A New Era of Stereo 3D Gaming: Why and How

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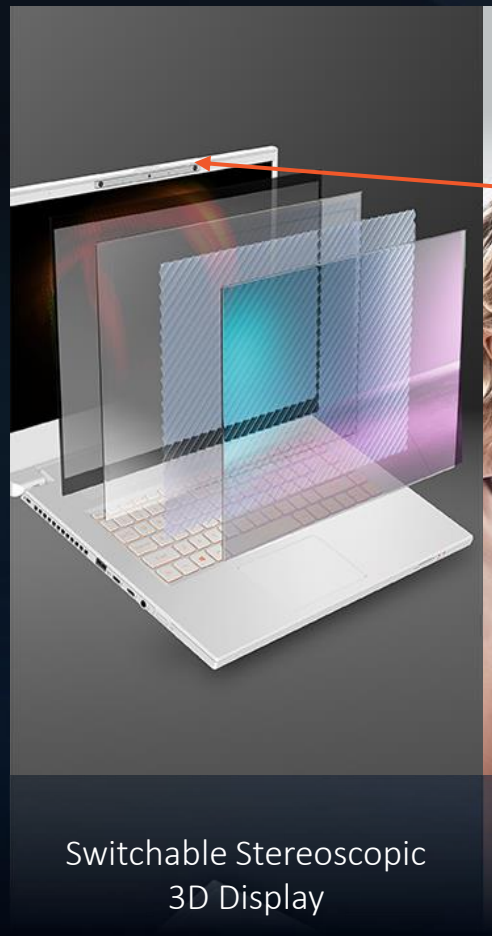
SPATIALLABS™

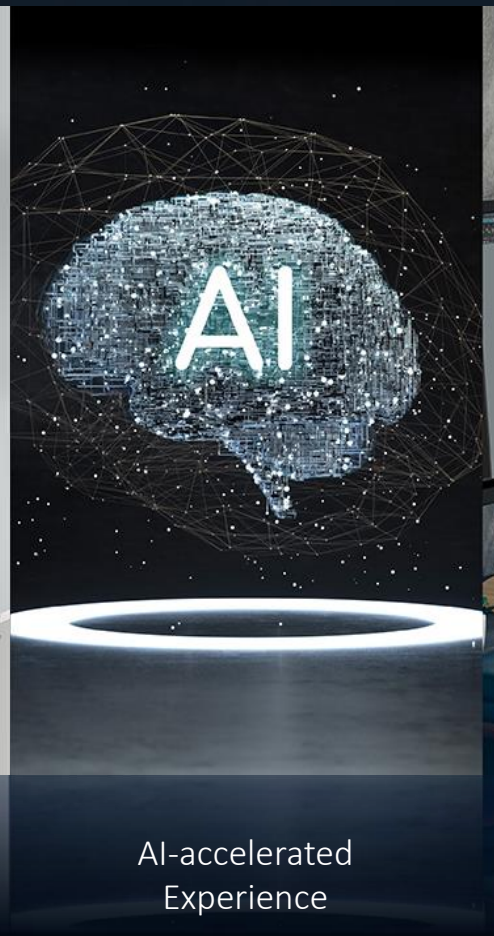
All visual effects are for illustration purposes only

How does Acer SpatialLabs™ Technology work?



