



N1 Launch Monitor
User Manual

Nvisage

TECH

NOLO

GIES

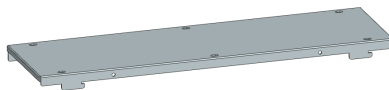
What's Included



N1 Launch Monitor



Golf Ball



Mount Plate



LAN Cable



Spirit Level



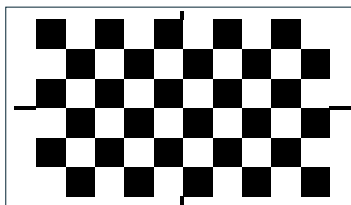
Power Cable



Power Adaptor



Tapping Screw



Calibration Board

Buttons



Power Port

Rear LED

Ethernet Port

Power Button

Power On/Off

Connect the device to a power source using the provided power adaptor. To turn the device on or off, flip the rocker switch on the back of the device.

Connection

N1 device can transfer data by connecting to a PC. Connect the device to a PC using the ethernet port. For PC setup instructions, refer to the MURLIE User Manual.

Golf Software Package

The N1 device is compatible with the Golf Software from Nvisage for an enhanced golf experience. Store up to 4 user profiles and access personalized records and in-depth performance analysis. For more information, see the MURLIE User Manual.

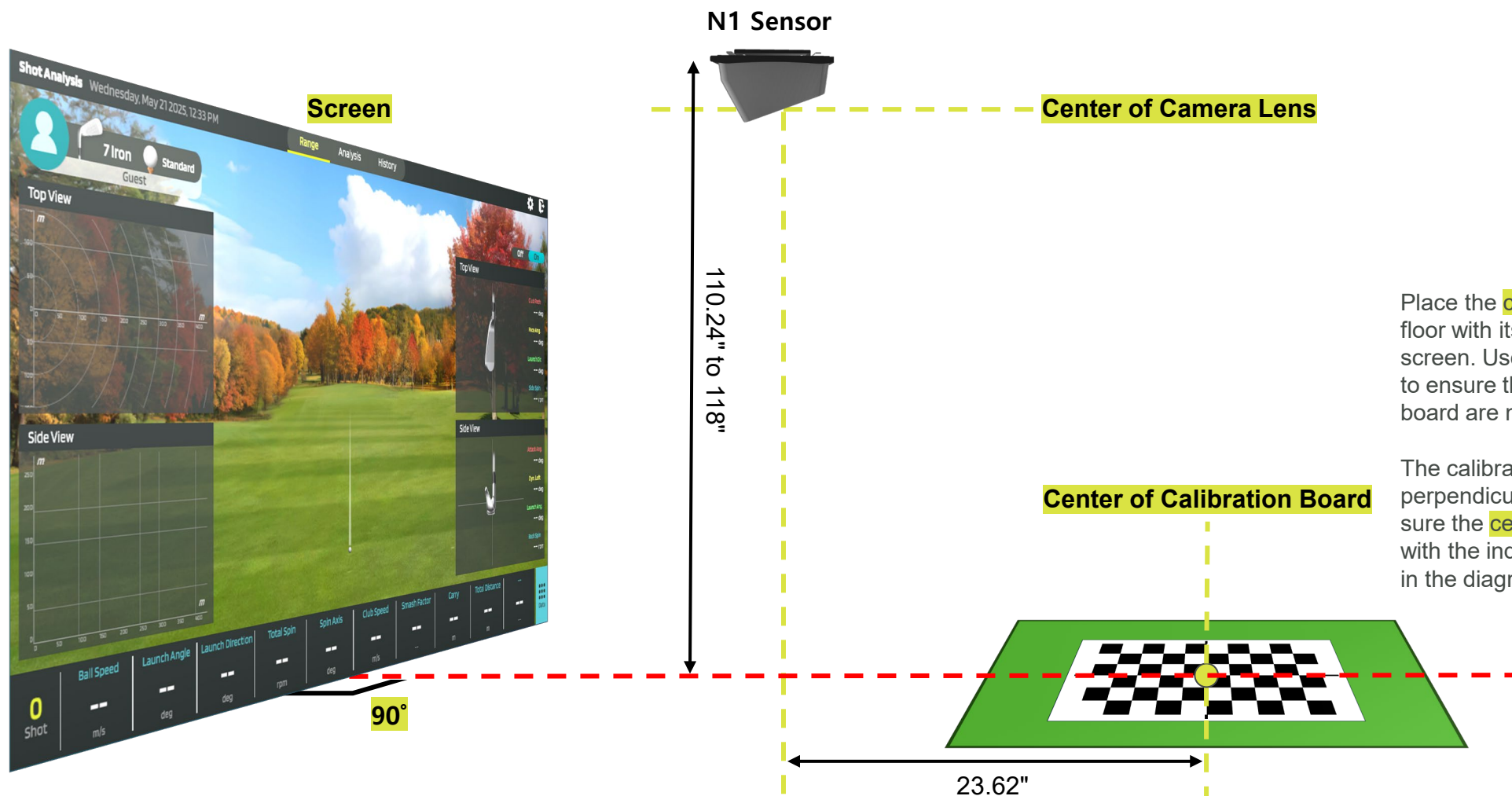
Device specifications

-	N1
Install Type	Overhead
Size (w x h x d)	21.8" x 4.8" x 6.9"
Weight	11.7 lb
Type	Indoor
Hitting Zone	16" x 20"
Ball Type	Marked Ball / Logo Ball
Number of Cameras	2
Battery Life	-
Display	-
Software Provided	MURLIE

Device Installation

N1 device should be installed as shown in the image below (unit: inch).

You can perform camera calibration using a calibration board to set up the device according to your setup environment.

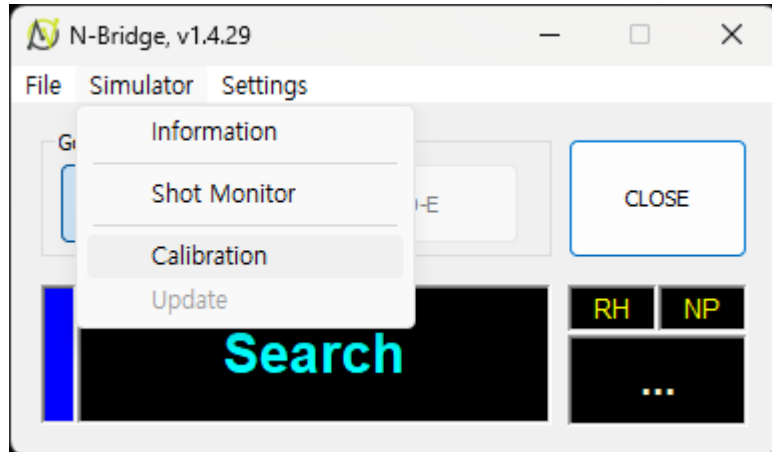


Place the **calibration board** on the floor with its long edge facing the screen. Use the enclosed **level gauge** to ensure that both the floor and the board are not tilted.

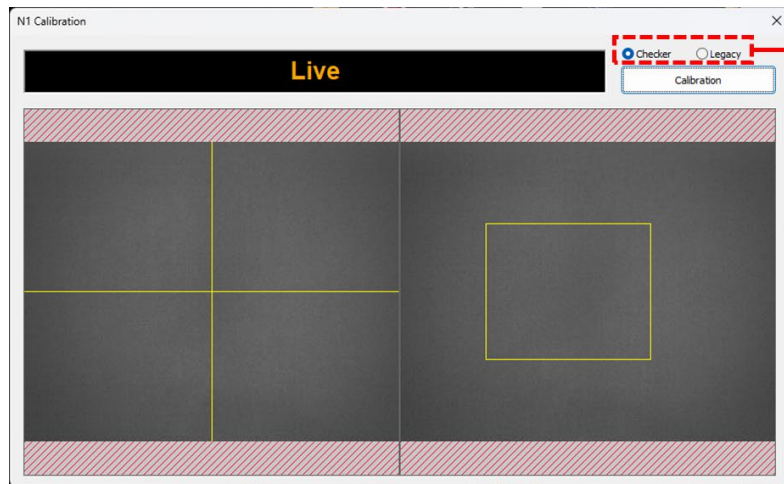
The calibration board should be perpendicular to the screen. Make sure the **center of the board** is aligned with the indicated position as shown in the diagram.

