

AUTOPILOT

FIRMWARE UPDATE GUIDE



PRODUCT CODE = MAK-001

REVISED: Oct 3rd, 2025



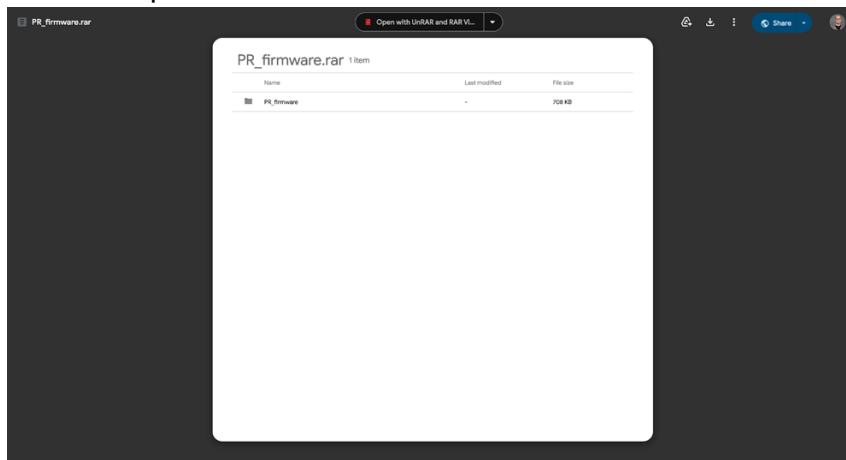
This guide is an overview of the firmware update procedure for AutoPilot.

PREPARE THESE ITEMS

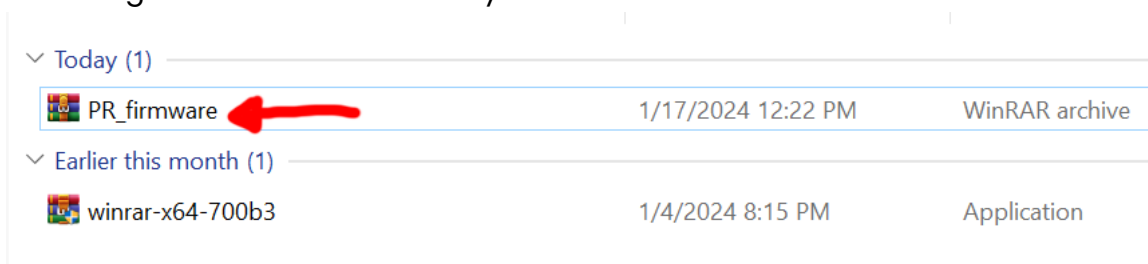
- AutoPilot
- Wireless Remote
- USB-A to USB-A cable
- USB-C to USB-A cable
- PC running Windows
- AutoPilot firmware update email from Performing Rigs

UPDATE PROCEDURE

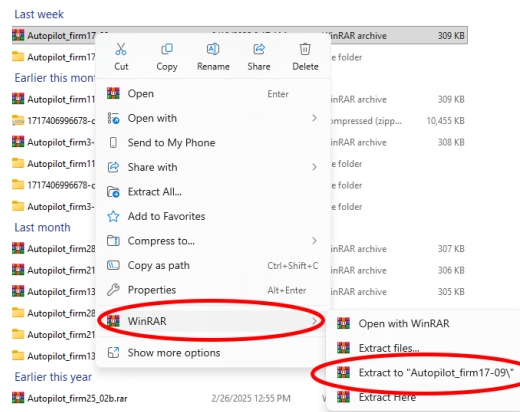
- 1) First make sure you have a PC with software installed that can extract .rar files
 - a) There are many extraction softwares available, but we use [WinRAR](#)
 - i) [Here is a video for installing WinRAR \(very easy\)](#)
- 2) Plug the device you are updating (AutoPilot or Wireless Remote, only one at a time) into your computer via the included USB cable
- 3) Open the AutoPilot Firmware Update email and click the Google Drive link to the updater package
- 4) After you click the link, you should see a window similar to the below image. Download the entire firmware compressed folder



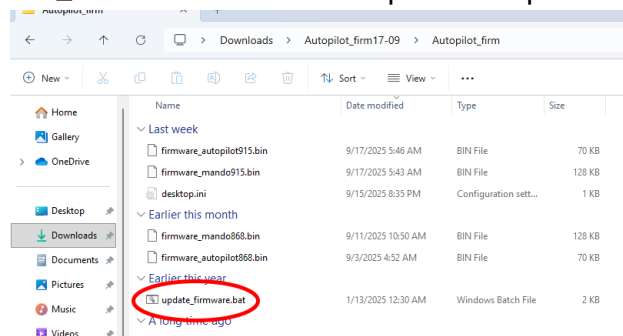
- 5) After the .rar folder is downloaded, you need to extract the files
 - a) First navigate to the download in your file browser



