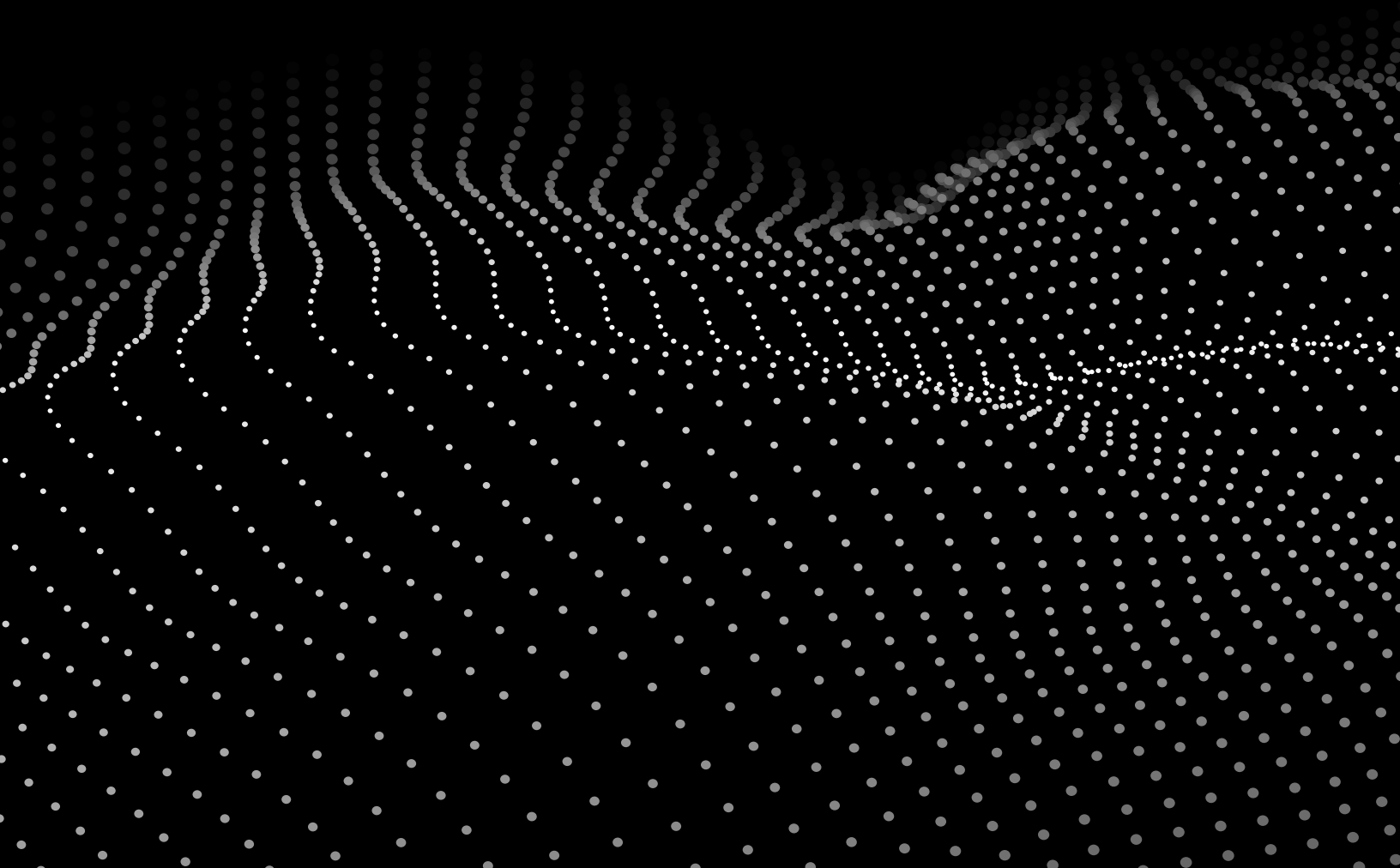




Leveraging AI Training

WITH AMD IMAGE INSPECTOR



Leveraging AI Training with AMD Image Inspector

Each AMD Software: Adrenalin Edition™ platform update is designed to deliver the smoothest frame rates and highest-fidelity graphics. Rigorous testing makes it so that your favorite games—from timeless classics to brand-new releases—offer an immersive and consistent experience.