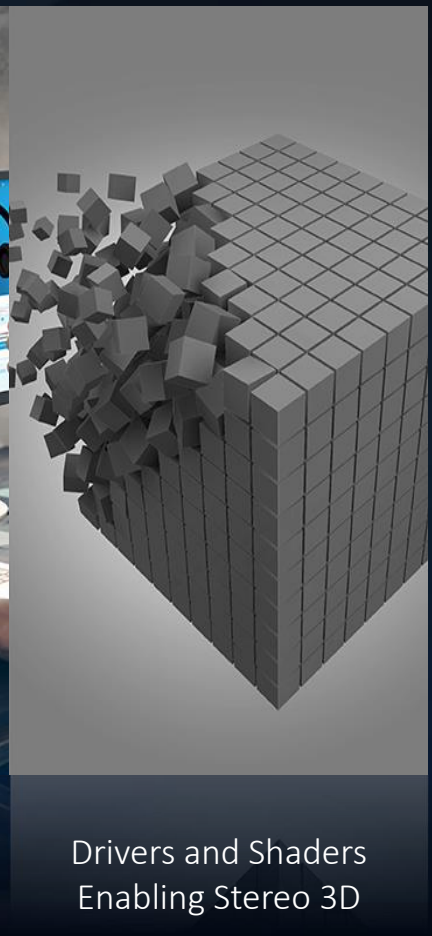
Switchable Stereoscopic 3D Display

Sensory solution Eye-Tracking



AI-accelerated Experience

Real-time Rendering



Drivers and Shaders Enabling Stereo 3D

Acer SpatialLabs Total Solution

For Gamers

SpatialLabs TrueGame

For Creators

Out-of-box ready applications for designers

For Developers

Support Game Engine Plugins

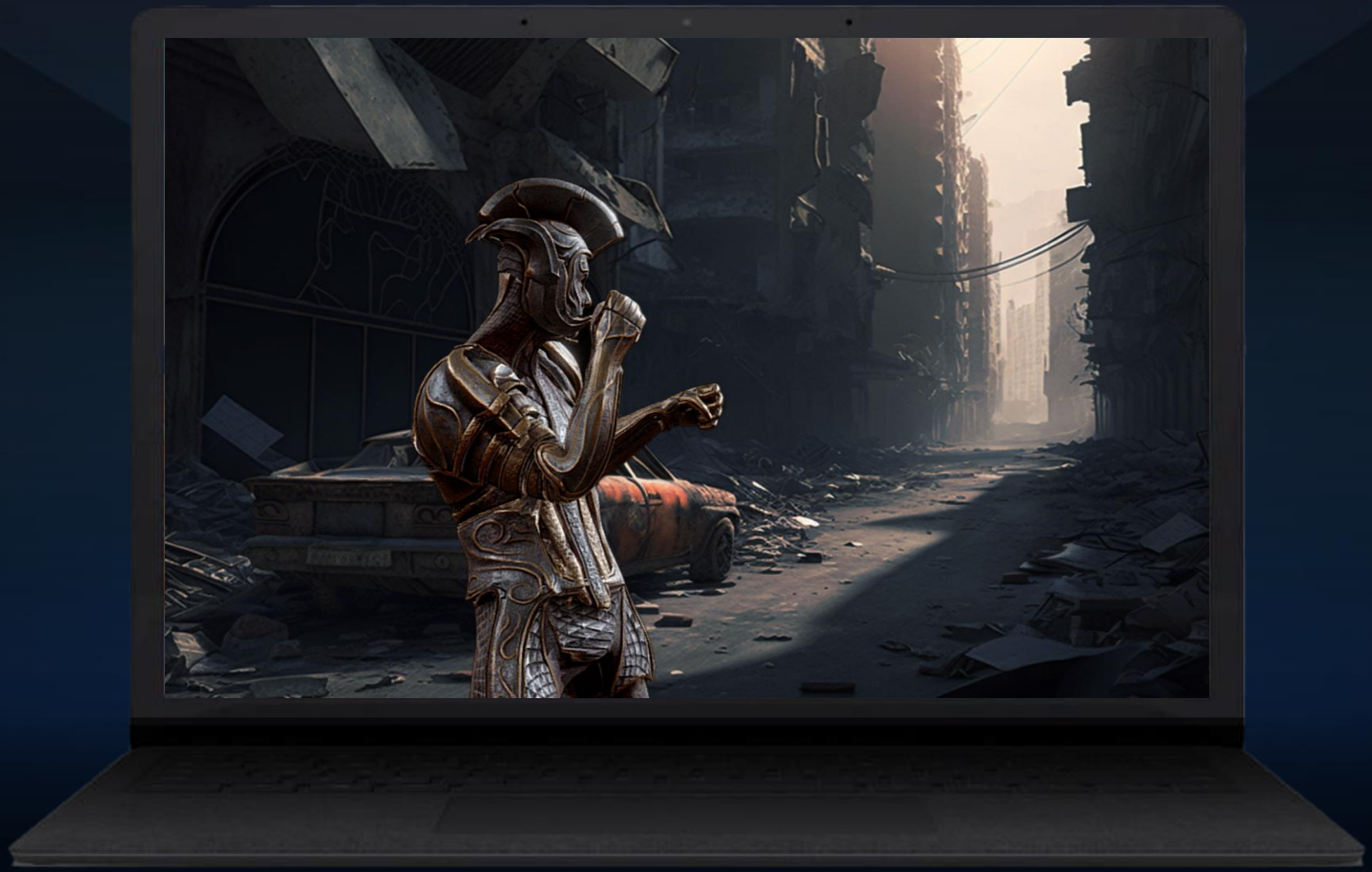
For Tech Adventures

SpatialLabs Go casual & user-generated content

SpatialLabs TrueGame

3D Game Developers Spend Hours and Hours Building 3D Game Scenes, Characters, and Objects

