



2D
SCANNER



PIONEERING MEASUREMENT TOOL

What is the 2D Scanner EVO?

2Dscanner is a device for capturing interior spaces.

It rotates in a XY plane and measures angle and distance. The points extracted are automatically processed by the smart application in real time. During scanning, the user has full control of the device. The final result is a DXF file editable by all CAD software programs. CSV and TXT files are exported as well.



What it does

Automatic scanning: The 2D Scanner starts scanning and will stop when a cycle is completed. During this time, the user can only control the scanning step and can choose to interrupt it before completion. There is an option to preset the start and end of scanning.

Combo scan: The user has complete control of the device. They can scan areas or individual points, rescan the same area, and combine two scans.

Can be used as a simple rangefinder: The 2D Scanner can also function as a simple laser rangefinder.

Point cloud: The point cloud of the 2D Scanner consists of discrete points rather than randomly scattered points. This provides accuracy and ease of use. When straight lines are detected, the application displays them, and they are exported to DXF.

Scan combination: The 2D Scanner can combine consecutive scans using reference points defined by the user.

Vertical scanning: Yes. It can be done vertically or inclined. The 2D Scanner has a high-precision accelerometer. Horizontal scans are automatically corrected as if the device were perfectly aligned. Vertical or inclined scans are automatically detected.

How it works

1. Place 2dscanner at the center of the room
2. Open the app from your mobile device.
3. Connect with bluetooth
4. Start Auto Scanning or Combo Scanning.
5. 2dscanner will start delivering points.
6. Tap Save when you are done.

Extras

- Many options available from the app
- Multilingual App. Available at: English, French, Italian, German, Greek
- Combination of scans
- File Manager
- Also works as a simple laser rangefinder



Enhanced Features of Our 2D Scanner:

- **Portability:** Easily transportable for convenient use anywhere.
- **Fast:** 2000 points in 4 minutes in fast mode.
- **Extended Battery Life:** Enjoy longer operation with a rechargeable Li-Ion 18650 battery.
- **User-Friendly Setup:** No specialized personnel required for installation.
- **Advanced Drawing Algorithm:** Utilizes tracing lines for precise and tidy drawings.
- **Versatile Usage:** Ideal for interior mapping and suitable for various outdoor applications.
- **Personalized Settings:** Tailor settings through the intuitive 2D Scanner mobile app.
- **Seamless Data Export:** Export data in DXF and CSV formats compatible with all design applications.
- **Laser Rangefinder Functionality:** Doubles as a simple and accurate laser rangefinder.
- **Exceptional Precision:** Achieve accuracy within $\pm 2\text{mm}$ at 7m and $\pm 3\text{cm}$ at 40m.
- **Simplified Measurement:** Eliminates the need for complex patterns or difficult measuring methods.
- **Stress-Free Manufacturing:** Our 2D Scanner alleviates manufacturer stress and streamlines processes.
- **No need of expertise:** Easily measure anything, accessible users of all experience levels.



AMAZING FEATURES



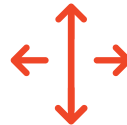
Pay once, scan forever.
No subscription fees.



All the measurements
ready at your disposal
immediately.



Real time view of results
and dimensions when
possible.



Suitable for horizontal
or vertical Scans.



Ideal for

- **For Architects:** Ensure precise floor plans with accurately measured angles.
- **For Civil Engineers:** Eliminate uncertainties in your surveys.
- **For Surveyors:** Save time and ensure the accuracy of your surveys.
- **For Carpenters:** Say goodbye to on-site cutting. Prepare everything in your workshop beforehand.
- **For All Technical Professions Requiring Exact Measurements:** Introducing 2DScanner – revolutionizing the way you measure.

