NVH Source Locator — ■■■ ■■■

NVH Source Locator — ■■■ ■■■

NVH Source Locator■ ■■■■■■ ■■ ■■ ■■■■■■ ■■■ ■■■■ ■■■ TDOA(Time Difference of Arrival)■ ■■■■ ■■ ■ ■■ ■■■ ■■ ■■ ■■■■■■.

■ ■■■■ ■■ ■■■ ■■■■. ■■ ■■■ ■■ ■■■ ■■■■■■.

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• ■■ ■

• 2-Sensor ■■

• 3-Sensor ■■

• Pro+ ■■ (3-Sen+, 4-Sensor, 4-Sen+, 3D, 3D+)

• Materials ■

• ■■ ■■

• ■■ ■■

• ■■■

• ■■ ■ ■■

• ■■

• Pro ■■

• Help ■ ■ ■■■■

• ■■ ■■

■■ ■■ {#how-it-works}

■■ ■■■ ■■■ ■■■ ■■■■ ■■■ ■■■ ■■■ ■■■ ■■■■■■. ■■■ ■■■■ ■ ■ ■■■ ■■■■ ■■■ ■■■ ■■■■ ■■■ ■■■■ ■■ ■■■ ■■■ ■■■ ■■■■■■.

NVH Source Locator■ ■■■ ■■■■■:

• ■■: ■■ ■ ■■■ ■■■ ■■ ■■■ ■■■■ ■ ■■■ ■■(■■■ ■■■ ■■■■ ■ ■■)

• ■■■: ■■/■■ ■■■■ ■■■■ ■■ ■■ ■■ ■■

■■ ■■ ■■■■ ■■■ ■■ ■■■ ■■■■■■.

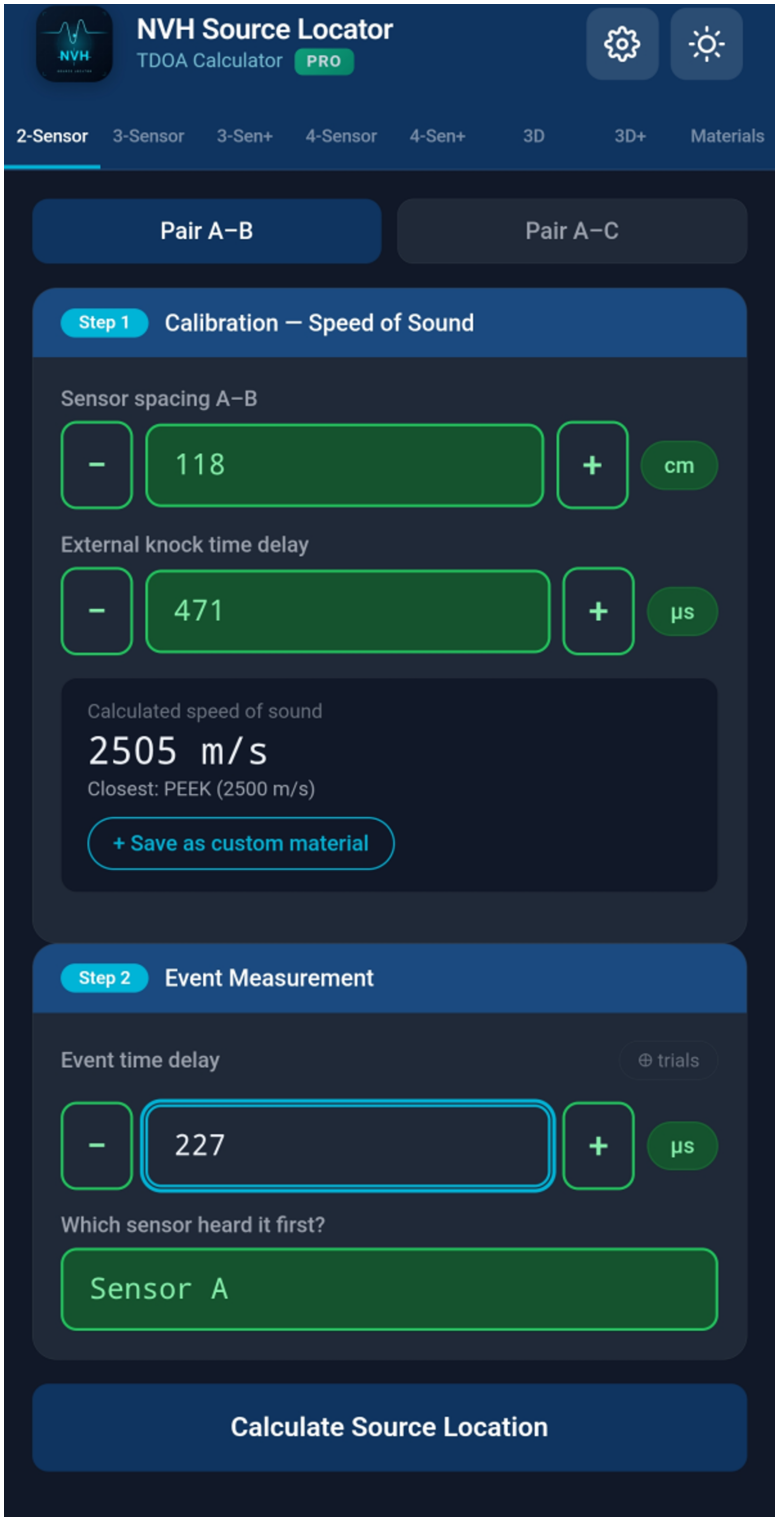
■ ■■ ■■■ ■■■■■ ■■■ ■ ■■■■ ■■ ■ ■■■■:

- **2[redacted]** → **[redacted]**
- **3[redacted]** → 2D **[redacted]** (X, Y)
- **4[redacted]** → 3D **[redacted]** (X, Y, Z)

[redacted] {#before-you-start}

[redacted]:

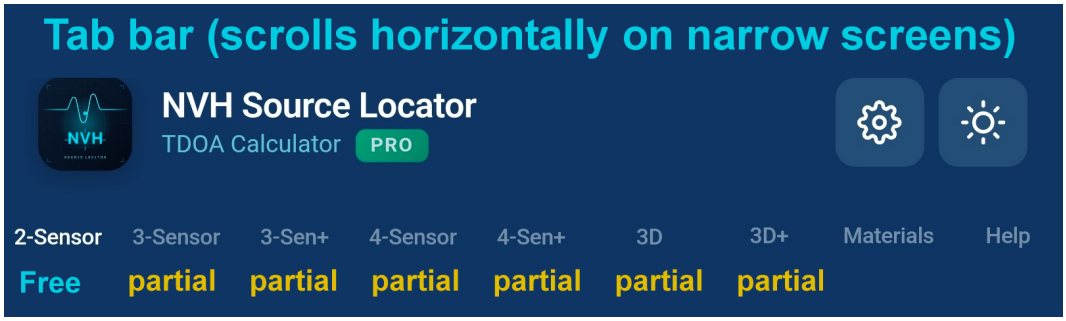
- **[redacted] (µs) [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]**
- **[redacted] [redacted] [redacted] [redacted] 2[redacted] [redacted]** (**[redacted] [redacted]** = **[redacted] [redacted]**)
- **[redacted] [redacted] [redacted] [redacted] [redacted]** (**[redacted]**, **[redacted]**)
- **[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]** (**[redacted] [redacted] [redacted]**, **[redacted] [redacted]**, **[redacted] [redacted] [redacted] [redacted]**)



2-Sensor ■■ ■■ ■ ■■

■■ ■ {#the-main-tabs}

■ ■■■ ■■ ■■■■:



■ ■■■

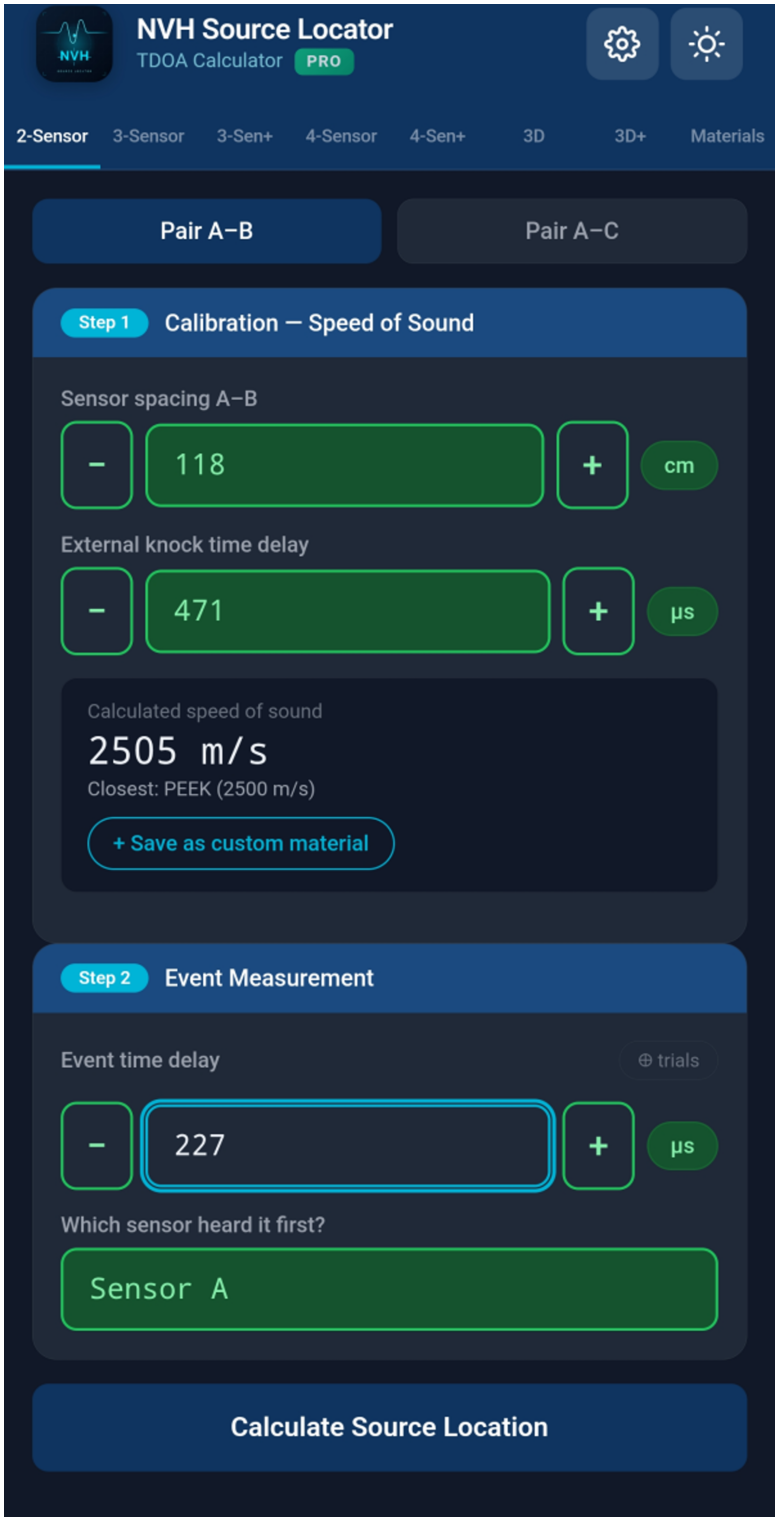
■	■■	■■ ■■
2-Sensor	2■ ■■ ■■■ ■■ ■■ 1D ■■ ■■ ■■	■■ ■■, ■ ■■ ■■. ■■ ■■.
3-Sensor	■■■■ 3■ ■■■ ■■■ 2D ■■ ■■ ■■	■■ ■■■■ ■■, ■■ ■ ■■
3-Sen+	■■■ ■■ ■■ ■■■ ■■ 3-Sensor	■ ■■■■ ■■, ■■■■ ■■
4-Sensor	■ ■ (A-B + C-D)■ ■■■ 2D ■■ ■■	■■■■ ■■ ■■■■, ■■ ■■
4-Sen+	■■ 2D ■■, ■■■ ■■■ 4■ ■■	■■■■■ ■■■, ■■ LSQ
3D	XYZ ■■■ ■■ 4■ ■■■ ■■■ 3D ■■ ■■ ■■	3D ■■■ ■■■ ■■
3D+	■■ 6■ ■■■ ■■ 3D, ■■■ LSQ	■■ ■■■ ■■■, ■■ ■■■
Materials	■■ ■■■■■ + ■■■ ■■ ■■	■■ ■■■ ■ ■ ■■
Help	■ ■ ■■■■ ■ ■■	■■ ■■■ ■■■ ■

> **■■ vs Pro**: 2-Sensor ■■ ■■ ■■■■■. ■■ ■■ ■■ ■■■■■ Pro ■■■■■ ■■ ■■ ■■ ■■(■■ ■■■ ■■■ ■■■)■ ■■■■. ■■ ■■■ ■■■ Pro paywall■ ■■■■■.

■■■ ■■■ ■■■ ■ ■■■■ ■■■■ ■■ ■■■■■■ (■■ ■■).

2-Sensor ■■ {#2-sensor-mode}

■■ ■■■ ■■: ■ ■■ ■■■■ ■■■ ■■ ■■ ■■ ■■ ■■.



2-Sensor ■

1■■: ■■ ■■

Materials ■■ ■■■■. ■■■ ■■■■ ■■■ ■■■■■■(■: "■■■■", "■■, Mild (1020)"). ■■ ■■■ ■■■ ■■■ ■■■■ ■■ ■■ ■■■ ■■■■ ■■■■.

■■■ ■■■ ■■■ ■■ ■■ ■■■■■ "■■"■ ■■■■ 2■■■■ ■■ ■■■ ■■■■ ■■■■ ■ ■■■■.

2■■: ■■ ■■■ ■■

2-Sensor ■■■ ■ ■■ ■ ■■■ ■ ■ ■■■■: ■ **A–B** ■ ■ **A–C** (■■■ 2■■ ■■ ■■ A–B■ ■■).

[redacted]:

• [redacted] (d): [redacted], cm [redacted] ([redacted])

• [redacted] (`tCal`): [redacted] — [redacted] [redacted] [redacted]

3[redacted]: [redacted]

• [redacted] (`tEvent`): [redacted]

• [redacted]: [redacted] (A [redacted] B)

4[redacted]: [redacted]

[redacted] A[redacted]:

• [redacted] = 0: [redacted] A[redacted]

• [redacted] = [redacted]: [redacted] B[redacted]

• [redacted]: [redacted]

• [redacted]: [redacted] ([redacted])