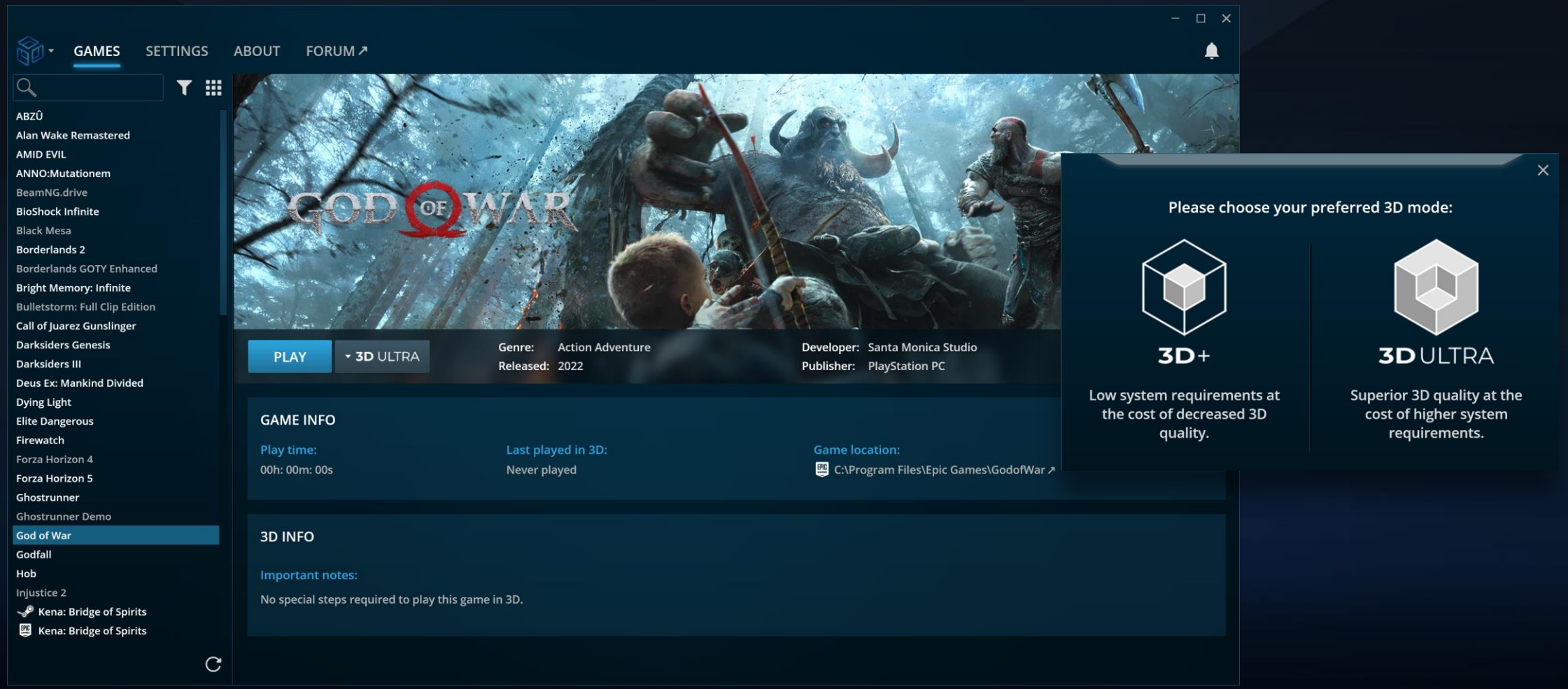
,but trapped in flat displays…



Stereo 3D Game Challenges

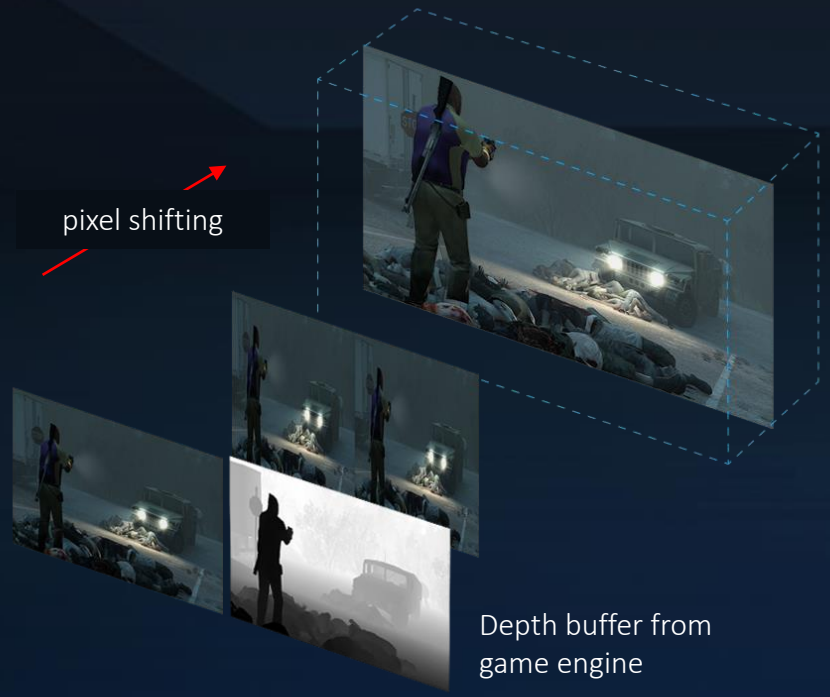
- Lack of Stereo 3D Games
- No User-Friendly Solution to Activate 3D
- Inconsistent 3D Experience

