

FIRMWARE UPDATE INSTRUCTION

**ROTOR INTERFERENCE DETECTION
RID 3.0**

Part number 22464112

Version 1.0.0

Date April 17, 2026

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1. REVISIONS

V1.0.0	Initial document	17-04-2026

2. PREFACE

This user and safety manual applies to the DMN-WESTINGHOUSE Rotor Interference Detector (RID) 3.0, part number 22464112.

Read this information carefully to prevent damage to the module or any harm to persons or objects.

Supplier information:

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Figure 1: Overview of the RID 3.0

3. INTRODUCTION

To further improve the functionality of the RID 3.0 unit, new versions of the firmware are released. A specific procedure needs to be followed to update the firmware on an RID 3.0 unit to the latest version. This document is written for guidance during this procedure. Read this document carefully before updating the RID 3.0 unit to prevent damage to the module.

4. PRODUCT OVERVIEW

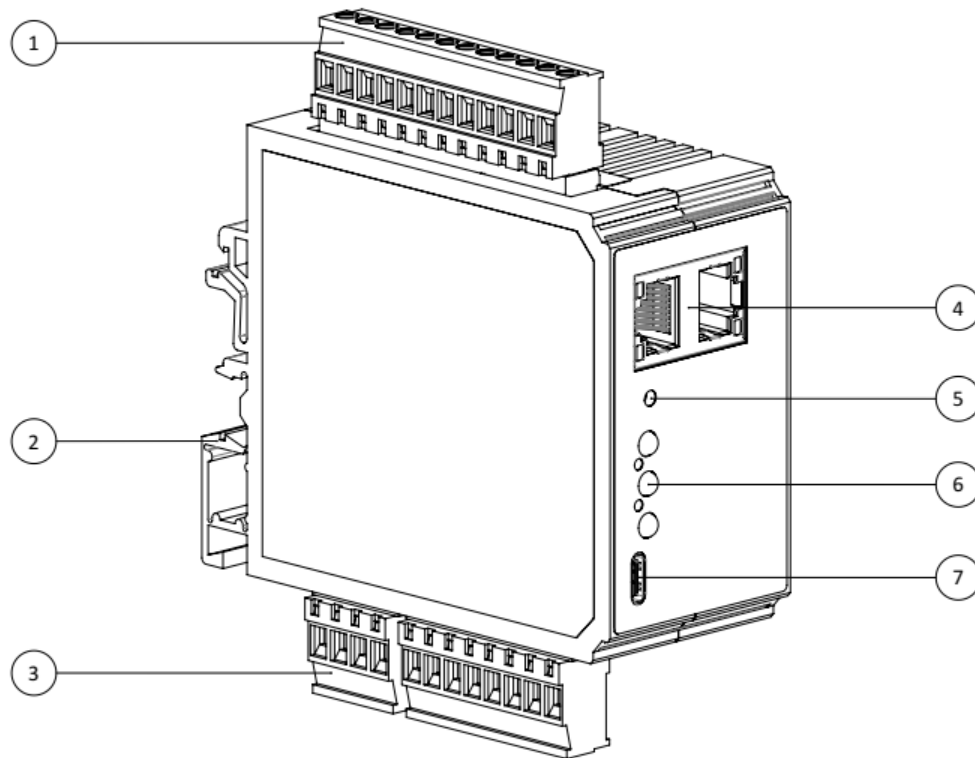


Figure 2 Product overview

1. Relay output connections
2. Rail mount
3. Power supply, input, and analog output connections
4. Ethernet/IP™ ports
5. Reset button
6. LED indicators
7. USB-C port

4.1. ANALOG OUTPUT, INPUT AND POWER SUPPLY CONNECTIONS

IOUT		RST		CIP		24VDC		SENSE			
+	-	+	-	+	-	+	-	S1	S2	NA	NA

Figure 3 Analog output, input and power supply connections

- 24VDC (Power supply)
At this port a 24 VDC power supply should be connected.

4.2. FRONT CONNECTIONS

- USB-C port (USB 2.0)
This port can be used to connect the module to a PC for configuration and monitoring via the service tool.

5. UPDATING THE FIRMWARE

To update the firmware follow these steps carefully.

1. Download the latest version of the firmware via <https://support.dmnwestinghouse.com/en/rid-3-0/>.
2. Connect the RID module to the PC via the USB-port (see chapter 4.2).
3. Connect a power supply to the 24VDC +/- terminals (see chapter 4.1).
4. Make sure the power supply is turned off.
5. Press and hold the Reset button (see chapter 4).
6. While holding the Reset button, turn on the power supply.
7. The module will turn on and the yellow LED indicator will turn solid.
8. Release the Reset button.
9. The RID module should now be visible as a storage device on the PC (see Figure 4).