The introduction of our AMD Image Inspector elevates that commitment to quality. This exploratory new driver-based feature leverages a convolutional neural network (CNN) to identify and capture visual anomalies during gameplay, feeding more comprehensive improvements to our software at a quicker pace.

How Does the AMD Image Inspector Work?

Shortly after launching your game, AMD Image Inspector starts sampling on-screen content at a fixed interval. Each captured image is processed [through a binary classifier model](#), which was created and trained (and is currently used) by AMD's own quality assurance team.

The model assigns a score and determines whether the image warrants further investigation. All the scores are saved to a log, along with diagnostic information that we collect as part of AMD's User Experience Program, to help our teams reproduce issues internally.

How is Data Collected by AMD Image Inspector Used?

AMD Image Inspector's neural network is trained on more than 100 games, so its ability to pinpoint graphical glitches will vary depending on what you're playing. As the CNN evolves and comprises more training data, its precision will improve.

Regardless of whether a game is in the model's dataset or not, though, most of the images captured by AMD Image Inspector won't contain any corruption. With this in mind, we normalize the scores assigned by the model over time. This gives us an expected percentage of frames that are perfectly fine compared to those that need to be looked at more closely. If we suddenly see an abnormal spike in positive values, then we can more confidently investigate the cause.

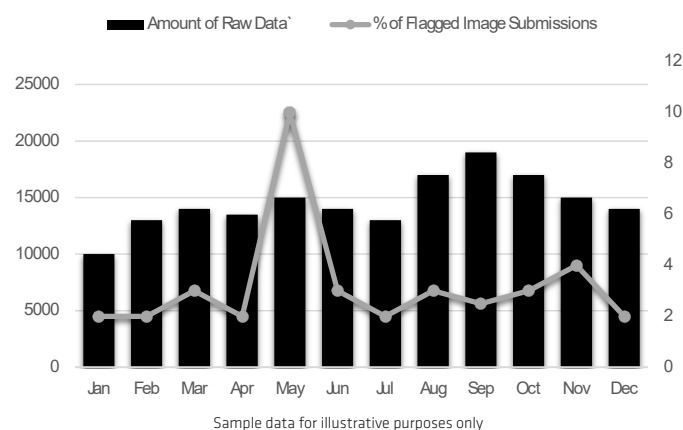
How Does AMD Image Inspector Protect Your Privacy and Performance?

Above all, AMD Image Inspector prioritizes your privacy and gaming experience.

The feature must first be explicitly turned on. Simply update AMD Software: Adrenalin Edition using the Custom Install option and set "AMD Image Inspector" to Enable. Or navigate to the Settings cog in AMD Software: Adrenalin Edition and toggle the option in the Preferences pane.