One-Click Stereo 3D Activation



The Ultimate Stereo 3D Gaming Experience

3D+



Post Processing

Shift pixel output
from depth buffer

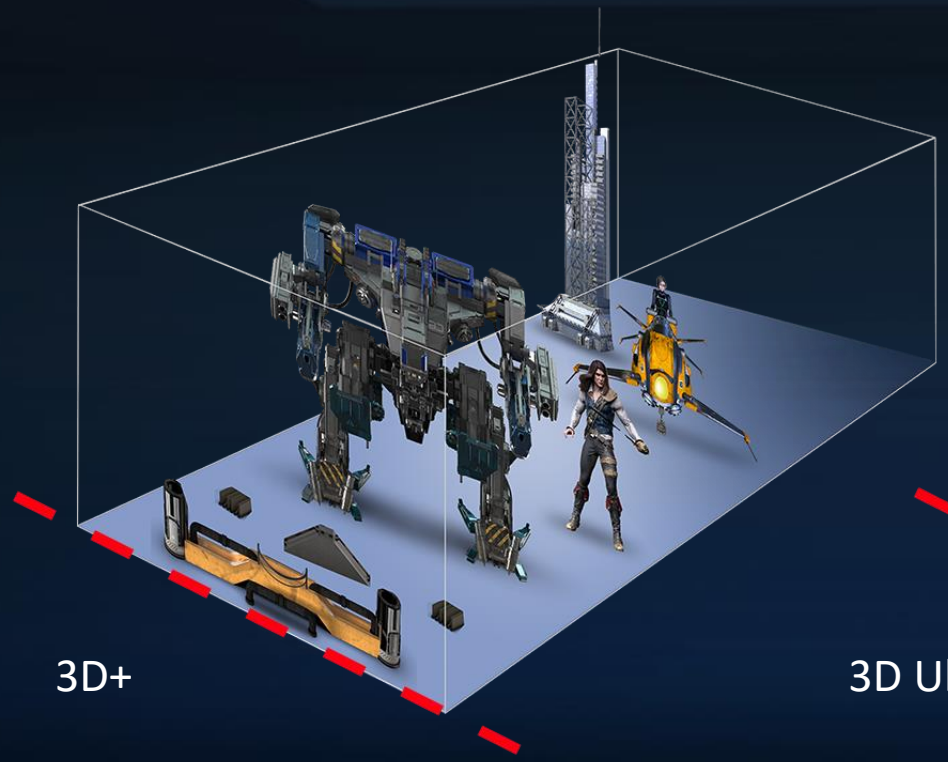
3D Ultra

