup></li><li>Adjusted the ALC control algorithm.</li><li>Optimized the NR algorithm and improved the noise reduction performance.</li><li>Optimized the AGC algorithm and improved the signal-to-noise ratio.</li></ul>	2024-10-14
BASE 1.0.3 Sep 24 2024 20:35:14	<ul style="list-style-type: none"><li>Fixed the timing bug of the automatic CW key.</li><li>Updated DFL filter settings for CW. <sup>*)</sup></li><li>Fixed the bug that there is no sound when the CW side tone volume is adjusted to above 63.</li><li>Fixed various bugs of the CI-V implementation.</li><li>Adjusted the interaction logic of the WLAN submenu for easier use.</li><li>Added a 'MEM TO VFO' softkey to the 'MEMORY' submenu for assigning a previously saved channel to the VFO.</li><li>Added initial functionality for planned Bluetooth support of mobile phone app FT8CN.</li></ul>	

<sup>\*)</sup> Those improvements have not been mentioned in the original Xiegu release notes.

## 1.2 Operating System V1.0.1 & firmware V1.0.1 as of August 1<sup>st</sup>, 2024

revision	Changes	released
APP V1.0.1 Jul 20 2024, 17:22:15	<ul style="list-style-type: none"><li>• Adds transceiver audio equalizer</li><li>• Adds display adjustment options, bandwidth/spectrum/waterfall color, etc.</li><li>• Adds the spectrum center line switch, the user can choose to turn those on or off</li><li>• Adds MFK variable step</li><li>• Adds voice compression</li><li>• Adds automatic screen backlight dimming/off</li><li>• Adds CW decoder threshold adjustment</li><li>• Adds the waterfall map translation switch, the waterfall map will translate with the frequency change after opening</li><li>• Optimizes frequency spectrum display speed, more smooth</li></ul>	2024-08-01
FIRMWARE V1.0.1 <b>Jul 26 2024, 14:00:49</b>	<ul style="list-style-type: none"><li>• Optimizes spectrum and waterfall automatic level, better signal contrast, easier to see clearly</li><li>• Optimizes the function key operation logic (some switch parameters can be adjusted directly by pressing the button without turning the MFK knob, easy to operate)</li><li>• Fixes some display content display incomplete issue</li><li>• Fixes the power alarm bug</li><li>• Fixes the CW auto key bug</li><li>• Fixes the transmit power control bug (voice plosive sound, such as "p", "t", etc., is prone to make popping sound)</li></ul>	

**This version** does replace the version that had been released July 23rd, 2024.

### 1.3 Operating System V1.0.1 & firmware V1.0.1 as of July 20<sup>th</sup>, 2024

revision	Changes	released
APP V1.0.1 Jul 20 2024, 17:22:15	<ul style="list-style-type: none"><li>• Adds transceiver audio equalizer</li><li>• Adds display adjustment options, bandwidth/spectrum/waterfall color, etc</li><li>• Adds the spectrum center line switch, the user can choose to turn those on or off</li><li>• Adds MFK variable step</li><li>• Adds voice compression</li><li>• Adds automatic screen backlight dimming/off</li><li>• Adds CW decoder threshold adjustment</li><li>• Adds the waterfall map translation switch, the waterfall map will translate with the frequency change after opening</li></ul>	2024-07-23
FIRMWARE V1.0.1 Jul 20 2024, 17:21:45	<ul style="list-style-type: none"><li>• Optimizes frequency spectrum display speed, more smooth</li><li>• Optimizes spectrum and waterfall automatic level, better signal contrast, easier to see clearly</li><li>• Optimizes the function key operation logic (some switch parameters can be adjusted directly by pressing the button without turning the MFK knob, easy to operate)</li><li>• Fixes some display content display incomplete issue</li><li>• Fixes the power alarm bug</li><li>• Fixes the CW auto key bug</li><li>• Fixes the transmit power control bug (voice plosive sound, such as "p", "t", etc., is prone to make popping sound)</li></ul>	

**This version has been officially revoked.**

### 1.4 Operating System V1.00 & firmware V1.00

Version	Changes	Released
APP: V1.0.0 May 30 2024, 10:54:39 FIRMWARE: V1.0.0 MAY 29 2024, 10:13:38	<ul style="list-style-type: none"><li>• This is the initial version</li></ul>	2024/05/30

## 2 Updating the Xiegu X6200 firmware

The Xiegu X6200 firmware is normally updated in three steps:

### Step 1: Prepare a microSD memory card

First, prepare a microSD memory card that can be used to upgrade the Xiegu X6200 operating system.