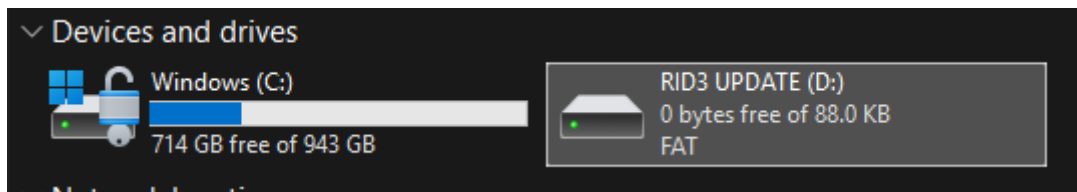


Figure 4 RID module as storage device

10. Delete the existing "firmware.bin" file (see Figure 5).

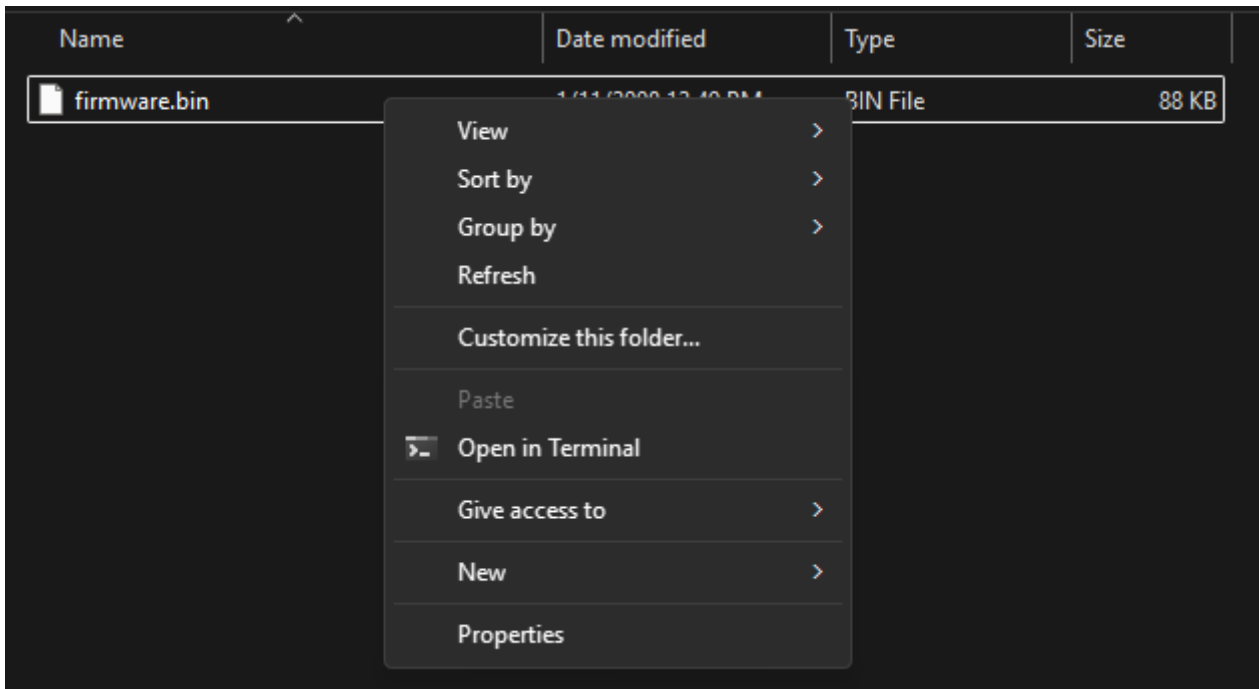


Figure 5 Delete current firmware

11. Copy and paste the new firmware "RID3E VX.X.X.bin" file in the folder (VX.X.X designates the version number).

12. Safely remove the device and by using the eject-function in Windows Explorer (see Figure 6) and disconnect the RID module from the PC.