Frame begin → Scene Rendering → Frame end

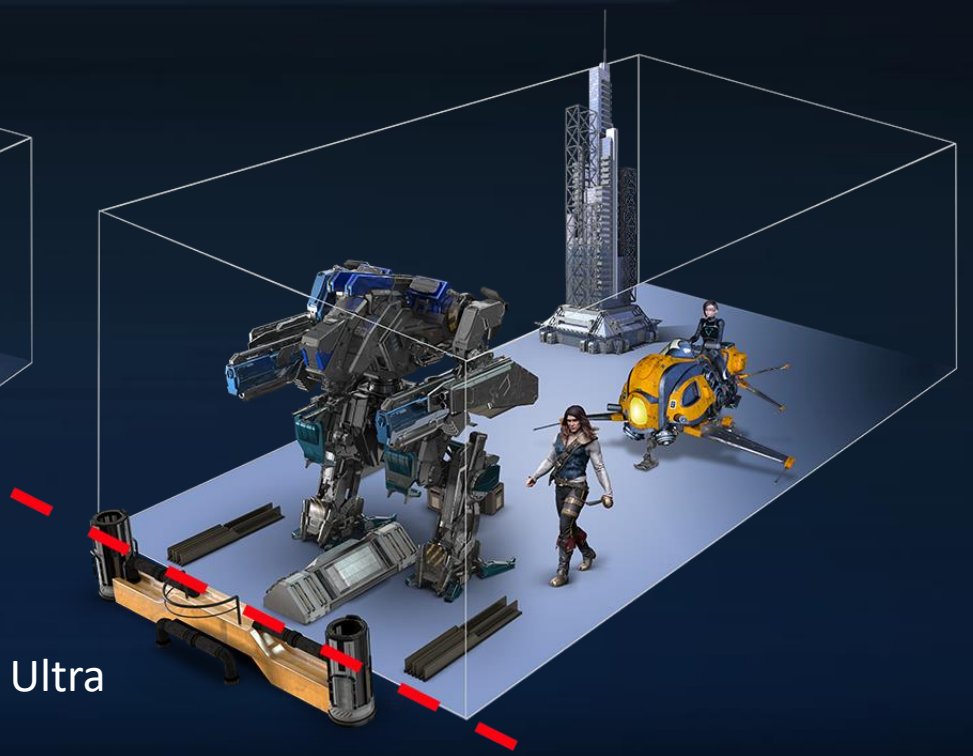
Insert 2nd Camera

The Ultimate Stereo 3D Gaming Experience

3D Games now be enjoyed with great depth and 3D geometry