### Step 2: Update the Xiegu X6200 operating system (APP)

Update the application software (APP) by booting the radio from the prepared microSD memory card.

### Step 3: Update the baseband firmware of the Xiegu X6200 (BASE)

The updated system is started and the SYSTEM/FIRMWARE UPGRADE function used to update the baseband firmware (BASE).

**Note:** *The Xiegu X6200 must be connected to a stable 13.8V power supply during the entire update process in order to update the firmware. Before you start the update process, turn off the radio and remove the battery pack. After the update has been completed (both steps), turn off the radio again and re-insert the battery pack.*





### 2.1 Preparing the microSD memory card

You will need:

1. A microSD memory card of at least 4 GB capacity
2. A device to read/write a microSD/flash memory card (if necessary, with an adapter if the device is intended for full-sized SD memory cards)
3. A PC with Windows (7/10/11), Linux or MAC operating system – For these instructions a PC running Windows 11 was used
4. A program to write the Firmware update image to the microSD memory card. On the following pages we use 'Rufus' for this purpose. You can get Rufus at the following URL: <https://rufus.ie/>. Other operating systems such as Linux or MacOS offer similar programs for writing binary images to a microSD memory card, such as balena etcher (<https://etcher.balena.io/>).

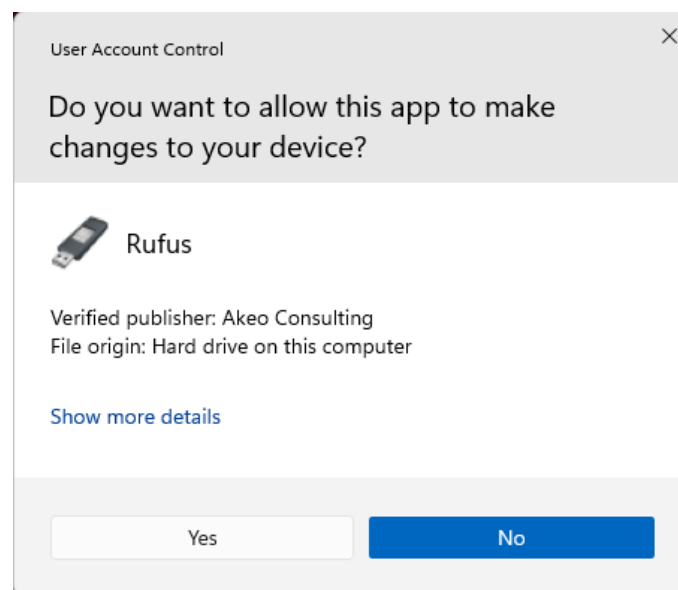
### 2.1.1 Writing the Xiegu X6200 firmware to the microSD card

1. First unpack the firmware update archive into a directory of your choice on your PC.

Name	Anderungsdatum
 2024-10-14 Xiegu X6200 update V1.0.3.pdf	14.10.2024 08:18
 readme.1st	14.10.2024 08:19
 ReleaseNote-240924001.txt	25.09.2024 08:51
 sdcard.img	24.09.2024 14:40

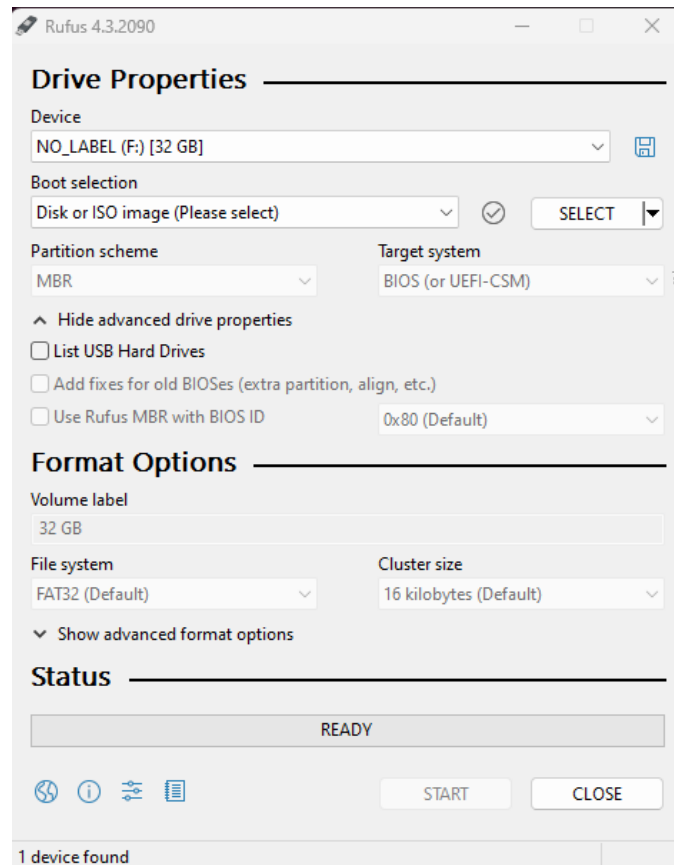
2. Insert an empty microSD memory card (with adapter if needed) into the slot of your PC's read/write device or attached card reader.
3. Start the program 'Rufus' by double-clicking on its executable (exe) file (you will usually find this in the 'Tools' subdirectory of the update archive).

