



Upgrading the ZeroNoise Wired Wireless (WW) System to a new firmware version

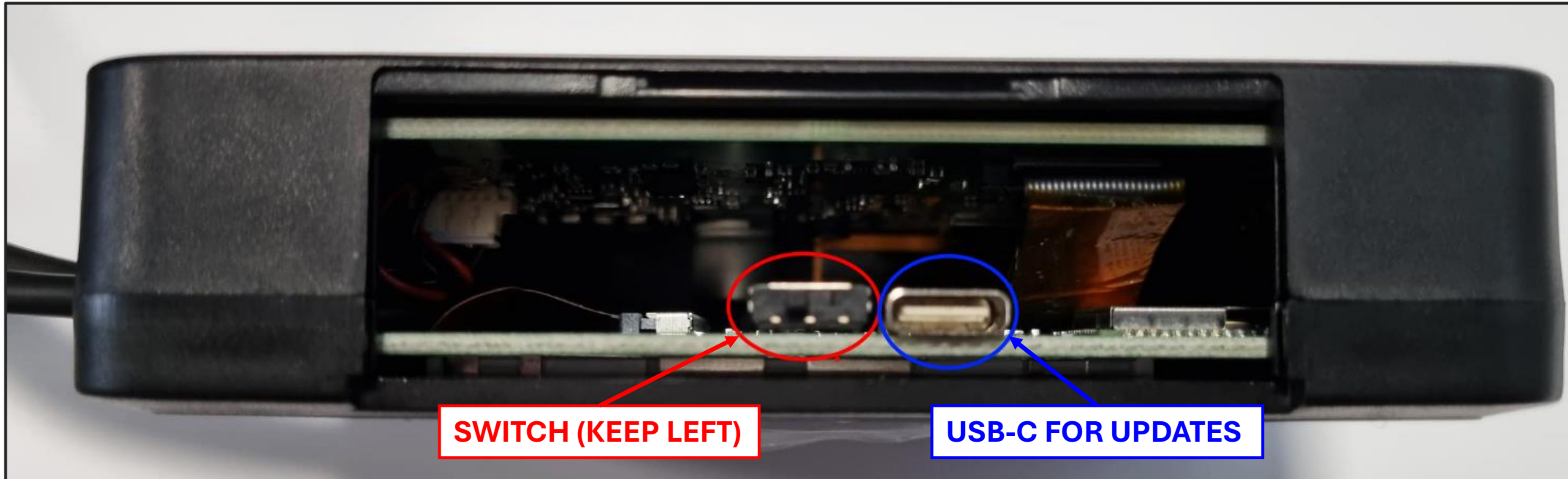


Scan for full product
instructions

Short guide for firmware update

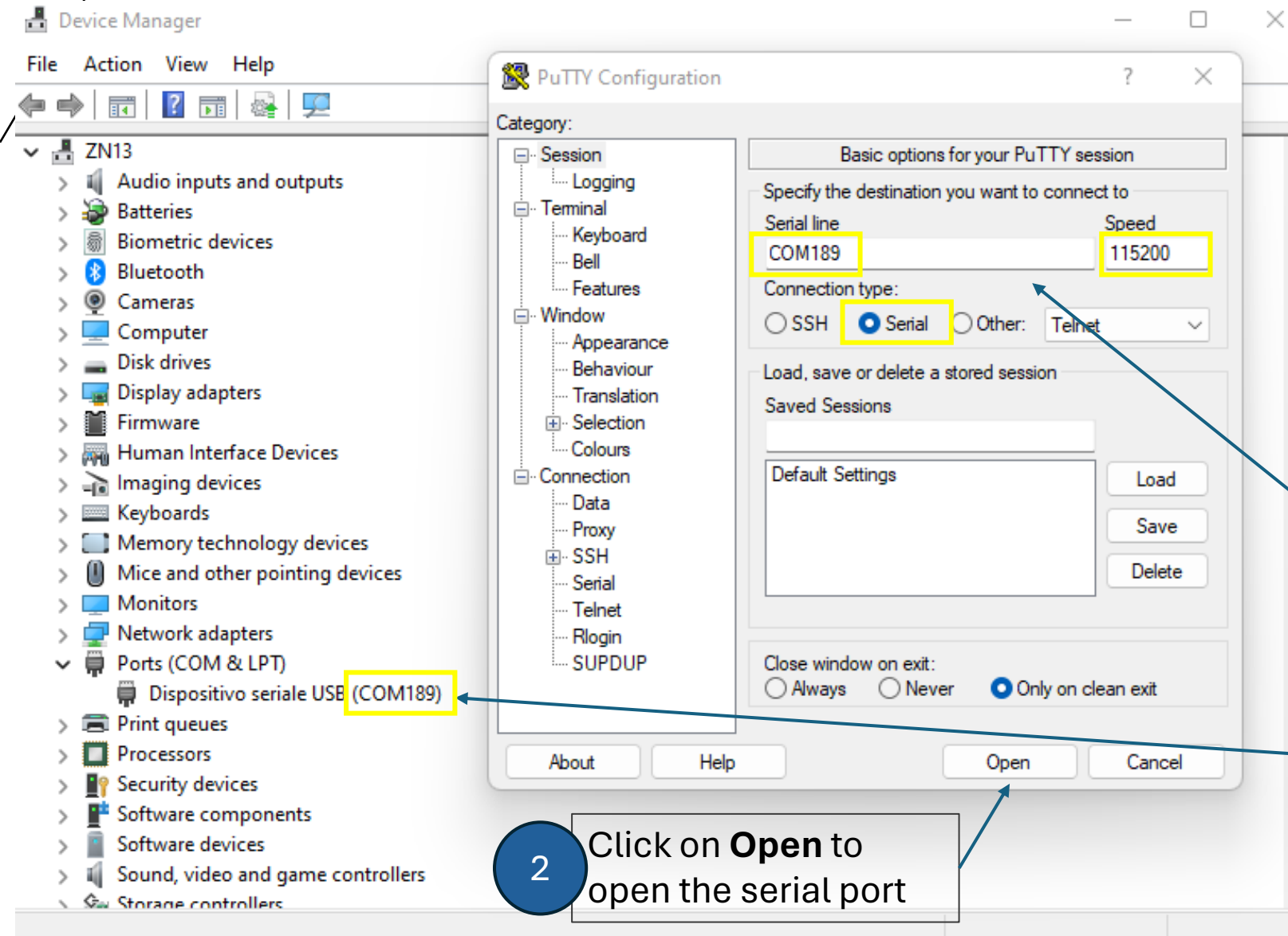
- When a new firmware is released for bug fixing and general improvements of the product, this simple procedure can be followed to upgrade the WW System components
- This short guide shows how to update the intercom and the units on the helmets
- What you will need to perform the required steps:
 - A PC and a USB-A to USB-C cable
 - To update the display only: you will need to use a serial port program like PuTTY and serial commands
 - Most common case:
 - If you have a Windows PC, download this [installer](#) or use the [Microsoft Store](#)
 - Otherwise, you can download a different version of PuTTY from [this download page](#) (see “Package files” section)

Intercom Unit: display



- Move the rubber bumper and open the sliding panel at the top of the intercom to access the USB port of the display
 - From left to right, you have a **switch** and the **USB-C for updates**
 - Move the **switch** to its LEFT position (further away from the **USB-C connector**)
- Connect the display to your computer using the USB-C port

Intercom Unit: display



- Open PuTTY and follow the instructions in the following figures
- On Windows, you can find the port number of your connected display from DeviceManager

Set the correct **COM port** and speed (**115200**) and connection type to **Serial**

