

 LUMAS K.K.

NVA QUICK START GUIDE

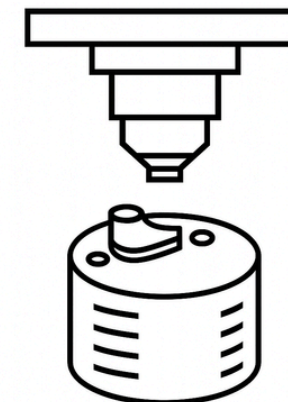
WORLD'S FIRST LASER CUTTER NOZZLE VISUAL ALIGNER

**A GAME CHANGER
OF NOZZLE ALIGNMENT**

WWW.LUMAS-GLOBAL.COM



LUMAS NOZZLE VISUAL ALIGNER QUICK START GUIDE



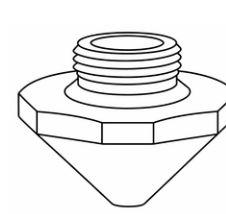
PACKAGE CONTENTS



NVA Machine



Type-C Cable



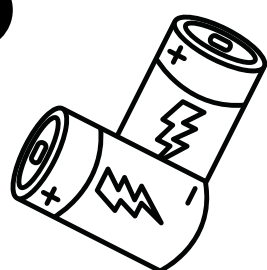
Nozzle



Quick Start Guide

QUICK INSTALLATION

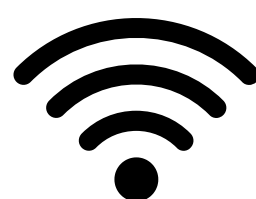
1



Install Battery
Power On

2

PWD: 88888888



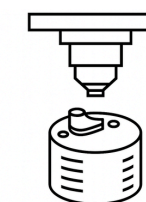
Connect to
NVA Wi-Fi

3

192.168.0.1:8088

Access
Interface

4



Start
Alignment

! SAFETY

- ! Avoid direct contact with moving nozzle
- ! Use by trained personnel only
- ! Warning: Keep the cutting laser OFF during the entire alignment
- ! Keep away from liquid and oil



SUPPORT & WARRANTY

Online support
support@lumas-global.com

NVA Online
Support Center



SPECIFICATIONS

- Input Power: DC 5V / 3A
- Connection: Wi-Fi
- Default Password: 88888888
- Access IP: 192.168.0.1:8088
- Country of Origin: Made in China
- Manufacturer: LUMAS K.K.
- EU Authorized Representative (EAR):
XLase GmbH, Germany, Itterpark 6, 40724 Hilden
- Contact: support@lumas-global.com

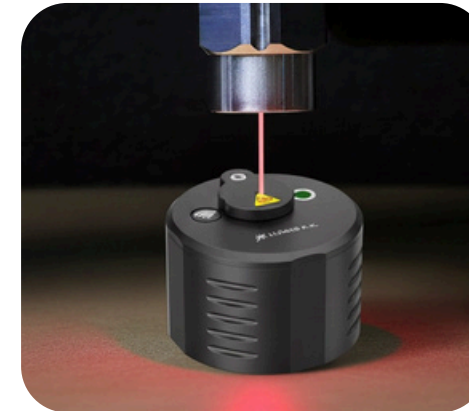
NVA QUICK ACCESS CARD

Pre-Operation Checklist

- ✓ Power indicator shows steady green light
- ✓ NVA placed horizontally (bubble level centered within red circle)
- ✓ Nozzle optical channel clean and undamaged
- ✓ NVA-nozzle alignment confirmed

Alignment Specifications & Precautions

1. Activate red laser, adjust nozzle to ~10mm from protective slide cover
2. Fine-tune nozzle position until laser dot fully enters alignment port



Red laser beam enters the alignment port of the slide cover

Web Application Variants

- ① Power ON
- ② Establish WiFi connection (SSID=NVA, PASSWD=88888888)
- ③ Access the control panel by entering 192.168.0.1:8088 in browser. Set the UI language and operating mode (Auto/Mid) as needed.

Nozzle Imaging

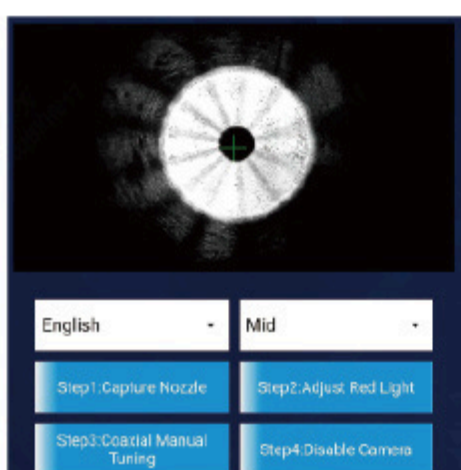
Disable the laser red light, adjust the nozzle height to ensure clear nozzle imaging, then click the "Step1: Capture Nozzle" button. A yellow crosshair circle indicates successful alignment.

Adjust red light

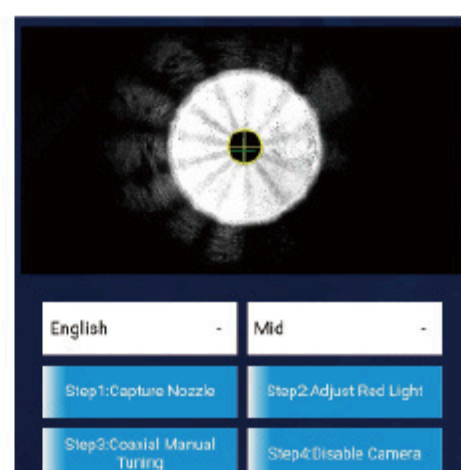
Activate the laser red light, click the "Step2: Adjust Red Light" button, adjust the focus value of the red light, and confirm that the red light is focused (forming a bright, well-defined circular dot with sharp edges).

Coaxial manual tuning

Click the "Step3: Coaxial Manual Tuning" button to manually adjust the coaxial screws on the cutting head. When the red light center aligns with the nozzle center, the coaxial alignment is complete. Finally, click "Step4: Disable camera".



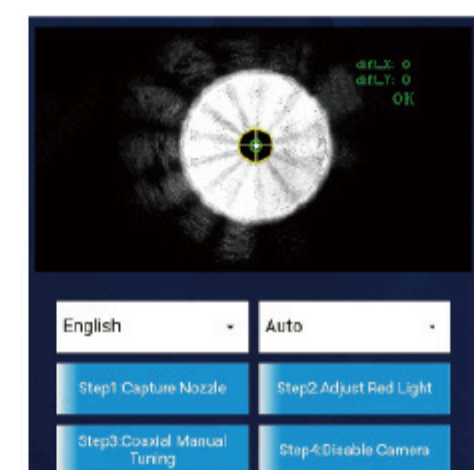
Web Application Variants



Nozzle Imaging



Adjust red light



Coaxial manual tuning

Advisory: Mandatory prerequisite: Thoroughly review the complete manual prior to operation.