You may first have to confirm a security prompt from your operating system with 'Yes'.





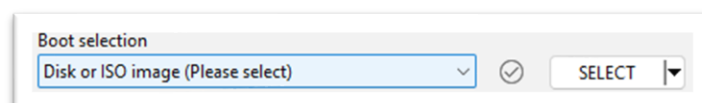
4. You will now see the user interface of the 'Rufus' program.



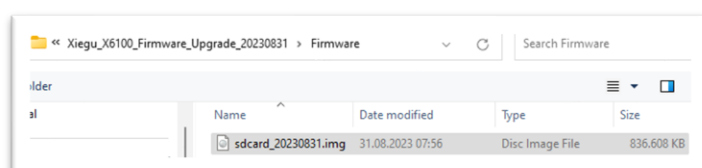
5. Check that the inserted microSD card has been recognized by the program via operating system.



6. Check whether the correct boot type has been selected.

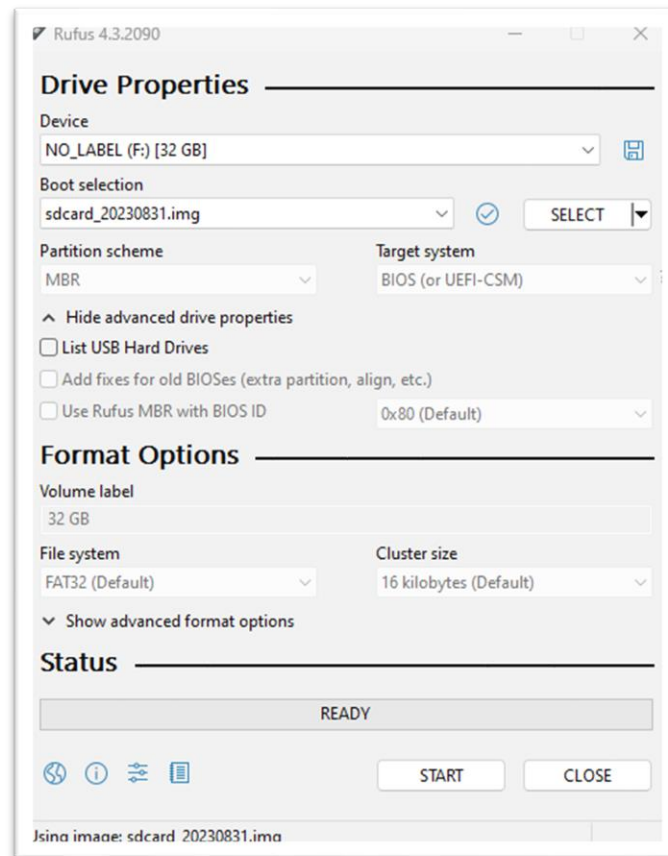



7. Next click on the **SELECT** button using the left mouse button and navigate to the directory in which you previously unpacked the update archive and then to the corresponding subdirectory of the firmware image file.