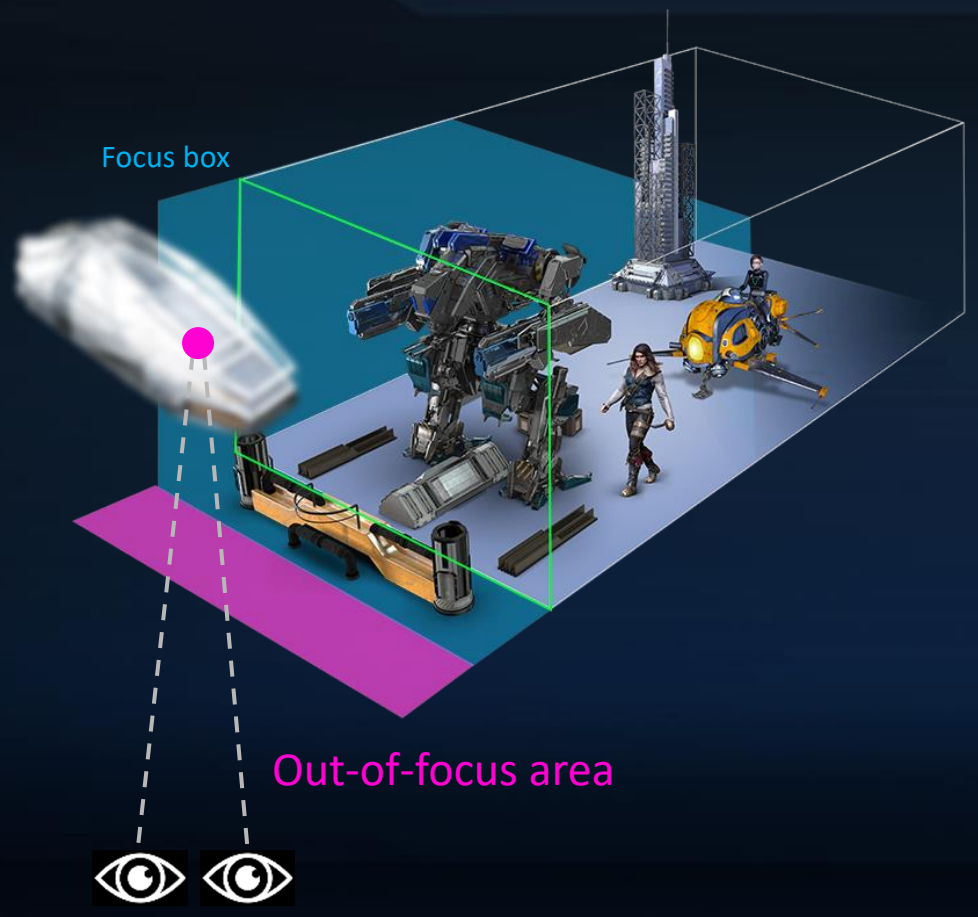
3D+

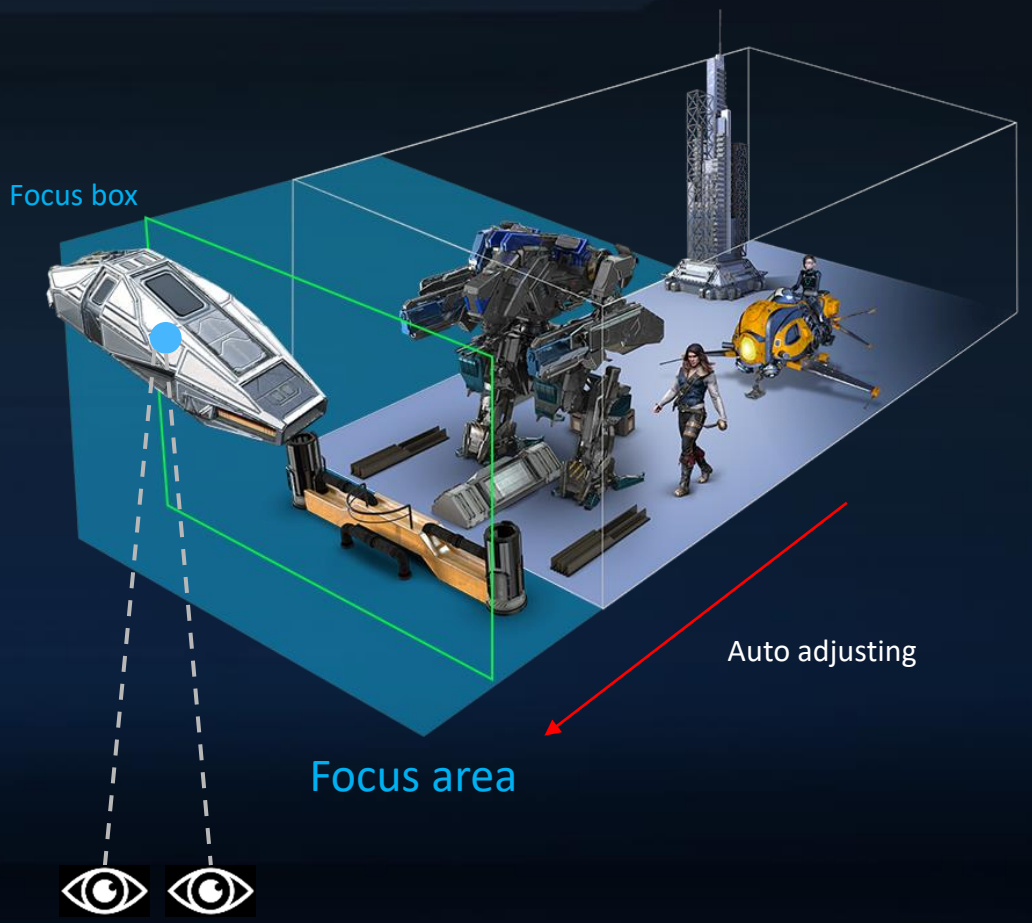


3D Ultra

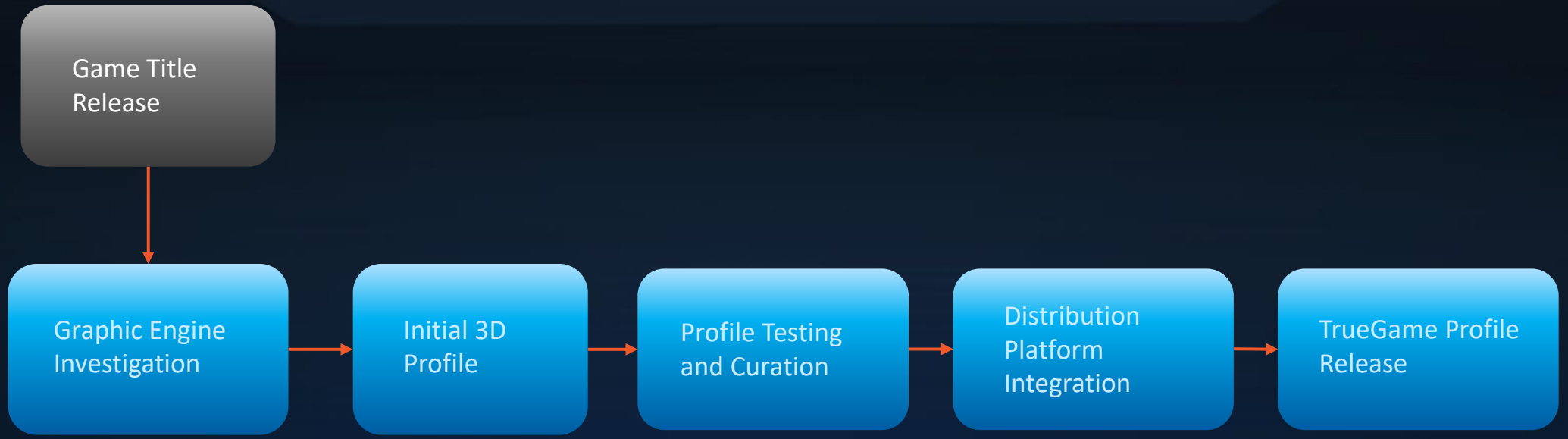
The Ultimate Stereo 3D Gaming Experience now with great comfort