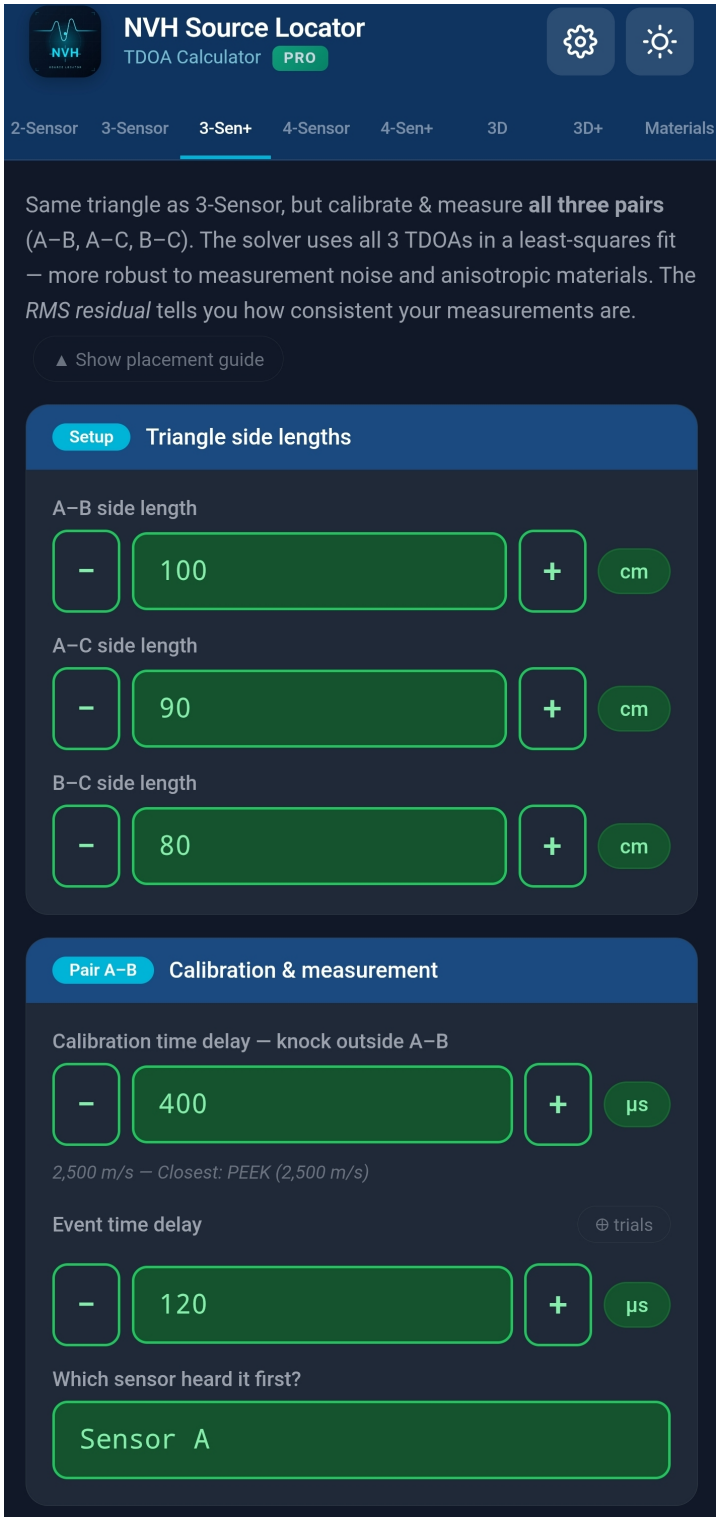
[redacted](A[redacted], B[redacted])[redacted] [redacted].

5[redacted] ([redacted]): [redacted]

[redacted]. [redacted] A, B [redacted] [redacted].

3-Sensor [redacted] {#3-sensor-mode}

[redacted] 2D [redacted].



3-Sensor ■

■■

■■■■ ■■■■ ■ ■■ ■■■ ■■■ ■■■■■■. ■■■■, ■■, ■■ ■■■ — ■■ ■■ ■■■■ ■■■■■■.

■■■ ■■

■■■ ■ ■■ ■■■■ ■ ■ (A–B, A–C, B–C)■ ■■ ■■■ ■■■ ■■ ■■■■■.

■ ■ (A–B ■ A–C)■ ■■ ■■■ ■■■■■:

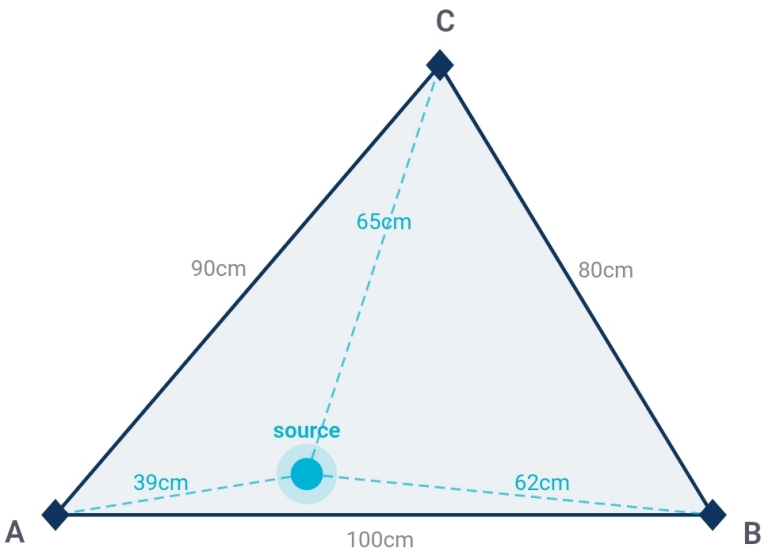
• **tCal**: [redacted]

• **tEvent**: [redacted]

• [redacted]: [redacted]

[redacted]

[redacted] A[redacted] X, Y [redacted] ([redacted] A[redacted], [redacted] B[redacted] X [redacted]). [redacted] [redacted] [redacted] [redacted] [redacted].



A, B, C = sensor corners · dot = least-squares source estimate

Copy

Share

Print result

Annotate photo

[redacted]

Pro+ [redacted] {#pro-modes}

[redacted]:

3-Sen+ (Pro)

3-Sensor[redacted] (A–B, A–C, B–C)[redacted]. [redacted] TDOA[redacted] — [redacted]. [redacted].

4-Sensor

[redacted]:

• **A–B** = [redacted] ([redacted])

• **C–D** = [redacted] ([redacted])

A–B [redacted] C–D [redacted]. 2D [redacted]. [redacted] —[redacted].

4-Sen+ ([redacted] 2D)

[redacted] ([redacted]). A[redacted] B, C, D [redacted].

3D

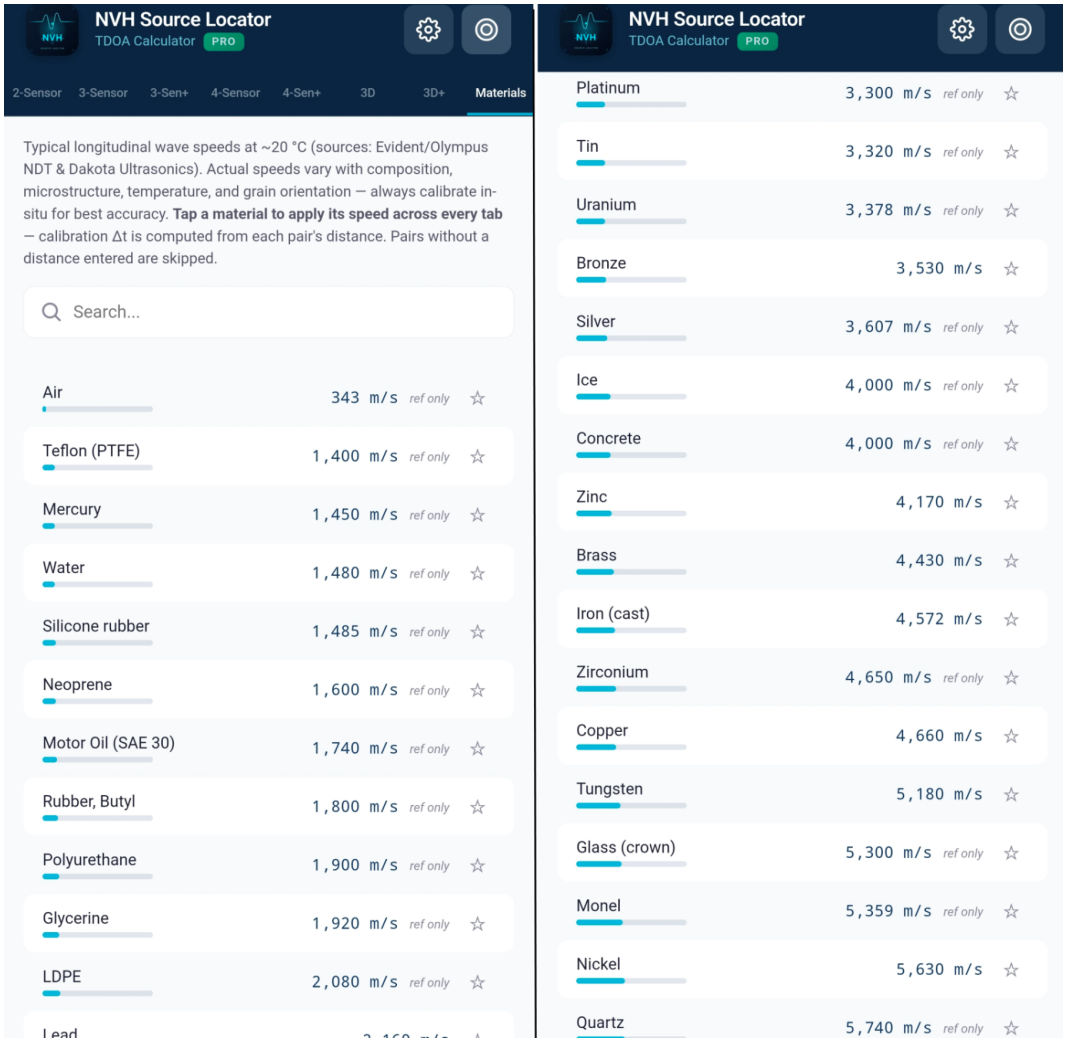
3D [redacted] 4[redacted] 3D [redacted]. [redacted] (X, Y, Z) [redacted] (A–B, A–C, A–D)[redacted].