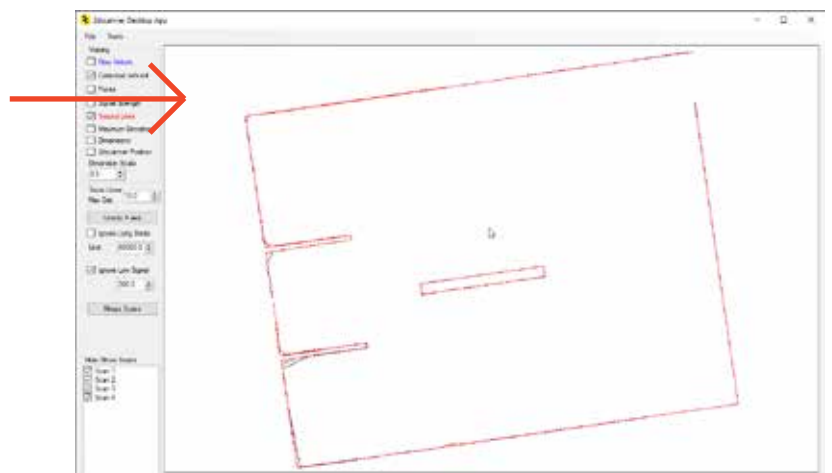
Android/iOS Smart App

- Very simple and straightforward
- Real Time View of Drawing
- Take Notes when you scan
- Delete mistaken points
- Automatic or Combo Scan
- Very well documented help system
- **Smart Scan function.**
Automatically gets more points at corners and details. Leaves straight lines with less points.



Free windows software

- The editor app is perfect for faster adjustments of your scans
- Delete points, rotate the drawing
- Check the signal of the measurements
- Automatically merge your multiscans and get a cleaner DXF
- Trace Lines with adjustable tolerance
- Create thumbnails.



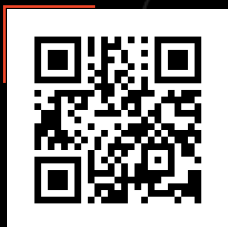
Specifications:

- **Weight:** 485 gr
- **Dimensions:** 102mm X 102mm X 51mm
- **Color:** Black
- **IP class:** IP54
- **Shell material:** Nylon
- **Drop resistance:** Designed to withstand free fall from a height of 1.5m without affecting measurement accuracy.
- **Case:** Protective Hard PU Case with foam walls and zipper.
- **Charging:** USB-C
- **Charging time:** 4 hours
- **Charging power:** 1A. Even with a powerful charger, the 2D Scanner limits the charging current for longer battery life and safety. Faulty batteries are automatically detected. Charging is interrupted, and a relevant message appears on the screen.
- **Voltage:** 3.3V
- **Communication protocol:** Classic Bluetooth and BLE. Both modes are supported in 2D Scanner EVO. Compatibility with Android and iOS devices.
- **Bluetooth range:** 40 meters.
- **Distance accuracy:** $\pm 1\text{mm}$
- **Angle accuracy:** ± 0.018 degrees
- **Maximum measurement distance:** 40 meters
- **Minimum measurement distance:** 0.20 meters
- **Number of points:** 2000 per rotation
- **Combined accuracy in scans:**
 - o Indoor spaces: Within a scanning radius of 7m: $\pm 2\text{mm}$ Within a scanning radius of 40m: $\pm 50\text{mm}$.
- **Outdoor spaces in daylight:**
 - Within a scanning radius of 7m: $\pm 4\text{mm}$.
 - Within a scanning radius of 40m: $\pm 7\text{cm}$.
- **Laser technology:** Phase shifting. (Lower speed than TOF, better precision)
- **Laser speed:**
 - Fast mode: 2000 points in 4 minutes
 - Slow mode: 300-600 milliseconds
- per measurement. Depends on conditions. In real conditions 12-15 minutes for 2000 points.
- **Smart Scan:** Automatically adjusts the point cloud to focus in details. Reduces time needed in normal rooms.
- **Wavelength:** 635nm, Class 2
- **Laser Hazardous Class:** Classified according to IEC 60825-1-2014. Visible beam, low power. Eye blink response provides protection.
- **Laser lifetime:** 20,000 hours in continuous measurement mode. In practice, it will never reach this point of use.
- **Rotation:** 360 degrees without restriction. It can rotate continuously. There is no terminal switch.
- **Battery:** 18650 rechargeable and replaceable. 4.2V- 3000 mAh
- **Autonomy in full operation:** 4 hours
- **Autonomy in points:** About 20000 (10 scans with 2000 points or 40 scans with 500 points)
- **Exported files:** DXF, CSV points, TXT. The DXF contains all scans made with the straight lines. All CAD programs can import DXF. CSV contains points with X, Y coordinates. TXT has a standardized format that can be understood and opened by the 2D Scanner's Windows Editor.

Help documentation & Downloads

You can get more information about 2dscanner from the following sources.

Website



Faq



Help



Download



Social Media

Join our social network and stay Tuned for updates and news.

Facebook



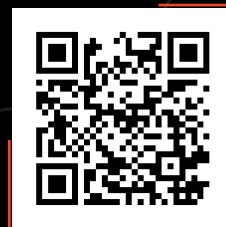
Instagram



Tik Tok



Youtube



Contact us

E-mail: info@2dscanner.com

Phone: +30 697 818 6223



2D
SCANNER