Dynamic auto convergence so all the contents are at its best focus

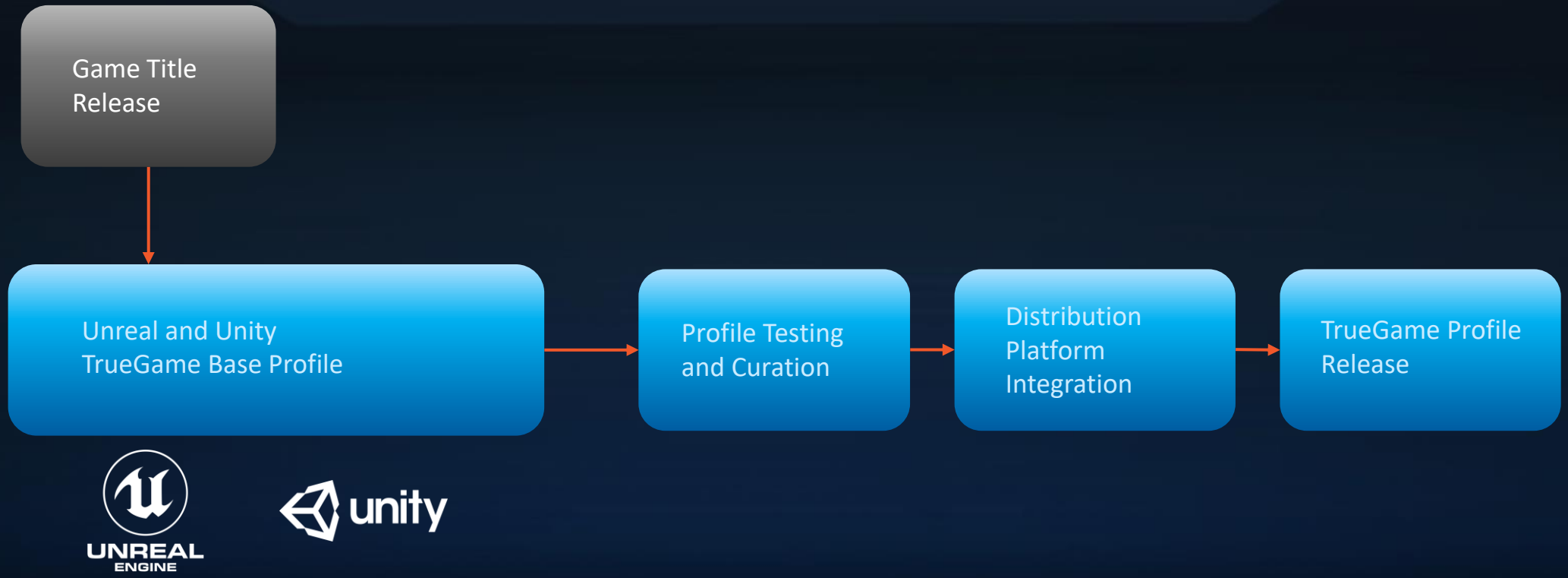




3D Profile Workflow

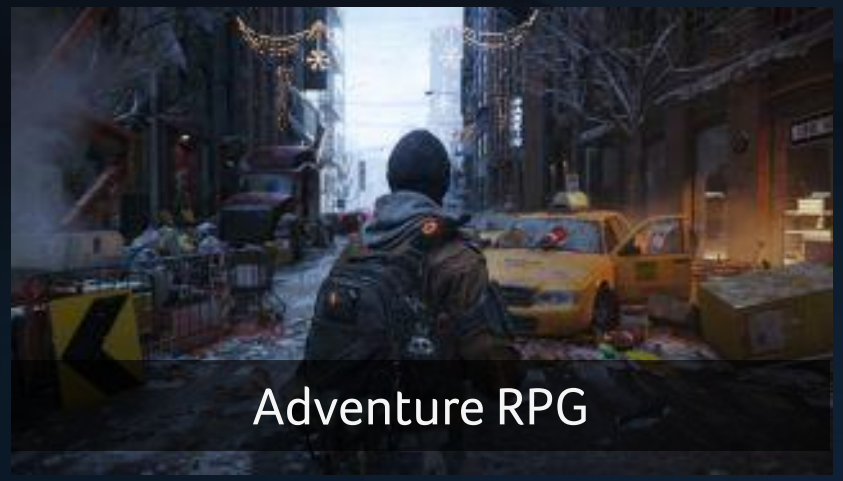


3D Profile Workflow for Unreal and Unity



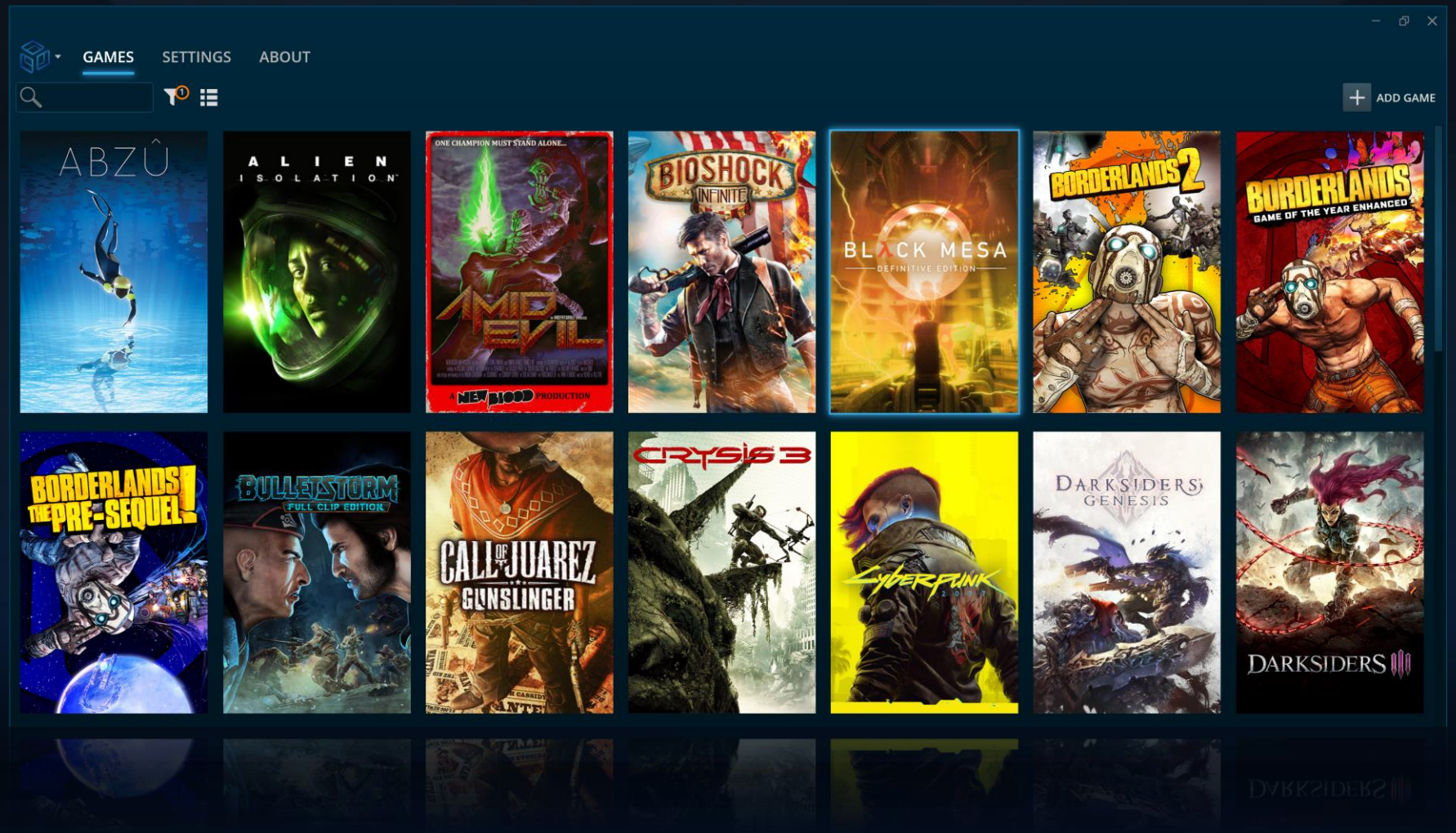
Immersive Stereo 3D Gaming Experience

Game Genres Best Experienced with Stereoscopic 3D



Supporting 80+ AAA game profiles tailored for each game

5 new game titles every month



TrueGame Recap

- Allows Gamers to Truly See the World Game Developers Want to Deliver
- Immersive Stereo 3D Experience
  - One-Click Play
  - Quality
  - Tailored for Each Game
  - 3D Comfort Personalization
- Continues Growing New Title Library
  - 80+ Title and Growing…
- No Additional Work for Game Studios

TrueGame @ CES2023

- Justin Eastzer from CNET "This was freaking awesome"
- "I cannot wait to see where this technology goes."

TrueGame @ CES2023

tom's guide

- Mark Spoonauer from Tom's Guide “Not a Gimmick”
- "Promising first step back into 3D gaming"

Seeing is Believing

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