3D+ (Pro)

3D[redacted] LSQ[redacted] **6**[redacted] (A[redacted] F[redacted])[redacted]. [redacted] 3D [redacted].

Materials [redacted] {#the-materials-tab}

20 °C[redacted].



Materials ■

■■ ■■

■■■■ ■■, ■■, ■■, ■■■, ■■, ■■, ■■■ ■■■■■. ■■■ ~340 m/s (■■)■■ ~13,000 m/s (■■■ ■■ ■■)■■ ■■■■■.

■■ ■■■ ■■ ■■ ■■

■■■■■ ■■■■ 14■ ■■■■ ■■ ■■ ■■■■ ■■■■ ■■■■. ■■■ ■■ ■■■ 20 °C■ ■■ ■■ ■■ ■■■ ■■■ ■■■ ■■■■ ■■■■■:

- ■■■■
- ■■, Mild (1020)
- ■■■■■ ■■ (304)
- ■ (■■)
- ■
- ■■
- ■■
- ■■
- ■■■

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

[redacted]: [redacted] (■, [redacted])■ **20 °C**■ [redacted] (■■, [redacted]).

[redacted] **"ref only"**■ [redacted] — [redacted].

[redacted]

2-Sensor [redacted]. [redacted] 2-sensor [redacted] [redacted] [redacted].

[redacted] in-situ [redacted]. [redacted] (■■■ [redacted]).

[redacted]

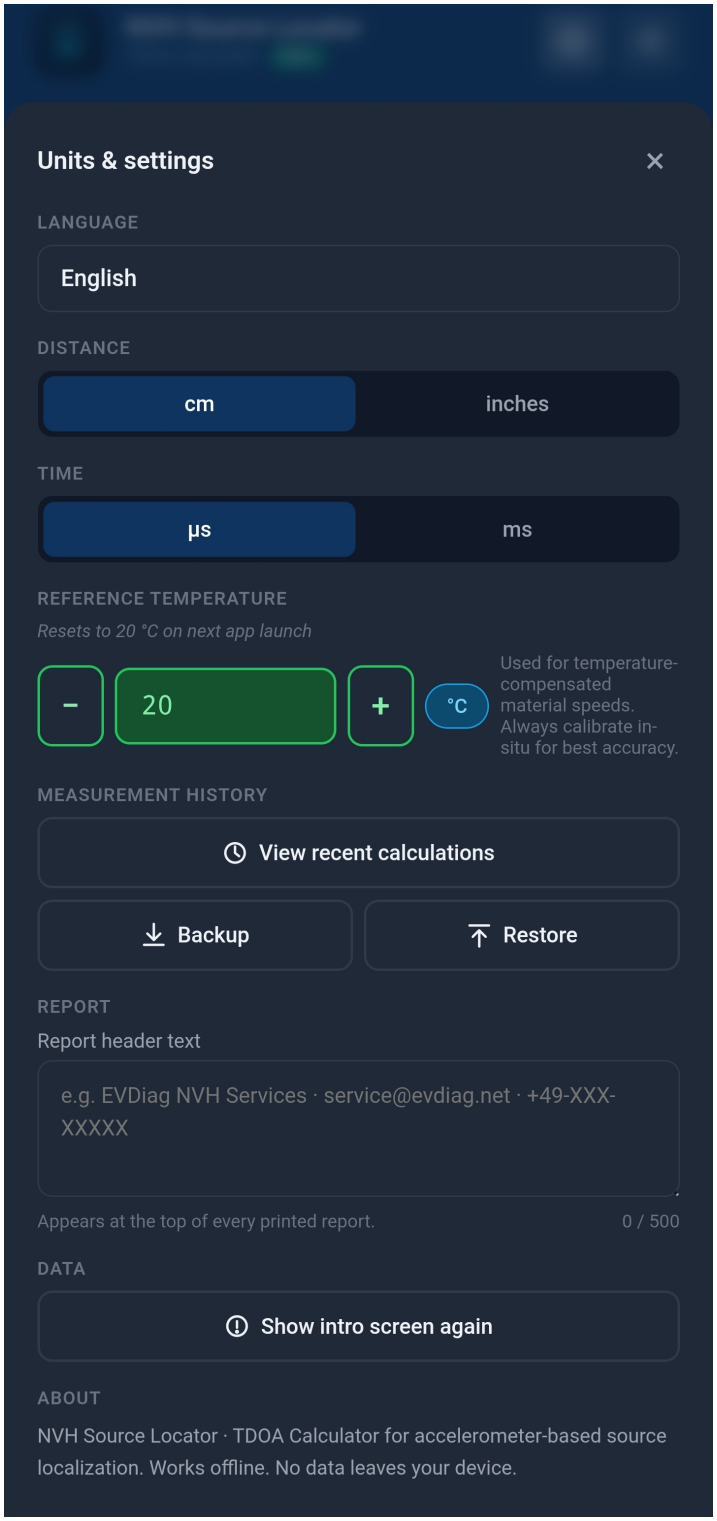
[redacted]. [redacted] [redacted].

[redacted]

[redacted] NVH [redacted]: 80 °C■ [redacted], -10 °C■ [redacted], [redacted] 200 °C■ [redacted].

[redacted]

[redacted] (■ [redacted]) → [redacted]. [redacted] °C■ [redacted] (■■ -40■■ +200).



■■ ■■

■■ ≠ 20 °C■ ■ ■■■■ ■

- ■■ ■■ ■■■ ■■ ■■ ■■■ ■■ ■■■■■
- Materials ■■■■ ■■■ ■■■ ■■■■■ ■■■■■
- ■■■■ ■■■■■: *"■■■■ ■■ (6,284 m/s @ 60 °C) — N ■ ■■■■■"*
- "■■ ■■■ ■■" ■■■ ■■ ■■■ ■■■ ■■■■■
- ■■■ ■■ ■■■ ■■ ■■■ ■■■■■

- [redacted]: *"[redacted]: 60 °C, [redacted]"*

[redacted]

[redacted] **20 °C**[redacted]. [redacted]. [redacted] [redacted]. [redacted] [redacted] [redacted].