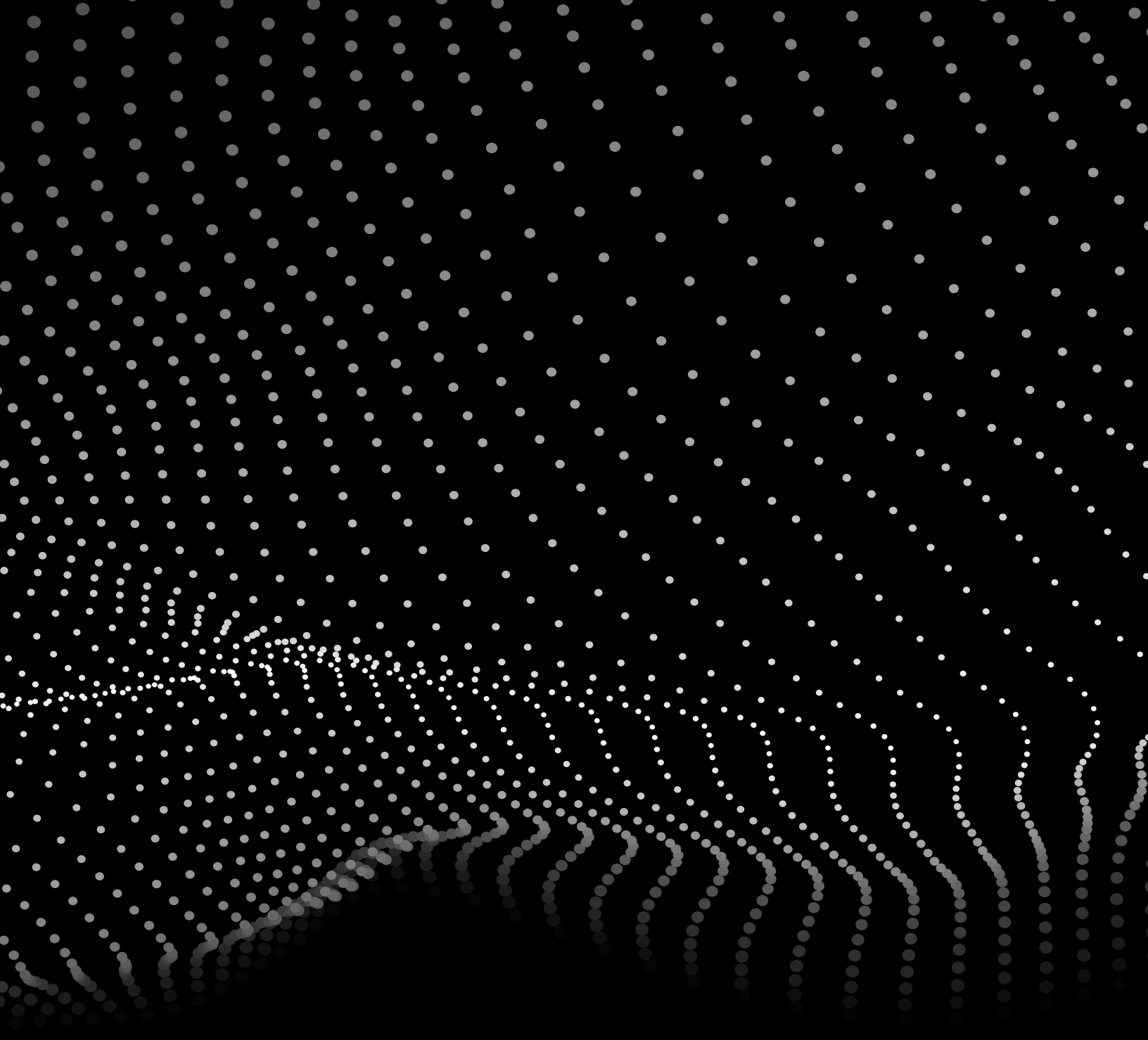
Once it is enabled, AMD Image Inspector begins monitoring when it detects a game from the driver's Games list. The feature operates in exclusive or borderless full screen mode so that only your game content is captured. And its default mode is to prompt you for review. Nothing is sent until you give the go-ahead.

AMD Image Inspector helps maintain performance by sampling only when GPU utilization is low enough for minimal impact on gameplay. Keep tabs on the feature's activity through Radeon™ Overlay; when AMD Image Inspector is done inferencing recent frames, its indicator lights up green.



AMD Image Inspector: Coming to Radeon RX 9000-Series

By monitoring gameplay with an AMD-trained CNN, we identify issues out in the wild using the same tools running in our own labs. That way, we can work with game developers, hardware partners, and our own driver teams to ensure those issues are addressed as quickly as possible. This approach helps us work towards the the best possible image quality across a diverse library of games—all while maintaining strict privacy and performance standards.



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