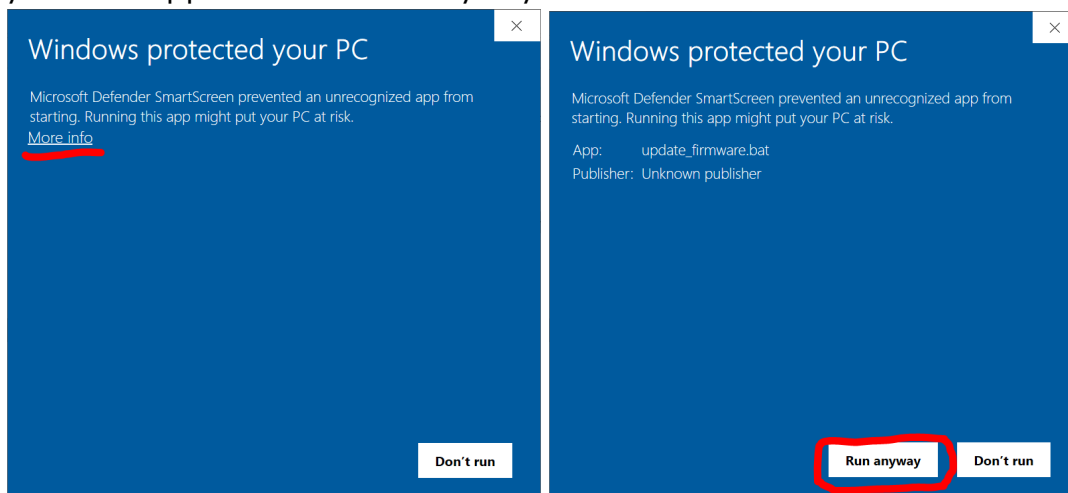
- b) Next, right-click and extract the file. Selecting “Extract to “PR_firmware\”” will create a folder in the same location as the compressed file, or you can define the location using the “Extract files...” command.



- 6) Open the extracted folder you have just created
- a) *NOTE: Inside the folder, be sure not to alter the file structure or file names*
 - b) *NOTE 2: Be sure the device you are updating (Pilot or Wireless Remote) is connected to your computer via the included USB cable **PRIOR TO** running the “update_firmware” program.*
- 7) Double-click the “update_firmware.bat” file to open the updater.



- 8) On most Windows machines, you will probably meet some resistance before opening the program. If you encounter the prompt seen below, click “More info” to make the “Run Anyway” button appear. Click “Run Anyway”.



You should now be in the Firmware Updater and see the window on the next page.

```
C:\WINDOWS\system32\cmd. X + v

*****
*****
* NOXON Firmware Uploader **
*****
*****

Connect the device you wish to update to a free USB port in your computer
WARNING: Be careful not to have connected any other NOXON product to the computer

1.- Remote controller EU band (868 Mhz)
2.- Remote controller North and South America band (915 MHz)
3.- AUTOPILOT EU band (868 MHz)
4.- AUTOPILOT North and South America band (915 MHz)

Enter the number of the firmware you wish to upload: 2
```

UPDATING FIRMWARE ON WIRELESS REMOTE

- 9) Connect the Remote to your PC using the included USB Cable
 - a) The remote should display a charging status when connected
- 10) Enter the number that applies to your region, then press "Return/Enter"
 - a) If in Europe or the UK, type "1"
 - b) If in North or South America, type "2" (pictured above)
- 11) After pressing "Return/Enter" you should see the following screen, with a countdown. The update will automatically run after 5 seconds, or you can press "Return/Enter" to make it run immediately

```
C:\WINDOWS\system32\cmd. X + v

Connect the device you wish to update to a free USB port in your computer
WARNING: Be careful not to have connected any other NOXON product to the computer

1.- Remote controller EU band (868 Mhz)
2.- Remote controller North and South America band (915 MHz)
3.- AUTOPILOT EU band (868 MHz)
4.- AUTOPILOT North and South America band (915 MHz)

Enter the number of the firmware you wish to upload: 2.
Default to 7 data bits.
Default to even parity.

Status for device COM5:
-----
Baud:      1200
Parity:     Even
Data Bits:  7
Stop Bits:  1
Timeout:    OFF
XON/XOFF:   OFF
CTS handshaking: OFF
DSR handshaking: OFF
DSR sensitivity: OFF
DTR circuit:  ON
RTS circuit:  ON

Waiting for 4 seconds, press a key to continue ...
```

- 12) As the update is executing, you will see many lines of text will scroll through the screen.
 - a) Please be sure to keep your device connected for the entire process.