Camera Calibration

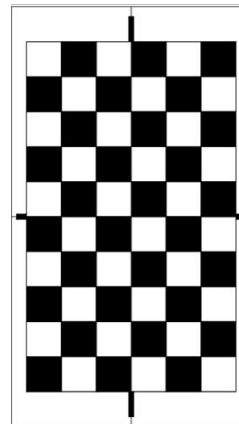
1. Select the N1 sensor from the N-Bridge and click the Run button.
2. Open the N1 Calibration window by going to Simulator – Calibration as shown below:



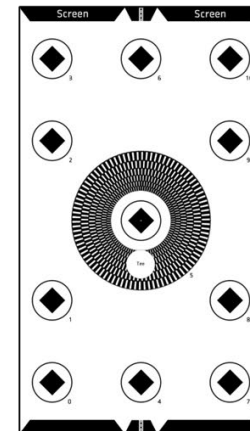
3. Select either the **Checker** or **Legacy** button at the top right according to the type of board you have.



[N1 Calibration UI]



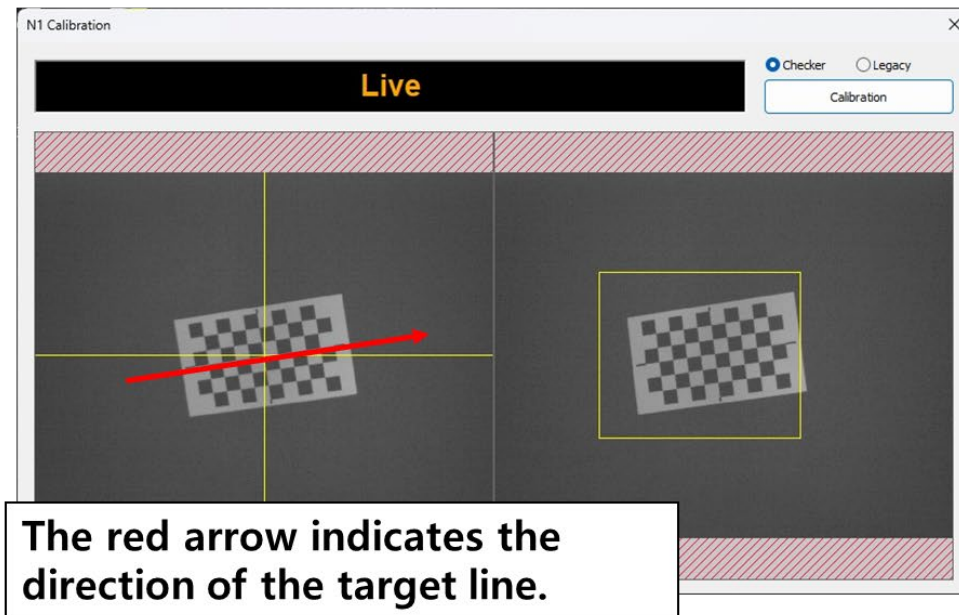
[Checker board]



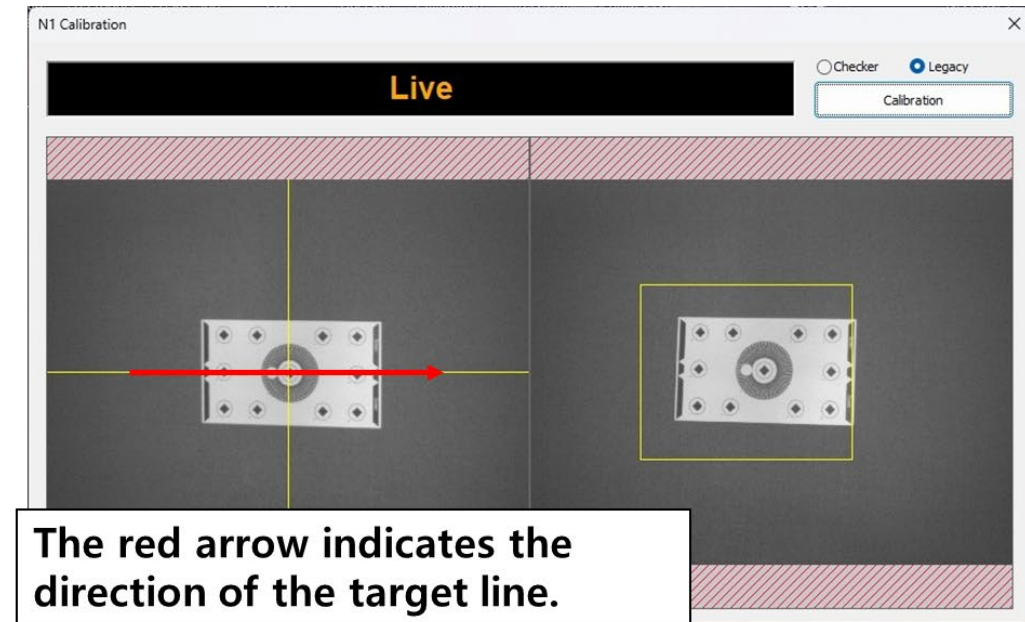
[Legacy board]