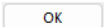


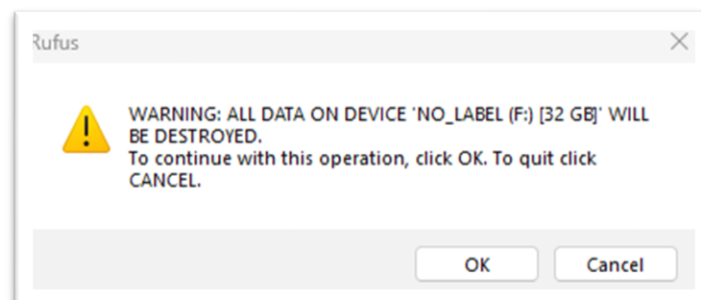
8. Click on the firmware image file name and then select 'Open'

9. The file name of the firmware file is now displayed under 'Boot selection'.

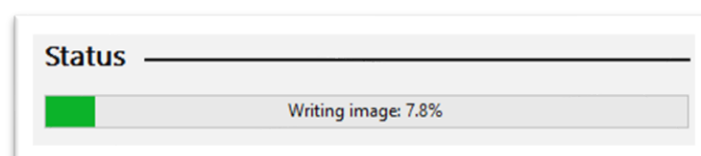




10. Now click on the  button to start the process of writing to the microSD memory card.


11. A security prompt appears first. This must be acknowledged by clicking on .

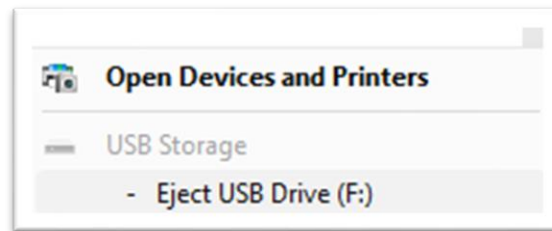


12. The selected firmware is now written to the microSD memory card. The progress is displayed via a status bar.

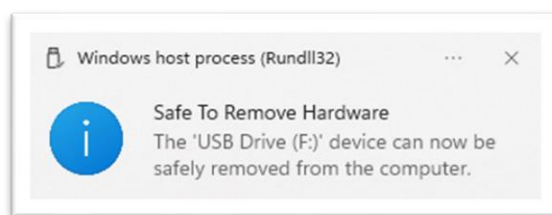


13. As soon as the process has been successfully completed, the status  appears. You can now exit the program by clicking on .

14. Before you remove the memory card from the PC, click  on in the status bar of your operating system and then select the drive of the microSD memory card and click on 'Eject'.



15. The microSD memory card may only be removed when you are prompted to do so.

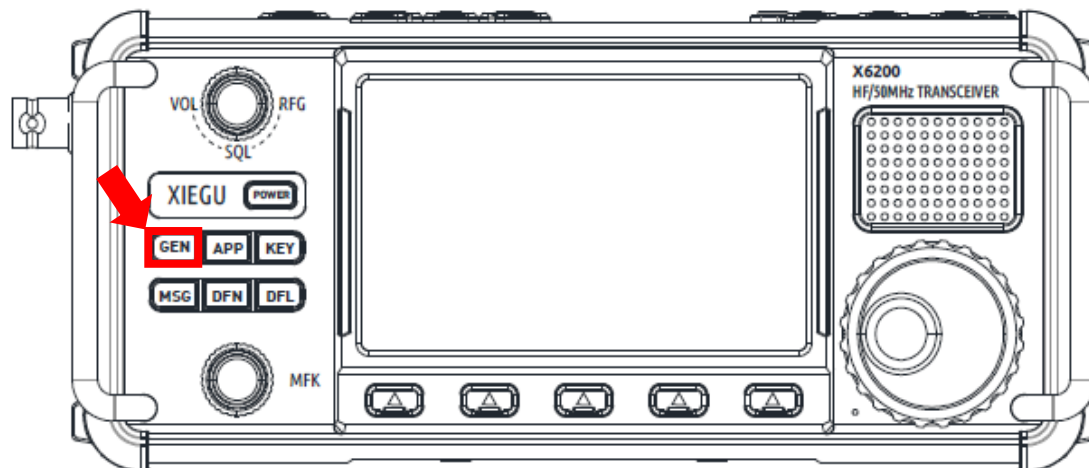


**Note:** *Never remove the microSD memory card from the PC without first 'ejecting' it.*

## 2.2 Updating the Xiegu X6200 operating system (APP)

First of all, check the current version of the APP. FIRMWARE, FPGA and HARDWARE and make a note of the current version string values.