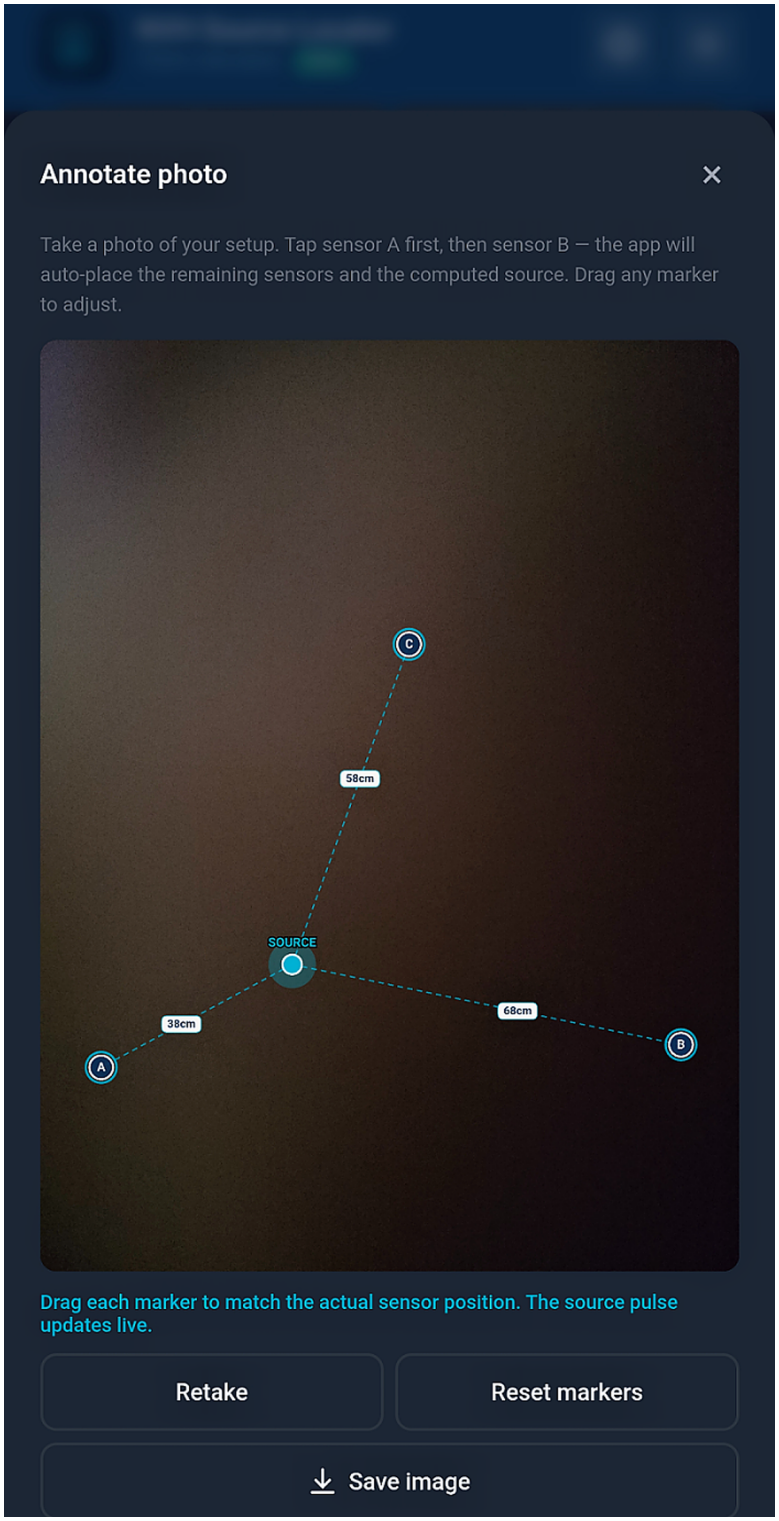
[redacted] — [redacted].

[redacted]

[redacted]. [redacted] **"ref only"** [redacted] — [redacted]. [redacted] in-situ [redacted].

[redacted] {#photo-annotation}

[redacted].


Annotate photo
Take a photo of your setup. Tap sensor A first, then sensor B — the app will auto-place the remaining sensors and the computed source. Drag any marker to adjust.
C
58cm
SOURCE
38cm
68cm
A
B
Drag each marker to match the actual sensor position. The source pulse updates live.
Retake
Reset markers
Save image

■■ ■■

■■

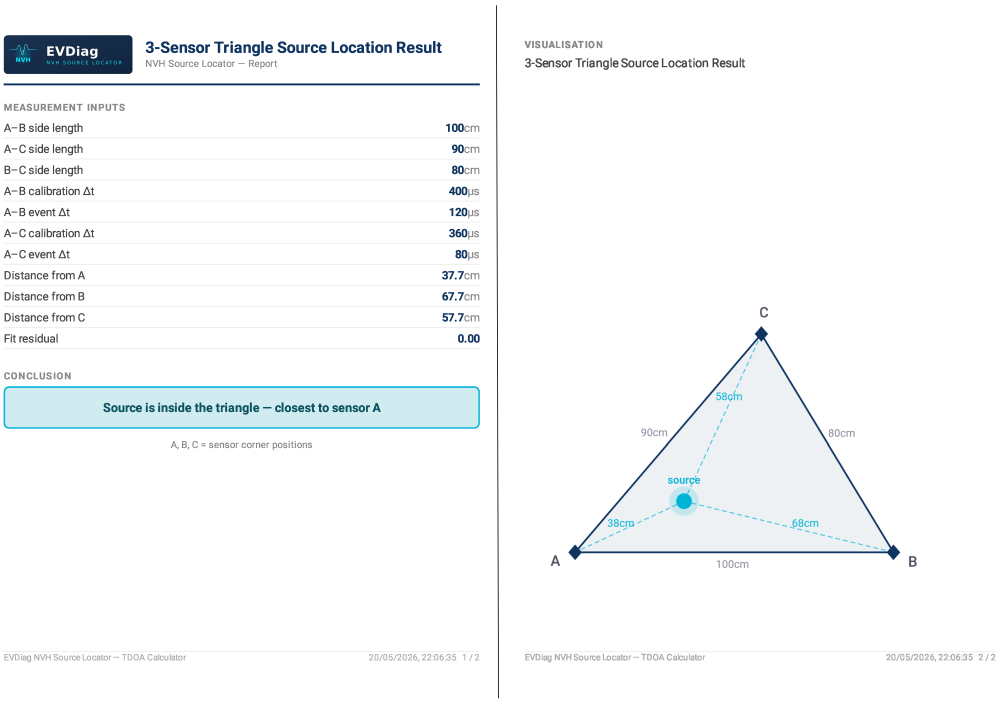
- ■■ ■■ ■ — ■■■ ■■■■ ■■■■
- ■■ ■■ ■■ ■■
- ■■ ■■■ ■■ ■■■■■ ■■■■■
- ■■ ■■(■■■■ ■■ A, B, C, D, E, F — ■■ 6■ ■■)■ ■■ ■■■ ■■■ ■■■■ ■■ ■■■■■
- ■■■ ■■ ■■■■■ ■■■ ■■■ ■■■■■■■. ■■■■ ■■ ■■■ ■■■ ■■ ■■■■ ■■ ■■■■■

- [redacted]

[redacted] PDF [redacted].

[redacted] {#reports}

[redacted].



