



STEP 1: MOUNTING THE READER

We recommend using the included EMX universal L-bracket.

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| 1 | | <p>Remove the four screws from the cover of the Patriot MR.</p> <p>Remove the front cover, exposing the four mounting holes (indicated with arrows).</p> |
| 2 | | <p>Use two to four #8 machine screws with nuts and washers to mount the reader in its desired location.</p> <p>For best performance, we recommend mounting the top two mounting holes to the top row of slots on the provided bracket as shown.</p> |
| 3 | | <p>Replace the front cover using the four screws removed in step 1.</p> |

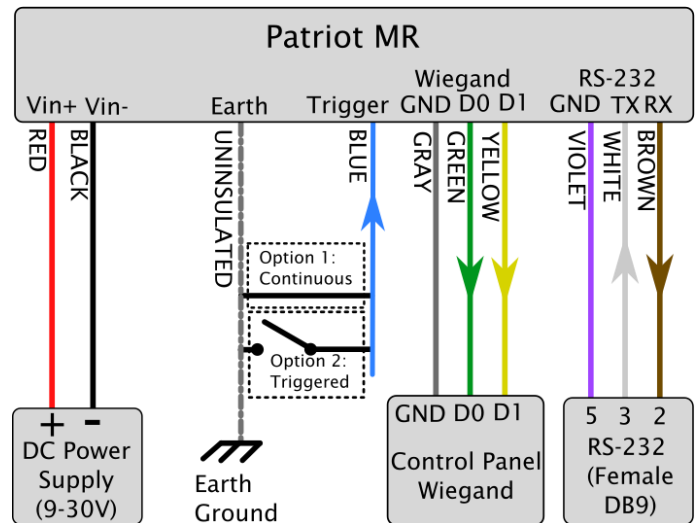
STEP 2: WIRING

Wire the unit according to the wiring diagram shown here.

The **VIOLET**, **WHITE**, and **BROWN** wires are used for RS232 serial output and for configuration of the reader via the setup software (RS-232 to USB converter sold separately). If neither of these uses are needed, these wires may be left unconnected.

Similarly, if the Wiegand output is not needed, the **GRAY**, **GREEN**, and **YELLOW** wires may be left unconnected.

When using an external trigger, connect the **BLUE** trigger wire to any GND (such as the **UNINSULATED** earth wire) via a switch or relay. Tags will be read when the **BLUE** wire to GND wire connection is closed. If the trigger functionality is not needed, the **BLUE** wire should be connected directly to the **UNINSULATED** wire. **The reader will not read unless the BLUE trigger wire is connected to a ground wire.**



Note: Do not wire another manufacturer's Wiegand output to the same terminals as the Patriot MR's Wiegand output. Doing so may damage the unit.

STEP 3: POWER ON

To turn on the Patriot MR, apply DC power to the **RED (Vin+)** and **BLACK (Vin-)** wires. The unit will emit an audible long beep upon powering on. Tag reads are triggered by the **BLUE** trigger wire being connected to ground. The unit will then emit a blue light and sound a short beep whenever a valid tag is read. The unit will continue to read tags while the **BLUE** wire is connected to ground. With each tag read, the reader will output the data on both the Wiegand wires and the RS-232 serial connection.

Configuration settings can be modified over RS-232 using the Patriot MR Setup Software (RS-232 to USB converter sold separately). Consult the operation manual for more information.



Patriot MR Setup Software
(Windows 10/11 only)



Patriot MR Operation Manual