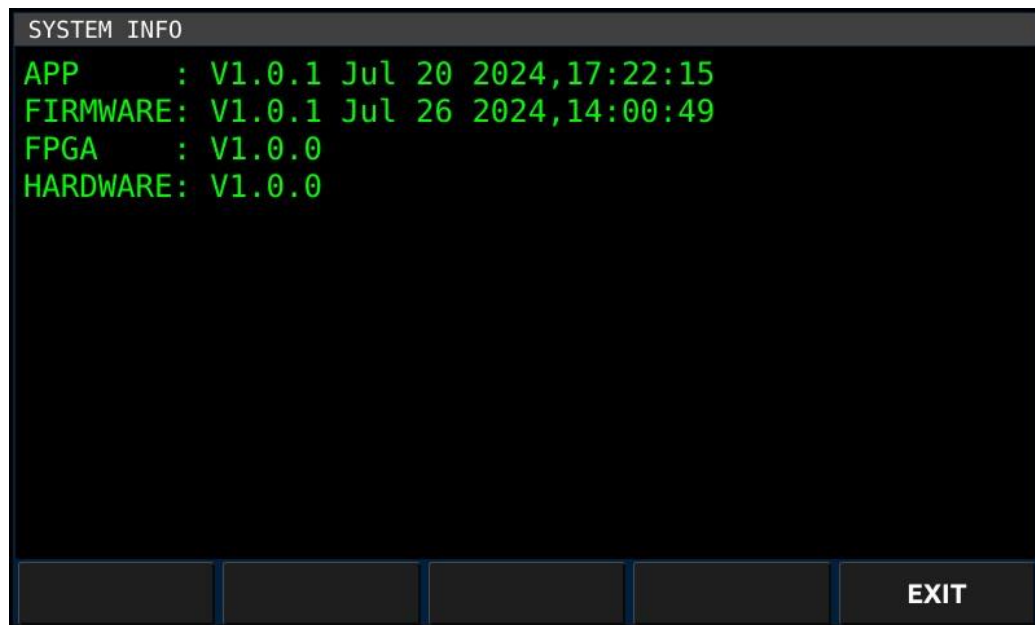
1. After short pressing the [GEN] button, the general/default menu softkeys are displayed at the bottom of the LCD.



2. Short press the 'SYSTEM' softkey to call up the corresponding submenu.
3. Now select the 'SYSTEM INFO' item using the MFK rotary control (bottom left of the LCD) and confirm your selection by short pressing the MFK rotary control in.

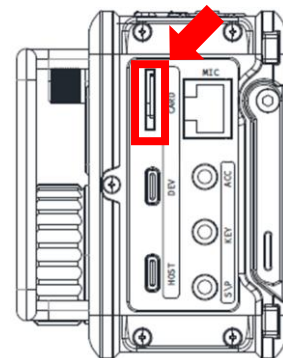




- The LCD now shows the current version numbers of the operating system (APP) and firmware (FIRMWARE).



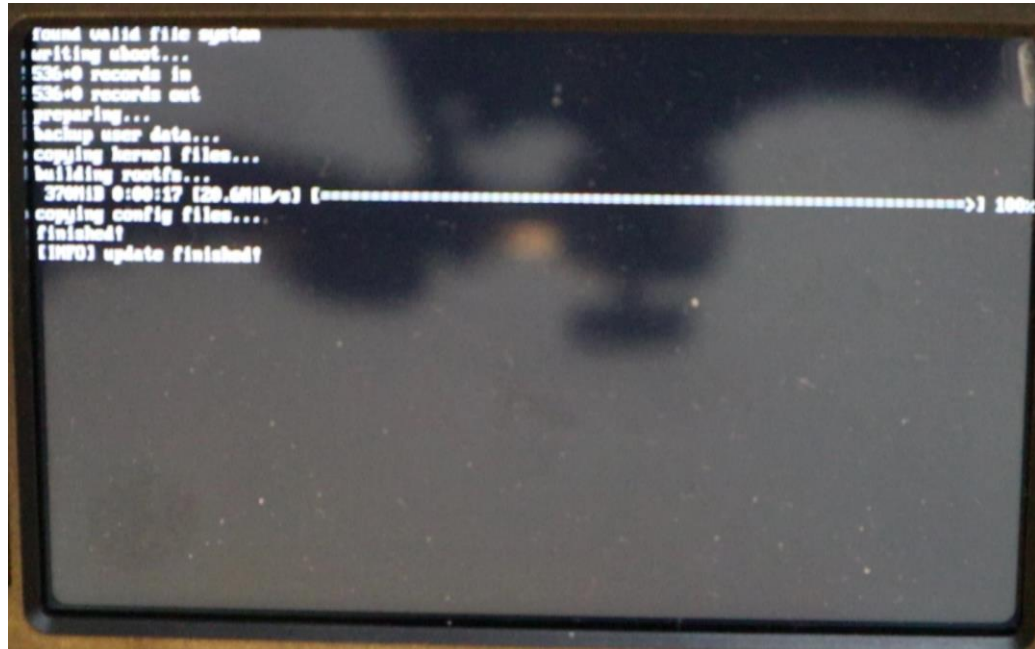
- Make a note of all four version strings.
- Turn off the Xiegu X6200.
- Make sure that the Xiegu X6200 is completely switched off for at least 30 seconds before inserting the microSD memory card you have prepared into the slot on the right-hand side of the Xiegu X6200. The 8 contact fingers of the microSD memory card must point towards the LCD display.

