XGRIDS



PortalCam

The First True Spatial Camera

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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.



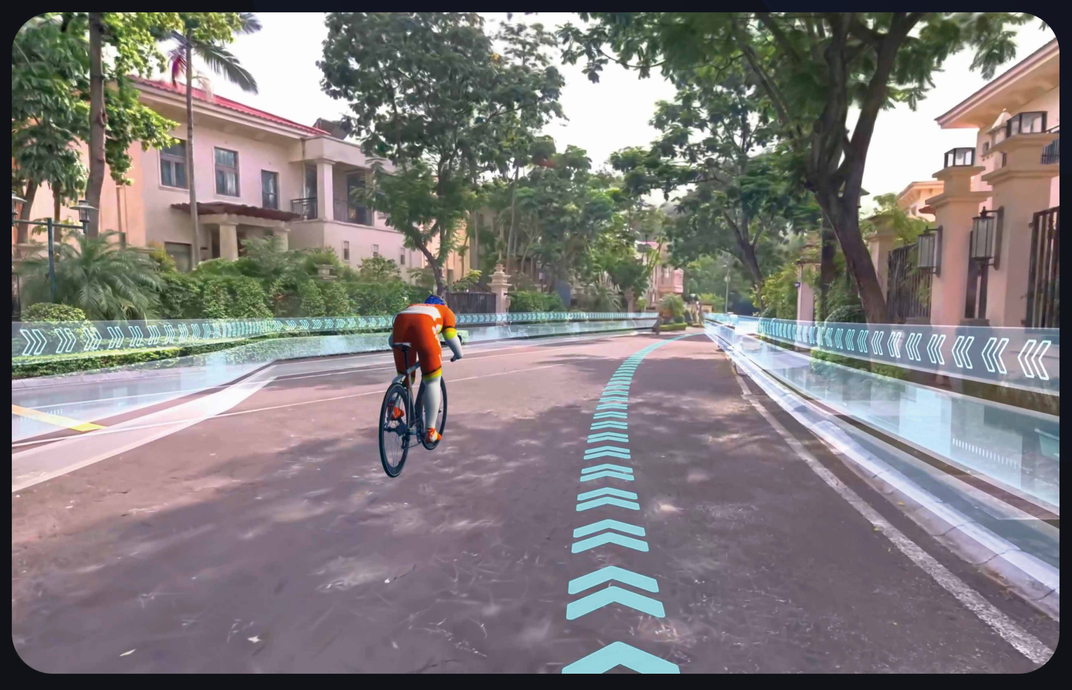
One-Touch Simplicity

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



Detail to Distance

Replicate everything from 2 mm text to 1,000 ㎡ 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

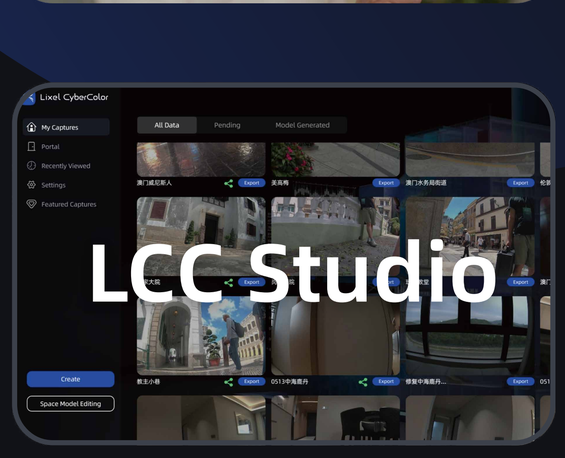
Walk through any space with PortalCam for automatic 3D capture.



Step 2

Automated Processing

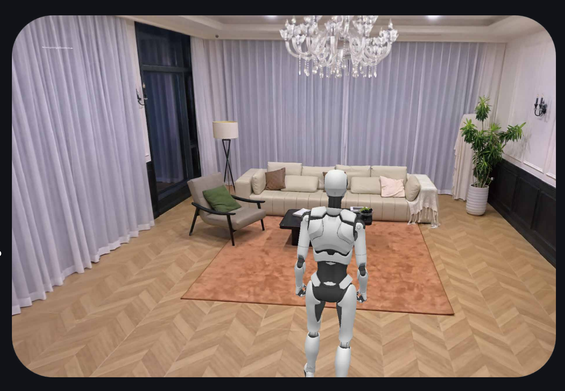
Advanced algorithms automatically generate photorealistic 3D models.



Step 3

View, Edit, Share

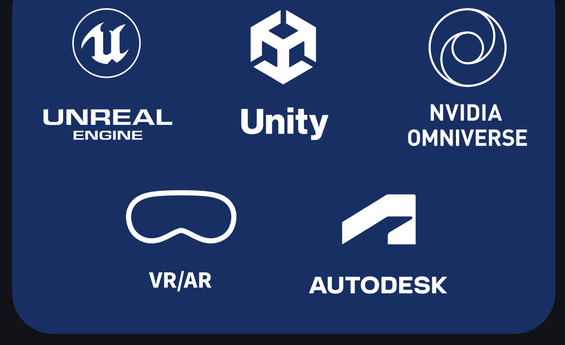
Modify, annotate, and share spatial content across teams and platforms.