EVDiag NVH SOURCE LOCATOR

3-Sensor Triangle Source Location Result

NVH Source Locator — Report

MEASUREMENT INPUTS

A–B side length	100cm
A–C side length	90cm
B–C side length	80cm
A–B calibration Δt	400µs
A–B event Δt	120µs
A–C calibration Δt	360µs
A–C event Δt	80µs
Distance from A	37.7cm
Distance from B	67.7cm
Distance from C	57.7cm
Fit residual	0.00

CONCLUSION

Source is inside the triangle — closest to sensor A

A, B, C = sensor corner positions

EVDiag NVH Source Locator — TDOA Calculator 20/05/2026, 22:06:35 1 / 2

VISUALISATION

3-Sensor Triangle Source Location Result

EVDiag NVH Source Locator — TDOA Calculator 20/05/2026, 22:06:35 2 / 2

PDF [redacted]

[redacted]

- [redacted] ([redacted] → [redacted] [redacted] [redacted] [redacted])
- [redacted] [redacted] [redacted] [redacted]
- [redacted] [redacted] [redacted] [redacted]
- [redacted] [redacted]
- [redacted] [redacted]
- [redacted] ([redacted] [redacted])
- [redacted] [redacted] [redacted] ([redacted] [redacted])
- [redacted] [redacted] [redacted] ([redacted] [redacted] [redacted])
- [redacted] [redacted] [redacted] [redacted]

[redacted]

- **Android**: [redacted] PDF [redacted], [redacted] [redacted] [redacted]
- **iOS**: [redacted] [redacted] [redacted] [redacted] → PDF[redacted] [redacted], AirPrint, [redacted] [redacted]

[redacted]

[redacted] → [redacted]. [redacted], [redacted], [redacted], [redacted], [redacted] [redacted] [redacted] [redacted] [redacted] [redacted].

[redacted] [redacted] [redacted] {#backup-and-restore}

[redacted] [redacted] [redacted], [redacted], [redacted], [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted].

[redacted]

[redacted] → [redacted] → "[redacted] [redacted] [redacted]"[redacted] [redacted]. [redacted] JSON [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted](Google Drive, iCloud, OneDrive)[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted].

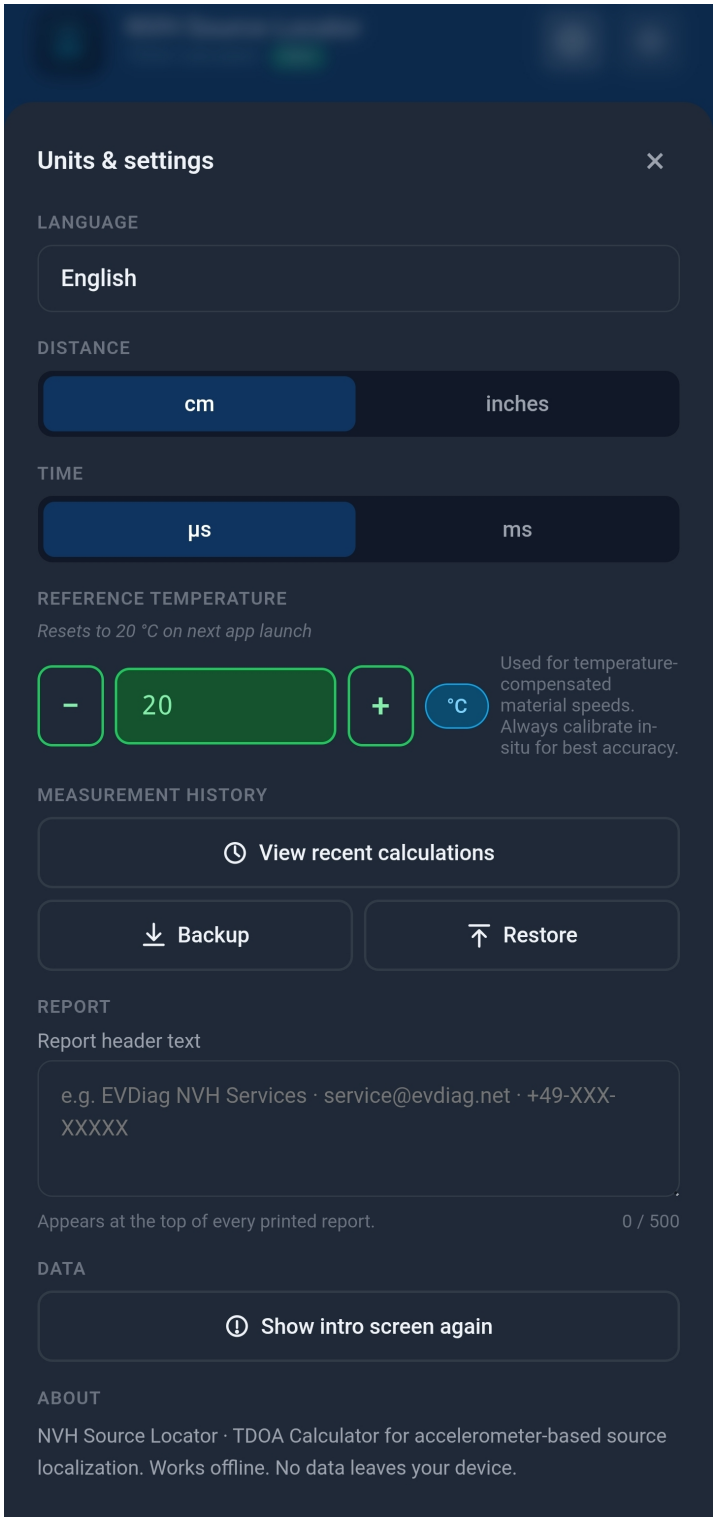
[redacted]

[redacted] → [redacted] → [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted], [redacted], [redacted], [redacted] [redacted].

[redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted].

[redacted] {#settings}

[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted].



■■	■■■■ ■
Pro■ ■■■■■	Pro ■■ ■■ ■■ ■■ ($19.99)
■■	■ ■■ ■■ (30■ ■■)
■■	■■, ■■■, ■■ ■■ (■■■ ■■■)
■■ ■■	cm ■■ ■■
■■ ■■	■■■ ■■ ■■ ■■, -40■■ +200 °C
■■■ ■■	■■■ ■■■ ■■■ ■■■ ■■ ■■■

■■	■■ ■■■■ ■■■ ■■■■
■■	■■ ■■■■ ■■■ ■■■■
■■ ■■	■ ■■■■ Pro ■■■

Pro ■■ {#pro-features}

NVH Source Locator■ ■■ ■■ **freemium** ■■■ ■■■■■:

• ■■: 2-Sensor ■■ ■■ ■■ ■■■ ■■■■■

• **Pro**: ■■ ■■ ■■■ ■■ ■■ ■■■ ■■ ■■■■. ■■ ■■■■ ■■ ■■■ ■■■ paywall■ ■■■■■

■■ ■■

Pro ■■ ■■■ ■■■ ■■■ ■■■■:

• 3-Sensor, 3-Sen+, 4-Sensor, 4-Sen+

• 3D ■ 3D+ ■■

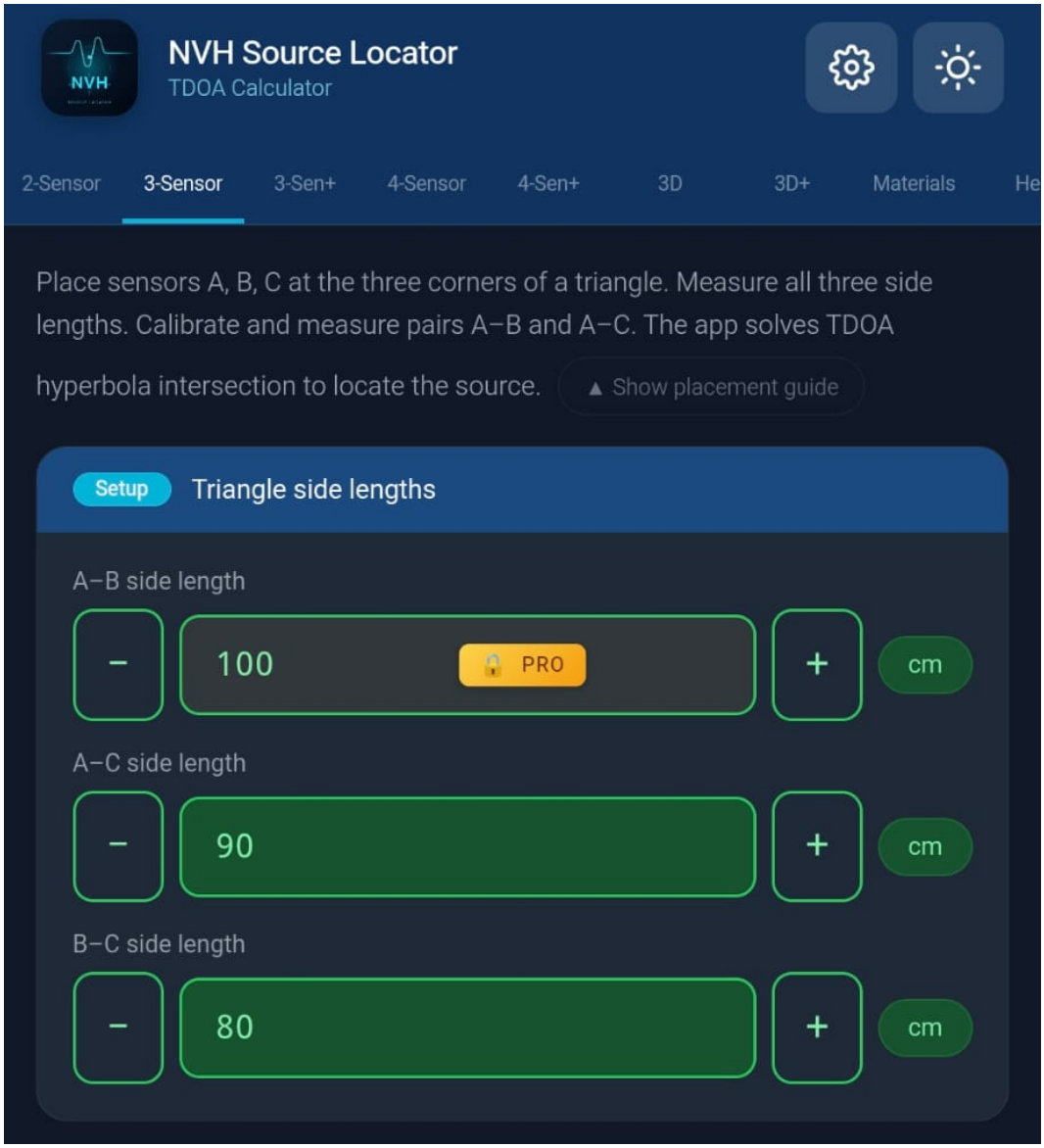
• ■■ ■ ■■

• PDF ■■■

• ■■■ ■■ ■■

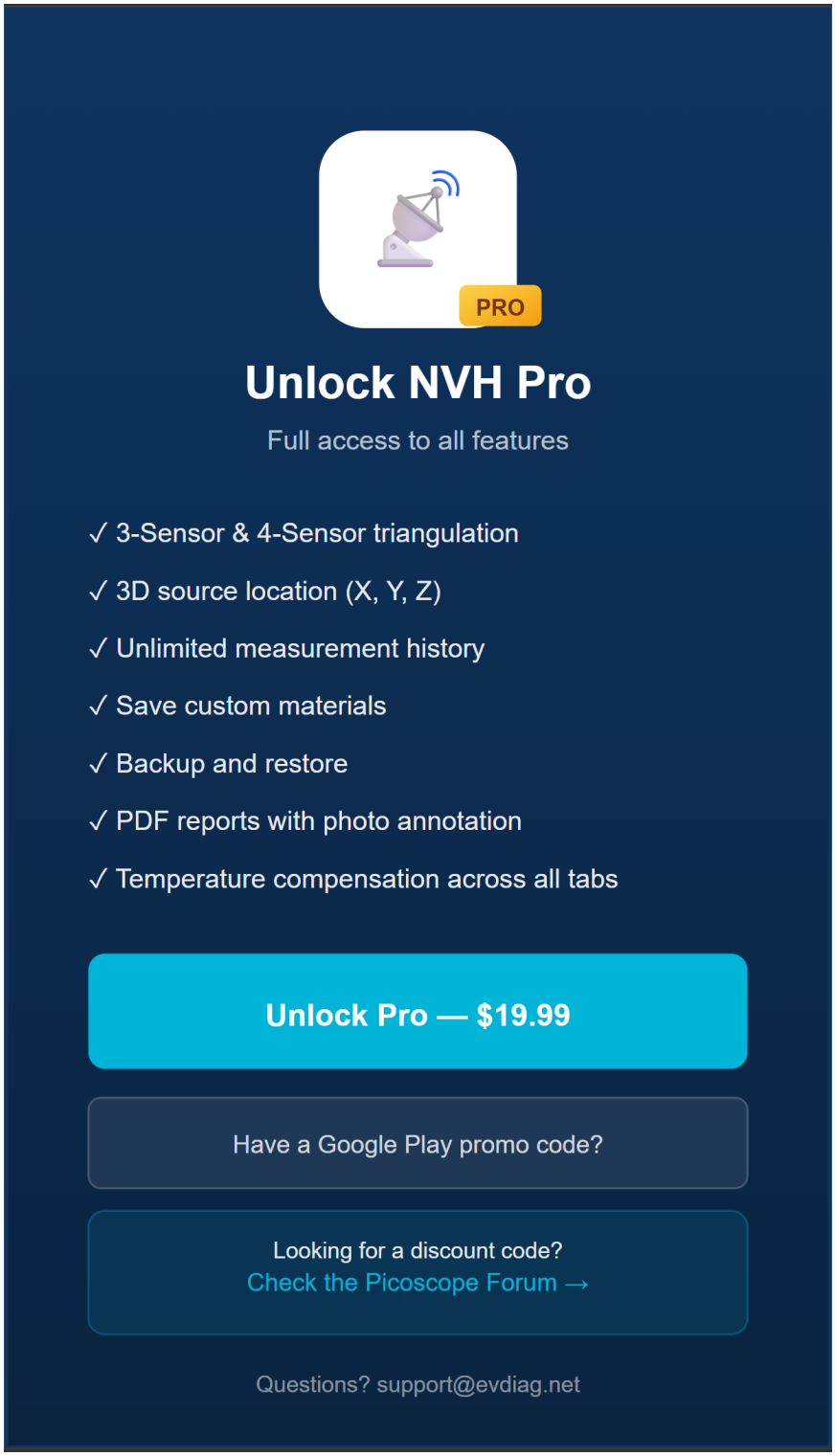
• ■■ ■■

■■ ■■■■ ■■ ■■ ■■ ■■■■■■ ■ ■ ■■■■. Pro ■■ ■■ ■■■ ■■ ■■■ ■ ■■ ■■■■.


NVH
NVH Source Locator
TDOA Calculator
2-Sensor
3-Sensor
3-Sen+
4-Sensor
4-Sen+
3D
3D+
Materials
Place sensors A, B, C at the three corners of a triangle. Measure all three side lengths. Calibrate and measure pairs A–B and A–C. The app solves TDOA hyperbola intersection to locate the source.
▲ Show placement guide
Setup
Triangle side lengths
A–B side length
100
PRO
cm
A–C side length
90
cm
B–C side length
80
cm

Pro ■■ ■■

Paywall



Paywall

[redacted] [redacted] [redacted] [redacted] [redacted] paywall[redacted] [redacted] [redacted] [redacted]:

• PRO [redacted] [redacted] [redacted] [redacted]

• [redacted] [redacted]

• [redacted] [redacted] [redacted] [redacted] [redacted] ($19.99 [redacted]; [redacted] [redacted] [redacted] [redacted] [redacted])

• [redacted] [redacted] [redacted] (Android[redacted] [redacted] — iOS[redacted] Apple[redacted] [redacted] Offer Code [redacted] [redacted])

• [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

Pro [redacted]

[redacted] [redacted] [redacted] [redacted] **Pro**[redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted] [redacted] (Android[redacted] Google Play, iOS[redacted] Apple App Store).