The slot for the microSD memory card has a mechanism similar to a ballpoint pen. If you carefully push the microSD memory card in as far as it will go, it will then come out again by about 2.5 mm. This is the condition required for the microSD memory card to be read by the Xiegu X6200. To remove the card, push the microSD memory card in again as far as it will go, the microSD memory card will come out 6.5 mm and you can then simply remove it.



- Insert the microSD memory card into the microSD slot on the right-hand side of the Xiegu X6200.
- Remove the battery pack
- Connect the Xiegu X6200 to an external power supply of 13.8V (12V min). The Xiegu Label besides the power button will start flashing red (because there is no battery pack installed).
- Press the [POWER] button  until the Xiegu logo is seen on the screen. The Xiegu label left besides the [POWER] button  lights up solid green although the battery pack is missing.

12. The normal waterfall display will not appear, rather after about 15 seconds, the operating system (APP) starts to update itself automatically without the need for manual intervention.
13. During the APP update process various status information is output on the Xiegu X6200.



14. After about 45 seconds, the APP update process is complete and the shutdown message '[Info] Update finished!' is displayed on the LCD, after which the Xiegu X6200 shuts down automatically.
15. **Wait** until the Xiegu Label besides the power button again starts flashing red.

**Note:** Do not remove power or press any key on the Xiegu X6200. It takes at least 3 minutes until the Xiegu label left besides the [POWER] button starts flashing red again. Please be patient.



16. The microSD memory card should now be removed. To do this, press the microSD memory card fully in once more and it will bounce back and stick out about 6.5 mm. You can now remove the microSD memory card.
17. The update of the operating system (APP) is now complete. This completes the first update step.
18. Disconnect the external power supply from the Xiegu X6200.

**Note:** Do not forget to remove the microSD memory card from the Xiegu X6200 after updating the operating system. Otherwise, the update process will run again the next time you start the Xiegu X6200.

### 2.3 Updating the firmware of the Xiegu X6200 (FIRMWARE)

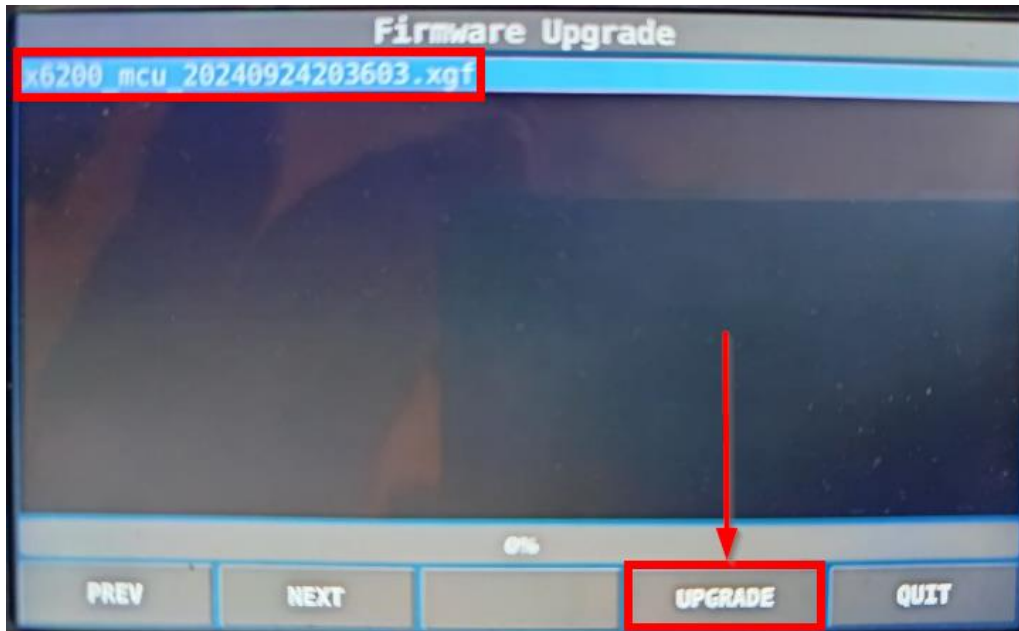
After updating the operating system (APP), the firmware must now be updated.