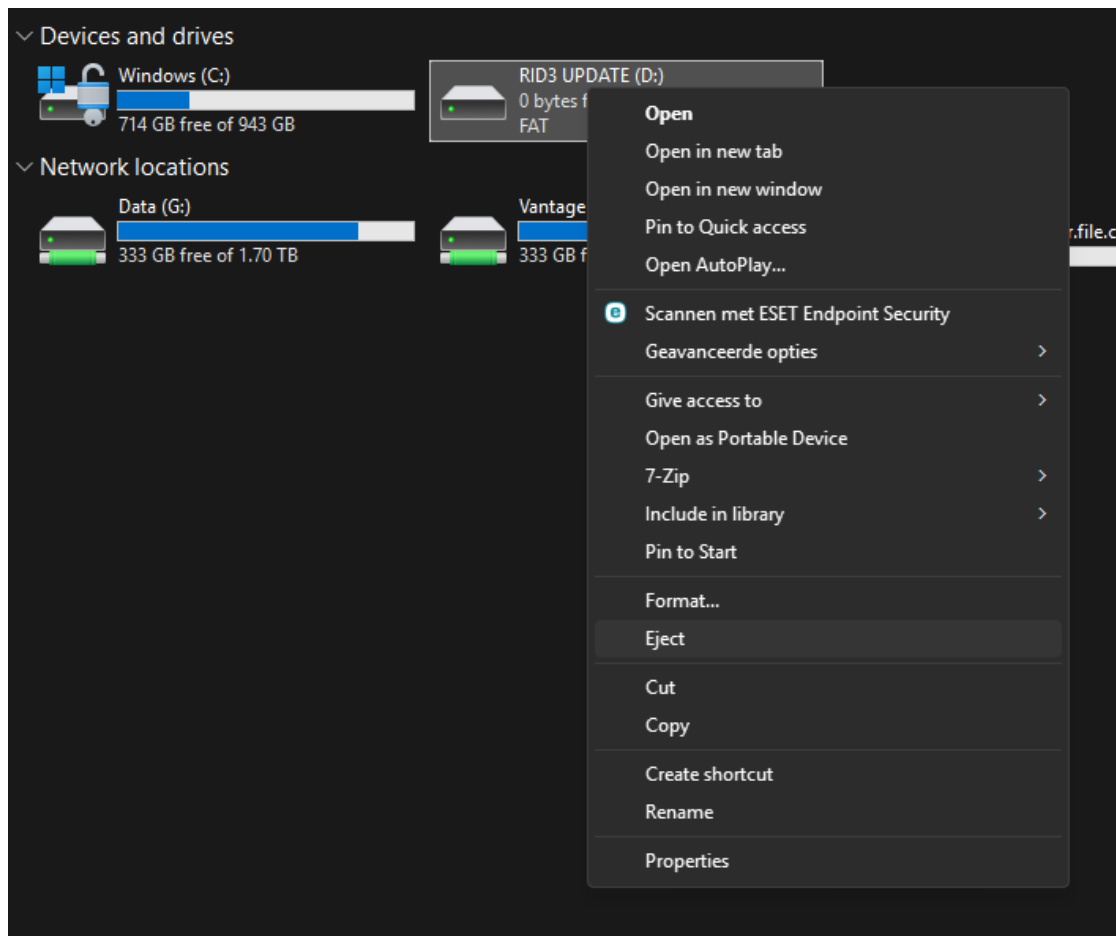


Figure 6 Eject device

13. After a couple seconds the RID module will restart automatically.
14. When the green LED indicator turns solid, the RID module is restarted, updated and ready for operation.
15. When the RID module does not restart automatically, turn of the power supply and wait for a couple seconds.
16. Turn on the power supply again and the RID module should start normally.
17. Double-check the firmware-version via the RID service tool (see Figure 7).

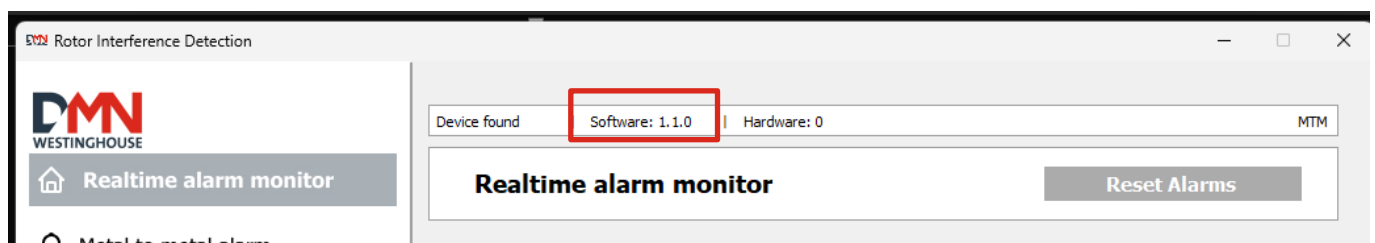


Figure 7 Firmware check service tool

18. If this version matches the one you installed, the RID module is updated correctly.
19. If this version does not match, retry installing the firmware by starting at step 2.