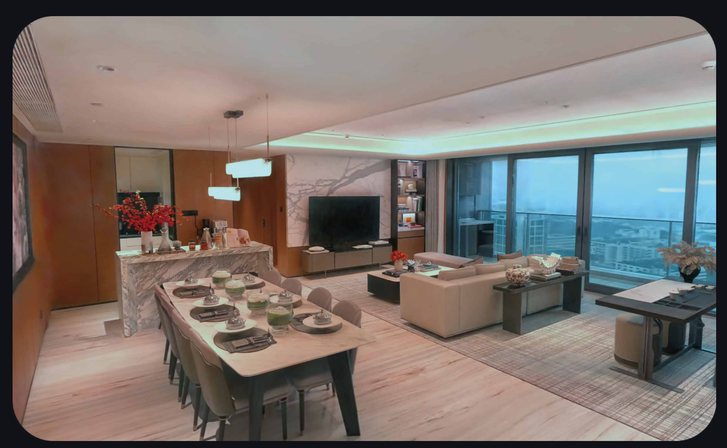
Step 4

Deploy Everywhere

Seamless integration with existing 3D workflows and applications.



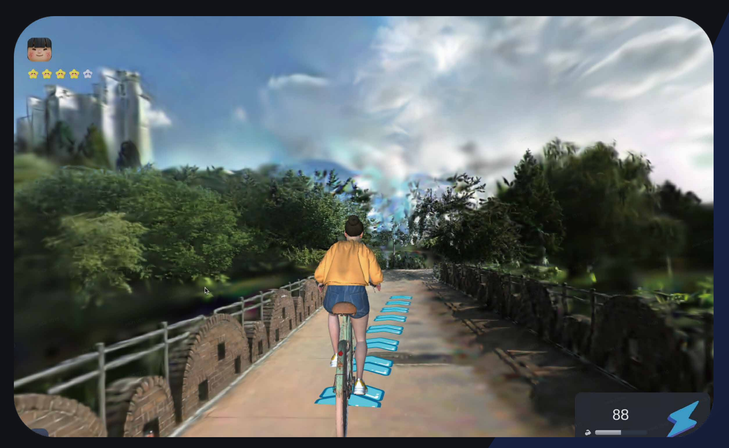
Applications



Real Estate



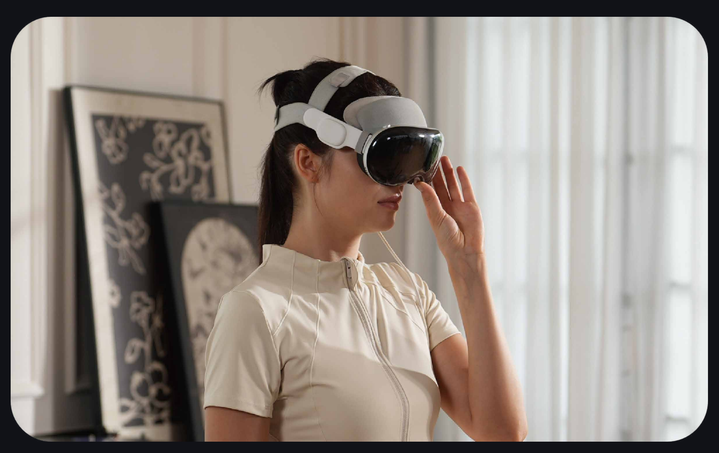
Film & Virtual Production



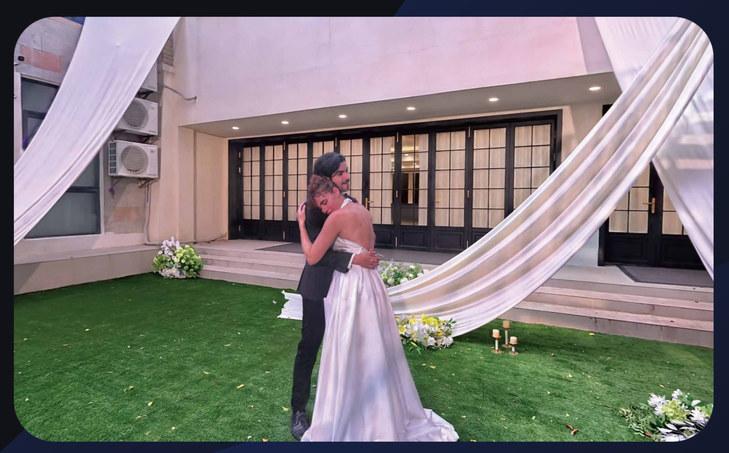
Gaming



Cultural Heritage



VR/AR



Personal Archives

Specs

Physical Specifications

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

Connectivity & Storage

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

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 0-100%: 90 minutes
Operating Temperature	-20°C-45°C (-4°F-113°F) (indirect sunlight only)
Charging Temperature	5°C-30°C (41°F-86°F)

LiDAR System

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

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 Adapter

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

Accessories

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

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