**Note:** The Xiegu X6200 must be connected to a stable 13.8V power supply during the entire update process in order to update the firmware.

1. Make sure that no microSD card is inserted in the slot on the right-hand side of the Xiegu X6200.
2. Ensure the battery pack is still removed.
3. Connect the Xiegu X6200 to an external power supply of 13.8V (12V min).
4. Press the [POWER] button  until the Xiegu logo is seen on the screen. The label left besides the [POWER] button  lights up solid green although the battery pack is missing.
5. Then press the following in succession: [GEN] button → 'SYSTEM' softkey to access the system settings menu.
6. Select 'FIRMWARE UPGRADE' using the inner or outer MFK rotary knob and confirm your selection by a short press of the MFK rotary knob in.




7. A list of possible baseband firmware versions appears under the heading 'Firmware upgrade'. As a rule, however, there will only be one version (it was loaded as part of the APP upgrade in the last section). If there are multiple options, select the desired version from a list by pressing the 'PREV' and 'NEXT' softkeys.



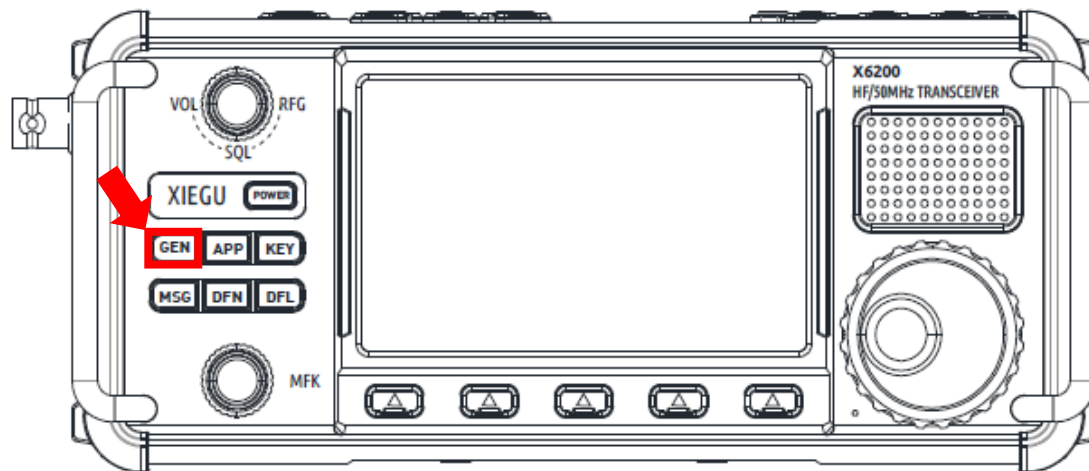
8. Confirm your selection by pressing the softkey labeled 'UPGRADE'.
9. Within a few seconds, the following will appear in the title bar one after the other
  - Firmware Upgrade: Erasing Flash
  - Firmware Upgrade: Writing Flash
  - Firmware Upgrade: Done
10. Press the softkey marked 'QUIT'.
11. Press the softkey marked 'EXIT'.
12. Press the [POWER] button  until the display turns dark and you only see a small, blinking underline cursor in the upper left corner of the screen.
13. Wait until the Xiegu Label besides the power button again starts flashing red.

**Note:** Do not remove power or press any key on the Xiegu X6200. It takes at least 3 minutes until the Xiegu label left by the [POWER] button starts flashing red again. Please be patient.

14. Only when the logo is flashing red, press the [POWER] button  until the Xiegu logo is seen on the screen. A normal startup should now follow.