2


Click on **Open** to open the serial port

1

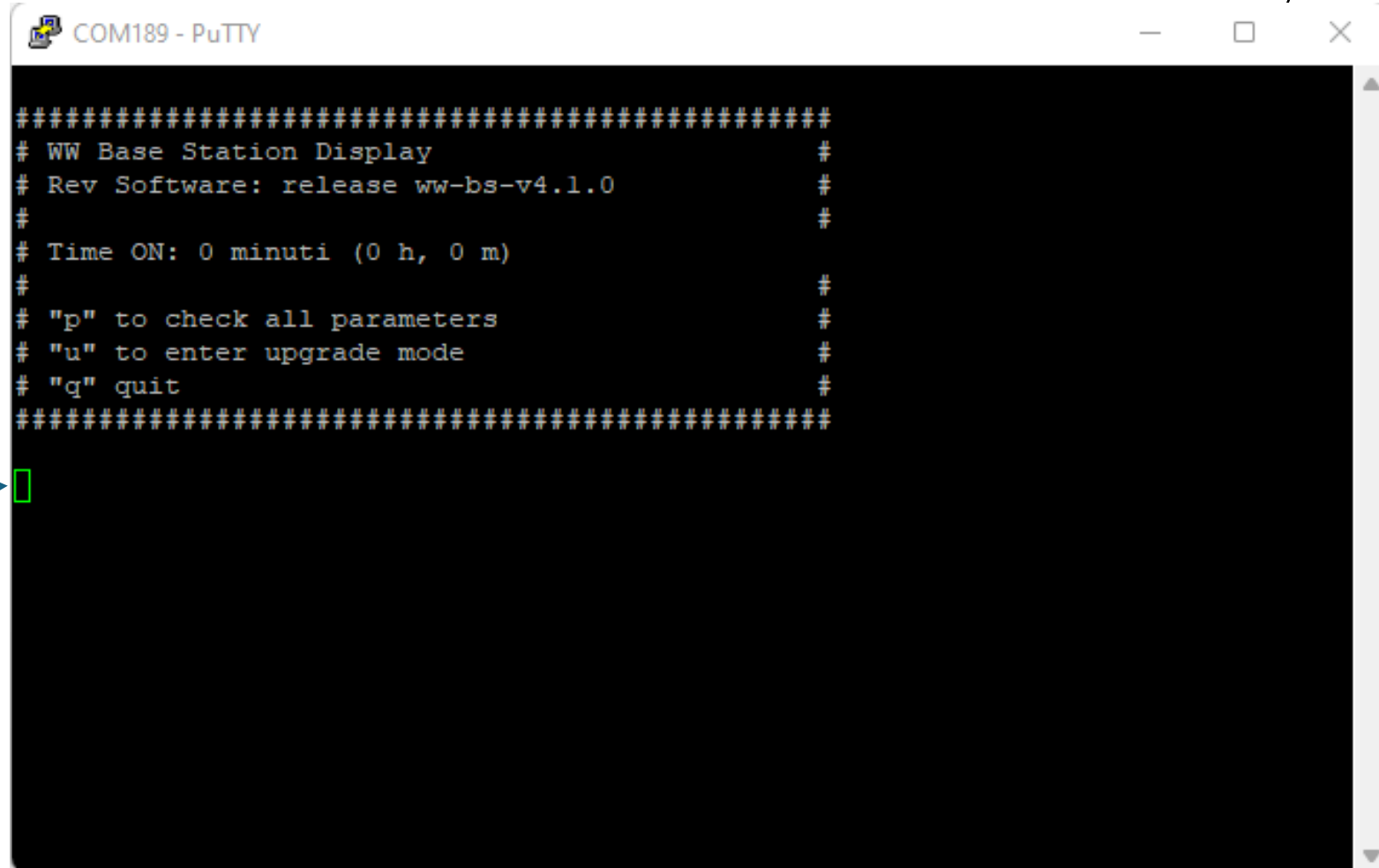
Intercom Unit: display

- The serial connection will be opened in a new window

- write **z** (lowercase letter, make sure to disable CapsLock first!) 1

- You will see a text like the one on this figure 

- write **u** (lowercase letter) to enter upgrade mode 2
- the intercom display will turn off and PuTTY will show an error for connection lost: simply click OK 3



```
#####  
# WW Base Station Display                                     #  
# Rev Software: release ww-bs-v4.1.0                         #  
#                                                           #  
# Time ON: 0 minuti (0 h, 0 m)                               #  
#                                                           #  
# "p" to check all parameters                                #  
# "u" to enter upgrade mode                                  #  
# "q" quit                                                    #  
#####  
█
```