13) When the update completes successfully, you will see the following screen

```
C:\WINDOWS\system32\cmd. X + v
[=====] 95% (243/255 pages)checksumBuffer(start_addr=0x22600, size=0x200) = 5db9
read(addr=0x22600,size=0x200)
[=====] 95% (244/255 pages)checksumBuffer(start_addr=0x22800, size=0x200) = 2bd2
read(addr=0x22800,size=0x200)
[=====] 96% (245/255 pages)checksumBuffer(start_addr=0x22a00, size=0x200) = 4903
read(addr=0x22a00,size=0x200)
[=====] 96% (246/255 pages)checksumBuffer(start_addr=0x22c00, size=0x200) = 9115
read(addr=0x22c00,size=0x200)
[=====] 96% (247/255 pages)checksumBuffer(start_addr=0x22e00, size=0x200) = 76f
read(addr=0x22e00,size=0x200)
[=====] 97% (248/255 pages)checksumBuffer(start_addr=0x23000, size=0x200) = 2d12
read(addr=0x23000,size=0x200)
[=====] 97% (249/255 pages)checksumBuffer(start_addr=0x23200, size=0x200) = 7585
read(addr=0x23200,size=0x200)
[=====] 98% (250/255 pages)checksumBuffer(start_addr=0x23400, size=0x200) = af0c
read(addr=0x23400,size=0x200)
[=====] 98% (251/255 pages)checksumBuffer(start_addr=0x23600, size=0x200) = 7472
read(addr=0x23600,size=0x200)
[=====] 98% (252/255 pages)checksumBuffer(start_addr=0x23800, size=0x200) = b824
read(addr=0x23800,size=0x200)
[=====] 99% (253/255 pages)checksumBuffer(start_addr=0x23a00, size=0x200) = 0
read(addr=0x23a00,size=0x200)
[=====] 99% (254/255 pages)checksumBuffer(start_addr=0x23c00, size=0x40) = 0
read(addr=0x23c00,size=0x200)
[=====] 100% (255/255 pages)
Verify successful
Done in 2.160 seconds
writeWord(addr=0xe000ed0c,value=0x5fa0004)
Upgrade completed
Press intro to exit...]
```

14) “Press intro to exit...” Intro is equivalent to “Return/Enter”. Press “Return/Enter” and the Firmware Updater window will close.

UPDATING FIRMWARE ON AUTOPILOT

15) Connect AutoPilot to your PC with the included USB cable.

16) Repeat step 6 (and 7, if necessary) to open the “update_firmware” program.

17) You should now be in the Firmware Updater and see the window below.

```
*****
*****
** NOXON Firmware Uploader **
*****
*****

Connect the device you wish to update to a free USB port in your computer
WARNING: Be careful not to have connected any other NOXON product to the computer

1.- Remote controller EU band (868 Mhz)
2.- Remote controller North and South America band (915 MHz)
3.- AUTOPILOT EU band (868 MHz)
4.- AUTOPILOT North and South America band (915 MHz)

Enter the number of the firmware you wish to upload 4|
```

18) With AutoPilot connected to your PC, enter the number that applies to your region and press “Return/Enter”

a) If in Europe or the UK, type “3”

b) If in North or South America, type “4” (pictured above)

- 19) After pressing "Return/Enter" you should see the following screen, with a countdown. The update will automatically run after 5 seconds, or you can press "Return/Enter" to make it run immediately

```
C:\WINDOWS\system32\cmd. X + v

WARNING: Be careful not to have connected any other NOXON product to the computer

1.- Remote controller EU band (868 Mhz)
2.- Remote controller North and South America band (915 MHz)
3.- AUTOPILOT EU band (868 MHz)
4.- AUTOPILOT North and South America band (915 MHz)

Enter the number of the firmware you wish to upload:4
Default to 7 data bits.
Default to even parity.

Status for device COM5:
-----
Baud:          1200
Parity:        Even
Data Bits:     7
Stop Bits:     1
Timeout:       OFF
XON/XOFF:      OFF
CTS handshaking: OFF
DSR handshaking: OFF
DSR sensitivity: OFF
DTR circuit:   ON
RTS circuit:   ON

Waiting for 5 seconds, press a key to continue ...
```

- 20) As the update is executing, you will see many lines of text will scroll through the screen

a) Please be sure to keep your device connected for the entire process

- 21) When the update completes successfully you will see the following screen

```
C:\WINDOWS\system32\cmd. X + v

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read(addr=0x23400, size=0x200)
[=====] 98% (251/255 pages)checksumBuffer(start_addr=0x23600, size=0x200) = 7472
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[=====] 99% (254/255 pages)checksumBuffer(start_addr=0x23c00, size=0x40) = 0
read(addr=0x23c00, size=0x200)
[=====] 100% (255/255 pages)
Verify successful
Done in 2.160 seconds
writeWord(addr=0xe00ed0c, value=0x5fa0004)
Upgrade completed
Press intro to exit...
```

- 22) The screen now reads "Press intro to exit...". Intro is equivalent to "Return/Enter". Press "Return/Enter" to close the Firmware Updater window.

UPDATES COMPLETE!

Need Help?

Please contact us directly with questions – we are happy to help!

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