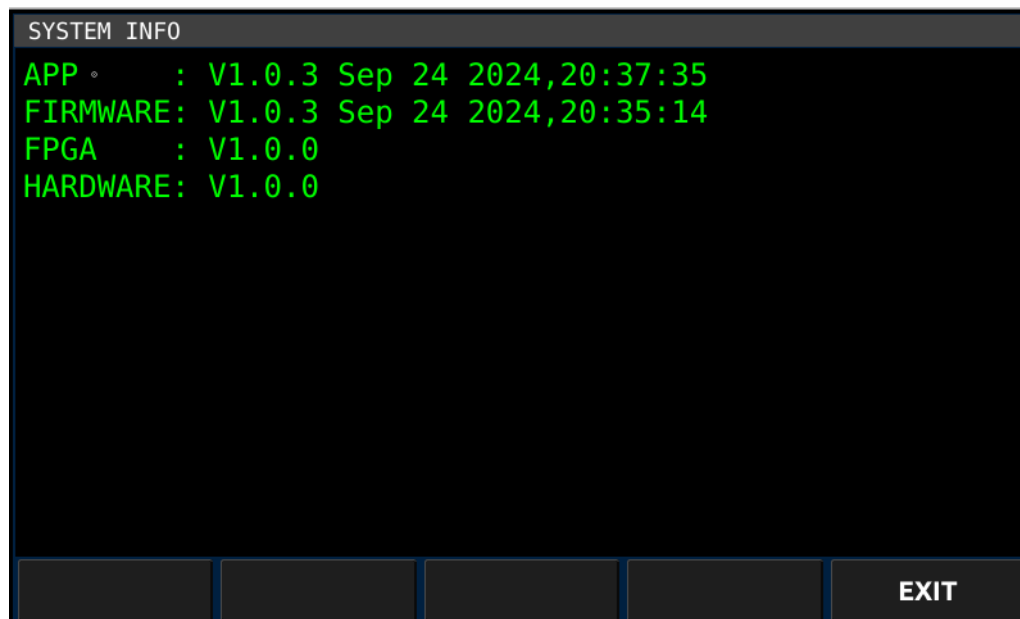
15. To check whether the firmware update was successful, short press the [GEN] button, the general/default menu softkeys are displayed at the bottom of the LCD.



16. Short press the 'SYSTEM' softkey to call up the submenu.
17. Now select the 'SYSTEM INFO' item using the MFK rotary control (bottom left of the LCD) and confirm your selection by a short press in of the MFK rotary control.



18. The LCD now shows both, the version of the operating system (APP) and the version of the firmware (FIRMWARE). (HARDWARE and FPGA versions will not change during this process).



19. Check is the version of the operating system (APP) and the version of the firmware (FIRMWARE) correspond with the update package version numbers.
20. Finally perform a FACTORY RESET ([GEN] → 'SYSTEM' → 'FACTORY RESET') in order to put the radio into a standard configuration avoiding any side-effects from updating the firmware.
21. Turn off the Xiegu X6200.
22. Reinsert the battery pack on the Xiegu X6200.

**This completes the update process.**

For older firmware versions of the Xiegu X6200, please visit our support area at <https://radioddity.com/pages/xiegu-download>.

**Notes:** *Never install any firmware not originating from Radioddity or Xiegu. Always check the availability of the update archive on the Radioddity support page for the Xiegu X6200 prior to performing any update.*

### 3 Where to find further information?

On the Internet you will find a variety of sources with information about the Xiegu X6200. When watching videos make sure that the Xiegu X6200 in the video is at the same firmware level as yours (features can change and bugs may be fixed between firmware versions).

#### 3.1 Xiegu-X6200 group on groups.io

All users of the Xiegu X6200 also find valuable help via the corresponding Xiegu X6200 group within groups.io. Visit <https://groups.io/g/xiegu-x6200> to join the Xiegu-X6200 group with its increasing number of members. Make sure your 'Display name' states either your first + last name or your first name + callsign.

#### 3.2 Radioddity support area

Please note that you can find all firmware, software and user manuals in the support section of our official Radioddity website by following these steps:

<https://www.radioddity.com/> → Support → Xiegu → X6200

For the Xiegu X6200, the resulting support page looks something like this:



As soon as a new file is available (e.g., firmware updates, updated manuals or others), these files will be published in our support area.

If you do find any bug in the radio's firmware, our manual or if you are missing a feature, you would have expected, write an email to [support@radioddity.com](mailto:support@radioddity.com). In general, the firmware-updates for your Xiegu X6200 are free of charge. Using a firmware not originating from Xiegu may void your warranty.



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<https://www.youtube.com/c/Radioddityradio>

We would like to thank all Radioddity customers for their constructive feedback.

If you find an error in the firmware of the Xiegu X6200 or in this documentation, or if you miss a function that you would have expected, or even if a detail has not been described to the expected extent, please feel free to write a message to [support@radioddity.com](mailto:support@radioddity.com). In general, firmware updates for your Xiegu X6200 are free of charge. The use of non-Xiegu firmware for this radio may invalidate the warranty.