



# PortalCam

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## The First True Spatial Camera

PortalCam is the first handheld device that captures reality as interactive 3D environments using breakthrough 3D Gaussian Splatting technology.

It combines LiDAR, a four-camera array, and automated processing to create photorealistic spatial models you can walk through, edit, and share across platforms.



Ultra-portable at <900g



3DGS Native



Mobile Capture



Photorealistic Models



### Cinematic Quality

Film-grade visual fidelity with true-to-life lighting, textures, and materials.



### One-Touch Simplicity

Smartphone-simple operation—scan 100 m<sup>2</sup> (1,067 sq ft) in 10 minutes at walking speed.



### Detail to Distance

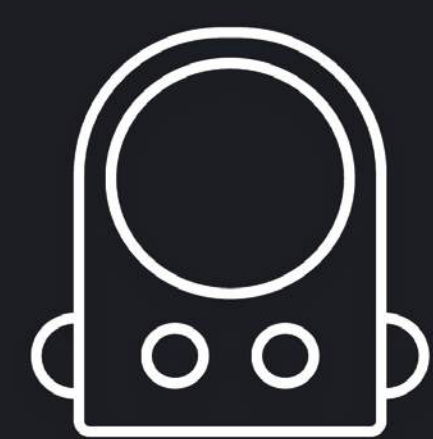
Replicate everything from 2 mm text to 1,000 m<sup>2</sup> parks in one seamless 3D model.



### Create. Share. Experience.

Export to Unreal, Unity, web, and VR platforms via SDKs. Built-in cloud sharing for instant collaboration.

# Four Steps to Spatial Content



Step 1

## Walk & Scan

Walk through any space with PortalCam for automatic 3D capture.



Step 2

## Automated Processing

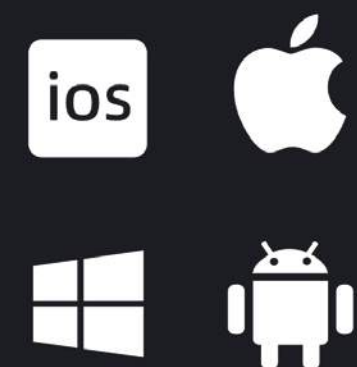
Advanced algorithms automatically generate photorealistic 3D models.



Step 3

## View, Edit, Share

Modify, annotate, and share spatial content across teams and platforms.



Step 4

## Deploy Everywhere

Seamless integration with existing 3D workflows and applications.



# Applications



Real Estate



Film & Virtual Production



Gaming



Cultural Heritage



VR/AR



Personal Archives

# Specs

## Physical Specifications

|                   |                                           |
|-------------------|-------------------------------------------|
| Power Consumption | <19W                                      |
| Body Weight       | 870g (1.9 lbs) without tripod             |
| Dimensions        | 130mm × 90mm × 77mm<br>5.1 × 3.5 × 3.0 in |
| Housing Material  | Aerospace-grade Aluminum Alloy            |

## LiDAR System

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Laser Classification | Class 1/940nm                                                                  |
| Scanning Range       | 0.1m-30m (4 in-98 ft)<br>@ 10% reflectivity<br>60m (197 ft) @ 90% reflectivity |
| Field of View        | 180° azimuth × 180° elevation                                                  |
| Point Rate           | 856,000 points/second                                                          |

## Connectivity & Storage

|                  |                                                                                          |
|------------------|------------------------------------------------------------------------------------------|
| Data Interface   | USB 3.0                                                                                  |
| Internal Storage | 512GB                                                                                    |
| GPS Module       | Supported                                                                                |
| WiFi             | 802.11 a/b/g/n/ac/ax<br>2.4GHz: 2412-2472MHz<br>5GHz: 5180-5240MHz<br>5GHz: 5745-5825MHz |
| Bluetooth        | 5.2                                                                                      |
| Wireless Range   | 20m (65.6 ft)                                                                            |

## Camera System

|                      |                                     |
|----------------------|-------------------------------------|
| Camera Configuration | 4-camera array 2× Fisheye, 2× Front |
| Image Resolution     | 4000 × 3000 px                      |
| Sensor Size          | 1/2" CMOS                           |
| Shutter Type         | Rolling Shutter                     |
| Fisheye Camera FOV   | 200° × 200° (each)                  |
| Front Camera FOV     | 100° × 85° (each)                   |

## Power System

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| Battery Type              | Removable Li-ion                                          |
| Battery Capacity          | 23.04Wh                                                   |
| Operating Time            | 60 minutes (continuous scanning)                          |
| Charging Time (25°C/77°F) | 0-90%: 70 minutes<br>0-100%: 90 minutes                   |
| Operating Temperature     | -20°C to 45°C (-4°F to 113°F)<br>(indirect sunlight only) |
| Charging Temperature      | 5-30°C (41-86°F)                                          |

## Power Adapter

|             |                                                                              |
|-------------|------------------------------------------------------------------------------|
| Input       | 100-240V, 50-60Hz, 1.5A, 80VA                                                |
| Output      | 20V, 2.0A                                                                    |
| Rated Power | PD Protocol, >25W<br>Standard: USB-C 45W single port<br>Dual port: 25W + 20W |

## Accessories

|                                  |          |
|----------------------------------|----------|
| Backpack with Protective Insert  | Included |
| Extension Pole (2m/6.6 ft)       | Optional |
| External Storage (512GB/1TB SSD) | Optional |