



RUDOLF XL PRE-ASSEMBLED PROGRAMMING KIT - RED VERSION

WPXL102



Product description

Looking for a fun DIY Christmas project? Program this extra-large Rudolf figurine and make its LEDs shine all the colours of the rainbow! Ideal for both beginners and advanced makers!

This educational and fun kit is perfect for those who want to program their own Christmas decorations. There is no need to solder, because this kit is pre-assembled. The onboard components include fancy RGB LEDs that have a special diffused effect. You will be able to program the colours and light effects of the different LEDs thanks to the **Arduino Nano Every**. The Arduino will be pre-programmed with some basic LED effects, so your kit will work once you power it with the included adaptor. Or you can choose to write your own code based on the available example code.

Find the **example code and full manual** in the manual and downloads tab of this product page.

The printed circuit board of this project is designed especially so you can add **different add-ons**. For example, add an OLED screen to display messages or program it to countdown the days until Christmas! Or add an IoT Tuya chip so your project can communicate with your smartphone. You can even add a sound microphone, motion sensor or light sensor.

Looking for a version that you can solder and program? Enjoy the bright RGB LEDs on the WSPXL100: CHRISTMAS TREE XL SOLDERING & PROGRAMMING KIT (<https://www.velleman.eu/products/view/?id=463792>), the cute WSPXL101: RUDOLF XL SOLDERING & PROGRAMMING KIT (<https://www.velleman.eu/products/view/?id=463794>) or the WSPXL103: POLY REINDEER XL SOLDERING & PROGRAMMING KIT (<https://www.velleman.eu/products/view/?id=463798>). More figurines coming soon!

Features

- pre-assembled XL-size & gold plated circuit board (PCB) in the shape of a cute Rudolf
- 24 addressable (programmable) RGB LEDs - WS2812
 - 21 x 5 mm RGB LEDs
 - 3 x 8 mm RGB LEDs
- Arduino® Nano Every
- onboard push button
- USB A to USB micro cable for programming
- USB A to USB B cable for power supply
- wooden holder
- complete manual and video available in 5 languages
- example code for Arduino available
- educational & fun for all ages and skill levels
- expandable with lots of options:
 - WPI438: 0.96 INCH OLED SCREEN WITH I2C
(<https://www.velleman.eu/products/view/?id=460516>)
 - WPI354: TUYA IOT INTERFACE (<https://www.velleman.eu/products/view/?id=459142>)
 - WPSE309: MICROPHONE SOUND SENSOR MODULE
(<https://www.velleman.eu/products/view/?id=459214>)
 - and more!
- no soldering required

Specifications

- dimensions: 175 x 270 mm
- power supply: 5 V - 2.1 A max. (cable incl.)