Camera Calibration

- Before starting calibration, check if the ground is horizontal using a level.
- Align the yellow crosshair on the left side of the screen with the center of the calibration board and adjust the board so that it faces the desired target direction. Then, click the Calibration button.

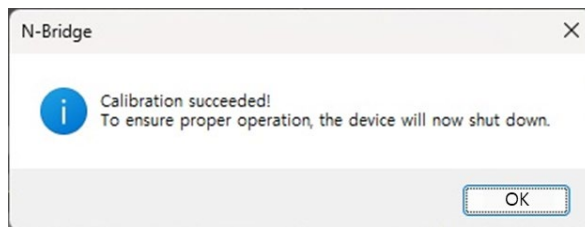


[Checker Board Sample]



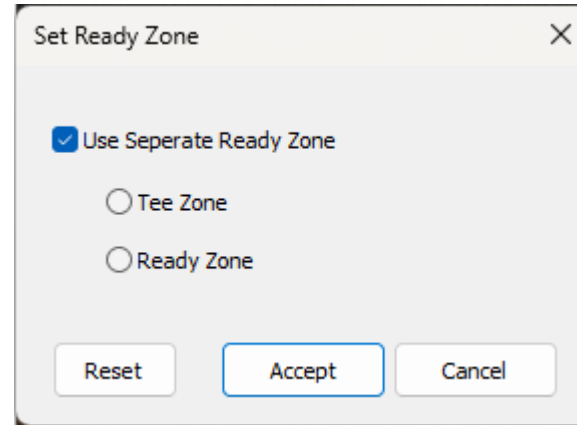
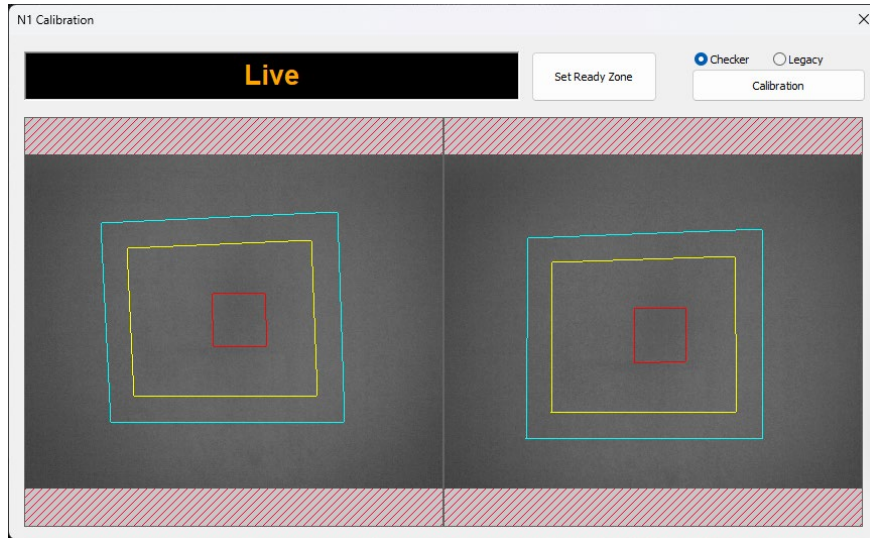
[Legacy Board Sample]

- The below pop-up window indicates that the calibration is successfully done.