Intercom Unit: display

- The serial connection will be opened in a new window
- write **z** (lowercase letter, make sure to disable CapsLock first!) 1
- You will see a text like the one on this figure
- write **u** (lowercase letter) to enter upgrade mode 2
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```
COM189 - PuTTY

#####
# WW Base Station Display                               #
# Rev Software: release ww-bs-v4.1.0                   #
#                                                       #
# Time ON: 0 minuti (0 h, 0 m)                         #
#                                                       #
# "p" to check all parameters                          #
# "u" to enter upgrade mode                            #
# "q" quit                                              #
#####

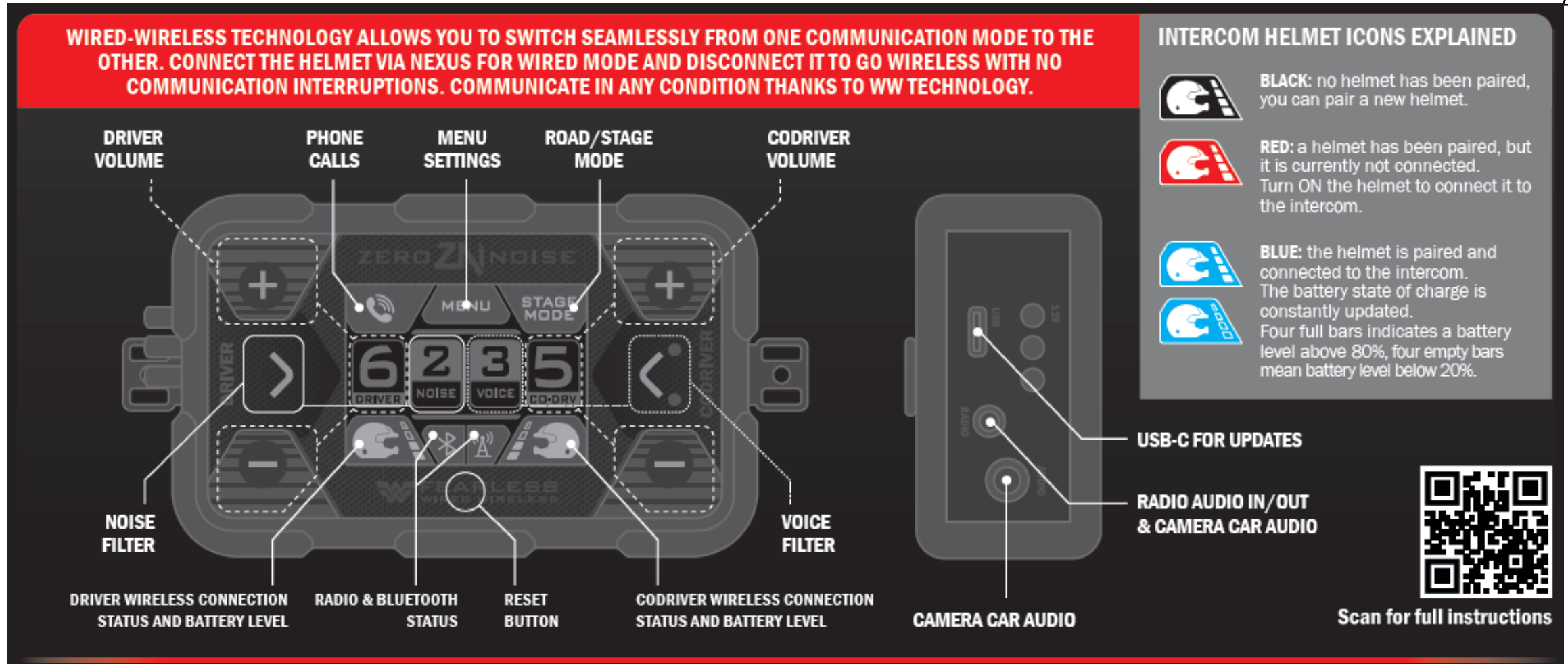
Entering bootloader mode
█

PuTTY Fatal Error
Error reading from serial device
OK
```

Intercom Unit: display

- Your computer should now recognize the intercom display as an external memory device named RPI-RP2
- Now you can simply copy and paste (or drag and drop) the firmware file into the RPI-RP2 device
 - ***Firmware file for display:*** WW_BS_LCD_v4.1.0_RELEASE.uf2
- After the firmware upload is successful, you can disconnect the intercom display from the computer and reboot

Intercom Unit: device