[redacted] [redacted] Pro [redacted]

[redacted] [redacted] [redacted] [redacted] [redacted]([redacted] [redacted])[redacted] Pro[redacted] [redacted] [redacted]:

• [redacted] [redacted] [redacted] Google [redacted] (Android) [redacted] Apple ID (iOS)[redacted] [redacted]

• [redacted] [redacted] NVH Source Locator[redacted] [redacted]

• [redacted] → [redacted] [redacted] [redacted]

• [redacted] [redacted] [redacted] [redacted] [redacted] Pro[redacted] [redacted] [redacted]

[redacted] [redacted] [redacted] [redacted]

NVH Source Locator[redacted] [redacted] [redacted] [redacted] Google Play [redacted] [redacted] App Store[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] Pro[redacted] [redacted] [redacted] — [redacted] [redacted] [redacted] [redacted].

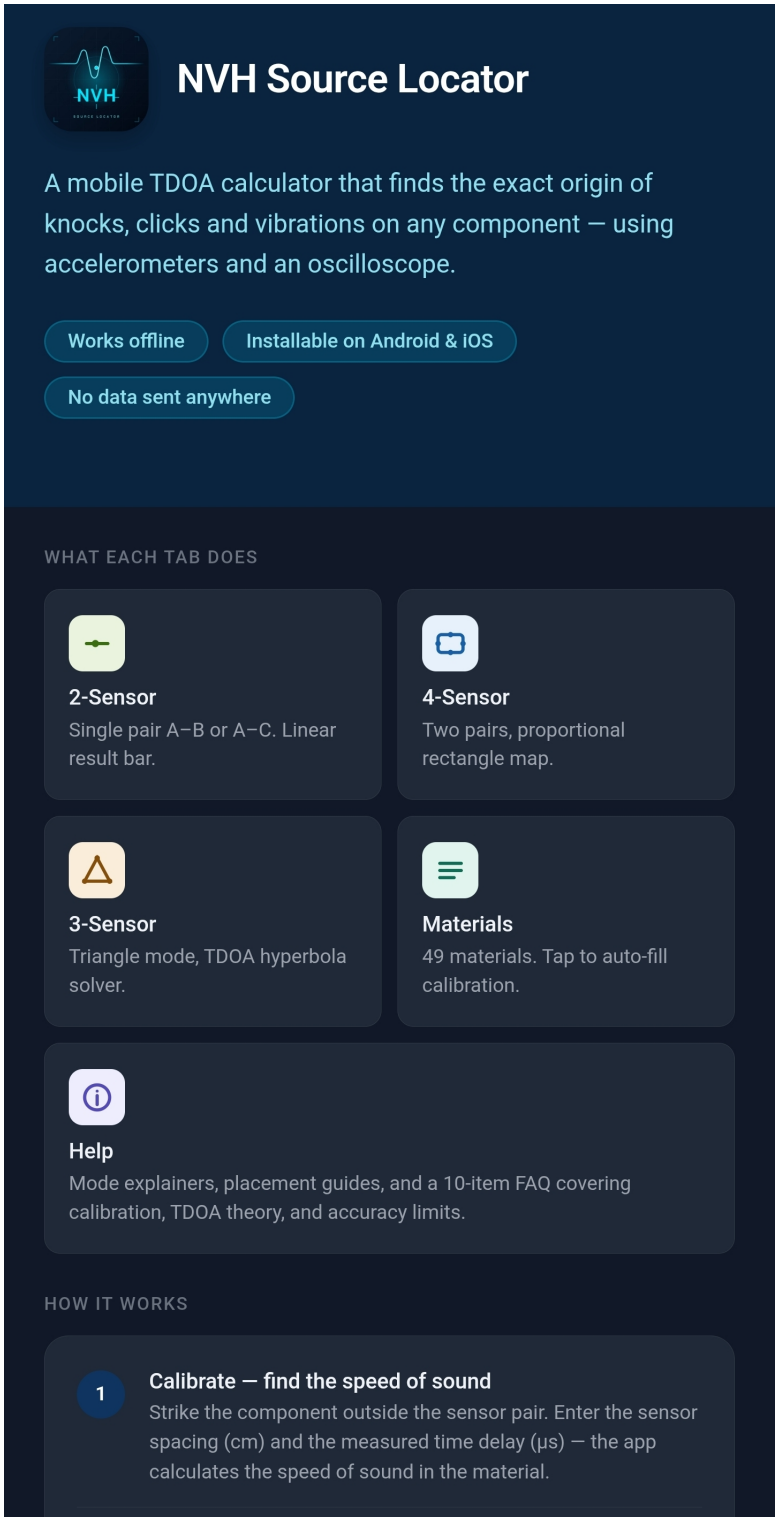
[redacted] [redacted] [redacted]

Android: paywall[redacted] "Google Play [redacted] [redacted] [redacted]?" [redacted] [redacted] [redacted] [redacted] Google Play [redacted] [redacted] [redacted].

iOS: App Store [redacted] 3.1.1[redacted] Apple[redacted] [redacted] "[redacted] [redacted]" [redacted] [redacted] [redacted] [redacted]. Google Play [redacted] iOS[redacted] [redacted] [redacted]. [redacted] [redacted] "App Store [redacted] [redacted]"[redacted] [redacted].

Help [redacted] [redacted] [redacted] {#help-tab-and-tutorials}

Help [redacted] [redacted] [redacted] [redacted], [redacted] [redacted] [redacted], [redacted] [redacted] [redacted] [redacted].



Help ■

[redacted]:

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted] 3D [redacted]

• [redacted]

[redacted] {#troubleshooting}

[redacted]

• [redacted]. [redacted] `tCal`[redacted] [redacted] [redacted] [redacted] — [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] in-situ[redacted]: [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted].

• [redacted] [redacted] [redacted] [redacted] [redacted] — [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted].

• [redacted] [redacted] [redacted]. [redacted] mm[redacted] [redacted] [redacted].

Toast[redacted] "[redacted] [redacted] [redacted]"[redacted] [redacted]

[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted]:

• [redacted] [redacted] [redacted] [redacted]/[redacted] [redacted] [redacted]

• [redacted] [redacted] [redacted] [redacted]

• [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

[redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] (50 m/s [redacted] [redacted] 20,000 m/s [redacted]). [redacted] [redacted] — tCal [redacted] [redacted] [redacted] [redacted] [redacted].

Materials [redacted] [redacted] [redacted] [redacted] [redacted]

[redacted] [redacted] [redacted] [redacted]. 20 °C[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted] "ref X @ 20°C"[redacted] [redacted] [redacted] [redacted] [redacted].

[redacted] [redacted] [redacted] [redacted] [redacted]

[redacted] [redacted] 1.75 [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. 20 °C[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted].

[redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

[redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] — [redacted] [redacted] [redacted] [redacted] [redacted] [redacted].

[redacted]/[redacted] [redacted]

[redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]. [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted].

[redacted] [redacted] "[redacted] [redacted] [redacted] [redacted]"[redacted] [redacted] [redacted]

• [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

• [redacted] [redacted] [redacted] [redacted] [redacted] [redacted]

• [redacted] [redacted] [redacted] [redacted] [redacted] ([redacted] [redacted] [redacted] [redacted] [redacted] [redacted] [redacted])

• [redacted] [redacted] support@evdiag.net[redacted] [redacted]

[redacted] [redacted] [redacted] [redacted] 0[redacted] [redacted]

[redacted]: [redacted] (**[redacted]**) [redacted] 0[redacted]. [redacted]. [redacted] (**[redacted]** -40/+200[redacted]).

[redacted]

[redacted] `support@evdiag.net`[redacted]:

- [redacted] OS [redacted]
- [redacted] (**[redacted]** → [redacted])
- [redacted]
- [redacted]

NVH Source Locator[redacted] *EVDiag*[redacted]. [redacted] *https://evdiag.net*[redacted].