



## What is a pointcloud?

A pointcloud is a collection of data points scanned by a 3D scanner, such as the Matterport Pro 2 or Pro 3. These points are then combined to create a 3D model (or digital twin) of the object or area.

## What is an E57 file, and why do I need it for Matterport scanning?

The E57 add-on file, enabled by Matterport's Cortex AI, allows Matterport users to easily extract high-density pointclouds and utilize them in complex 3D design workflows.

The E57 file type is a compact, vendor-neutral pointcloud format that is defined by the ASTM E2807 standard. It is like a PDF of the 3D world.

By using Matterport and E57 files, AEC professionals can unlock several powerful benefits, including:

- Streamline the conceptualization of designs with a more detailed understanding of the space.
- Collaborate more efficiently using Matterport's ecosystem of hardware and software.
- Enhance collaboration between design and construction teams.
- Utilize Matterport digital twins in advanced 3D workflows
- Document and model As-Built conditions, based on their Matterport digital twin.
- Enable the modelling of complex spaces such as Mechanical / Electrical rooms.
- Eliminate the time-consuming and hardware-intensive task of registering your pointclouds.

## Getting started with the Matterport E57 Add-on

If you already have a Matterport scan of your project, the E57 is available for purchase and download on the Add-On's page. If you need hardware to capture your space, you can purchase the Matterport Pro2 and Pro 3 from [Scan](#).

We also offer the Matterport Plugin for Autodesk® Revit®. With this integration, users can connect their Matterport E57 files, MatterPaks, or BIM files directly into Revit projects without any manual downloading, uploading, or conversion.

## What is the Matterpak™ Bundle?

The MatterPak™ Bundle is a set of assets that you can download and import into third-party programs. It contains:

- Colorized point cloud (.XYZ)
- Reflected ceiling plan image
- (.JPG) Multiple files if multiple floors
- (.PDF) All floors in one file
- High-resolution floor plan image (This is NOT the Schematic Floor Plans.) This is similar to the ceiling plan image but of the floor.
- (.JPG) Multiple files if multiple floors
- (.PDF) All floors in one file
- 3D mesh file (.OBJ) including the necessary texture map image files (.JPG)

## Who is the Matterpak™ Bundle for?

The MatterPak™ Bundle is for architects, engineers, and construction professionals who want to import these assets into 3D third-party programs\* (such as 3ds Max, ReCap, Revit, or AutoCAD), perform additional work, and then offer as part of a commercial package to their clients. For example:

- Architects and engineers can use the point cloud to quickly create an as-built model and jump-start their designs.
- Construction professionals can use the ceiling plan and floor plan images for documentation/verification and building turnover packages, or use the point cloud as a part of the QA/QC process.

## How to download a MatterPak™ Bundle

1. Login to Matterport Cloud ([my.matterport.com](https://my.matterport.com))
2. Select the space you want to order a Matterpak™ bundle from
3. When the space opens in Showcase, click the Add-Ons tab, then click the Matterpak card
4. Click the Buy button to purchase your MatterPak™
5. You can also click on Download Sample to download a Pro2 sample MatterPak™

The Matterpak™ Bundle is not available for models with scans from a 360 camera or an iPhone. Models must only contain scans (3D and 360 views) from a Matterport Pro2, Pro3 Lite or Leica BLK360 camera in order to be able to download a Matterpak™ Bundle.