Ready Zone Setup

1. Click on the Set Ready Zone button. A popup window will appear where you can configure the zone.



2. Move and set a custom zone within the allowed area.
3. Read the description below and select the option you want.
 - When Tee Zone is selected, you can move the Red box (Tee Zone) by double clicking the primary streaming image.
 - When Ready Zone is selected, you can move the Yellow box (Ready Zone) by double clicking the primary streaming image.
 - When Seperate Ready Zone is selected, you can configure an individual Ready Zone.
 - When Seperate Ready Zone is not selected, the Ready Zone is only activated.
4. Once you are done, click on "Accept" button to save the configuration.

Shot Data

After connecting the supported Golf Simulator, you can obtain data on the shot by placing the ball within the recognition range (ready zone) and completing the shot. Please refer to the table below for the shot data displayed.

Category	Item	Description
Ball Data	Ball Speed	The ball speed immediately after impact.
	Launch Angle	The vertical launch angle of the ball.
	Launch Direction	The horizontal angle of the ball relative to the target line.
	Total Spin	The spin amount immediately after impact
	Back Spin	The back spin of the ball.
	Side Spin	The side spin of the ball.
	Spin Axis	The angle between the ball's rotation axis and the horizontal plane.
Club Data	Club Speed	The clubhead's speed just before impact.
	Face Angle	The direction the clubface is pointing relative to the target line at impact.
	Dynamic Loft	The vertical angle of the clubface at the point of contact with the ball.
	Smash Factor	Accuracy of hitting the sweet spot with the ball. (=Ball speed / Head speed)

Category	Item	Description
Launch Data	Carry Distance	The distance from the starting point to where the ball first hits the ground.
	Total Distance	The distance between the ball's starting point and the point where the ball stops.
	Run Distance	The distance between where the ball lands and where it finally stops.
	Side Distance	The carry point where the ball lands to the left or right of the target line.
	Side Total	The final point where the ball lands to the left or right of the target line.
	Apex	The maximum height of the ball.
	Apex Distance	The distance on the ground when the ball reaches its maximum height
	Flight Time	The flight time until the ball first hits the ground.
	Flight Type	The flight path of the ball.
	Landing Angle	The angle of incidence of the ball when it first hits the ground.

Caution and Maintenance

Power Supply Precautions

- Using an incorrect power supply may damage the product. Always use the provided power adapter for connecting. Using a different power adapter or charger may damage the device or cause safety hazards such as fire or electric shock.
- Before connecting the power wiring of the product, make sure the product's input power is turned OFF. Failure to do so may cause damage to the product.

Installation Precautions

- Ensure that reflective surfaces such as mirrors or glass are not within the product's camera view, as this may lead to inaccurate measurements.
- The product may malfunction if it faces the sun during sunrise or sunset when the sun is near the horizon.
- Do not install or use the product in environments or locations like the following, as it may affect the accuracy of the measurements.
 - > Long grass or divots (damaged turf)
 - > Smooth or highly reflective surfaces
 - > Around fixed objects that may obstruct the camera's view
- This product uses an infrared sensor. Using lighting that interferes with infrared signals indoors may cause the product to malfunction.

Product Maintenance

- When cleaning the product's surface, do not use solutions or diluents, as they may damage the product.
- Keep the product dry and always turn off the power when storing it.
- Do not store the product in extremely hot or cold locations. (Recommended temperature range: 14°F to 113°F)

Others

- This product uses a camera that is installed with precision. Do not drop, disassemble, or modify the product. There is a risk of damage to the device or electric shock.
- For safety, do not store the product in places where children or pets can access it.
- If liquid or foreign substances accidentally enter the device, do not use the product. Immediately turn off the power and contact the place of purchase for repair or replacement.
- Do not operate the product with wet hands, as there is a risk of electric shock.



Reference Document & Revision History

Document	QR Code	URL
N-Bridge User Manual		https://qrfy.io/r/LK9T_uBNNA
N-Bridge OneStop Settings Guide		https://qrfy.io/r/i0QqmNu_BM
MURLIE User Manual		https://qrfy.io/r/1jkeZu8nn_
N1 Installation Guide		https://qrfy.io/r/Ve_idkZkoa

Version	Date	Description
1.3	2026-06-29	Edited) What's Included Edited) Reference Document
1.2	2026-02-23	Added) Ready Zone Setup Added) Reference Document & Revision History
1.1	2025-10-28	Edited) Camera Calibration Deleted) N-Bridge and MURLIE sections
1.0	2025-06-05	Initial Release