Intercom Unit: device

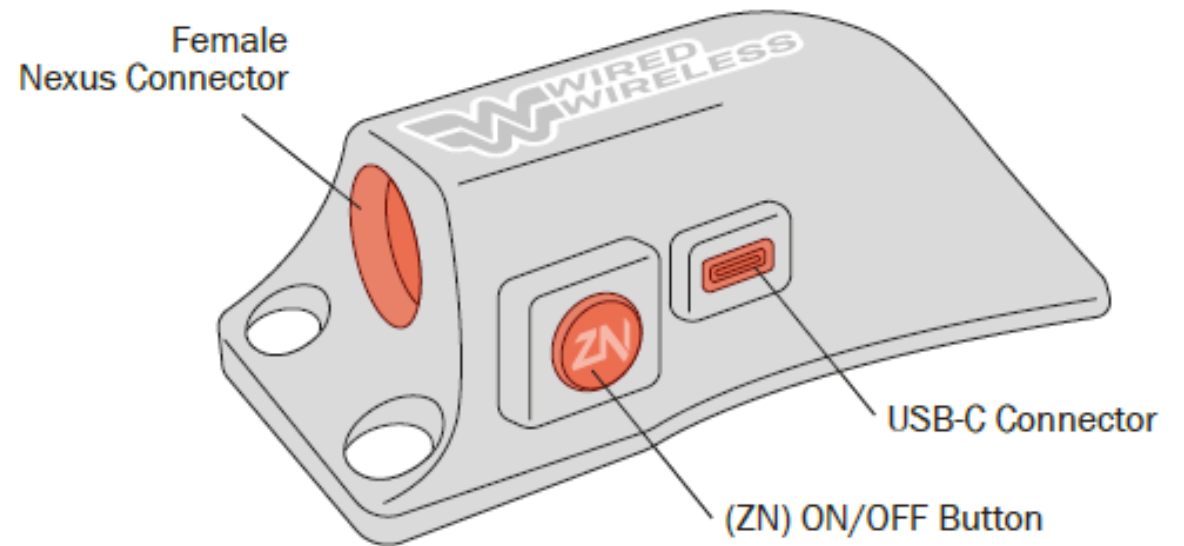
- Connect the 12V cable (required to properly use the RESET button)
- Connect the unit to your computer using the USB-C port on the left side of the intercom
- Quickly press 5 times the RESET button positioned under the Fearless Wired Wireless logo on the bottom front part of the unit, the intercom display will turn off

Intercom Unit: device

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- Now you can simply copy and paste (or drag and drop) the firmware file into the RPI-RP2 device
 - ***Firmware file for intercom:*** WW_BS_v4.1.0_RELEASE.uf2
- After the firmware upload is successful, you can disconnect the intercom from the computer and reboot it

Helmet Unit

- Connect the unit to your computer using the USB-C port on the bottom part of the helmet side cover: the unit will turn on automatically
- Quickly press 5 times the ON/OFF button positioned on the bottom part of the helmet side cover



Helmet Unit

- Your computer should now recognize the helmet unit as an external memory device named RPI-RP2
- Now you can simply copy and paste (or drag and drop) the firmware file into the RPI-RP2 device
 - ***Firmware file for helmet unit:*** WW_PU_v4.0.0_RELEASE.uf2
- After the firmware upload is successful, you can disconnect the device from the computer and reboot it