

THX Certified TVs undergo over 400 individual tests to ensure color, tone and images reproduce the director's intentions accurately in stunning picture quality.



WHAT WE TEST



Color Accuracy

Displays are tested to ensure all images match the color, luminance, blacks and gamma found in the original source, and all primary and blended colors are reproduced exactly as they were in the studio.



Sharper Pictures

The THX Certification process improves de-interlacing and jaggies, ensuring sharp HD and UltraHD images with a previously unseen level of clarity.



Upscaling / Motion Processing

HD to UltraHD upscaling can create image artifacts which are visible when there is on-screen movement. THX Certified displays preserve the integrity of original content while presenting an unparalleled level of detail.



Panel Performance

Not all display panels are uniformly backlit. To ensure consistent image quality across the entire screen, THX Certified TVs are tested for light leakage and hot spots to confirm that the edges of the image are not washed out.

THX CERTIFIED MODES

THX Viewing Modes are prebuilt into displays and allow consumers to get the optimal viewing experience for their standard and high dynamic range (HDR) content.

THX GAME MODE

COLOR

Some games are intentionally brighter and more saturated than movie content. THX Game Mode ensures all picture settings are carefully adjusted to deliver precise, accurate colors.

SPEED

TVs with THX Game Mode are required to have a refresh rate of 120 Hz or higher. More frames per second means motion will look smoother without blur.

INPUT LAG

THX TVs have low latency to ensure the image and controllers are in sync, so players can see and react to action instantly with minimal lag. Game Mode ensures this immediacy and switches off any unnecessary video processing.

REAL TIME

THX Game Mode ensures low dark-to-light rise time transitions, which determines how fast the display can change from dim to bright so that nothing is missed in fast-paced gameplay.

CLARITY

Judder and smear reduction keep the picture crisp, while black frame insertion or backlight scanning can improve the look of moving objects.

SMART

THX TVs will automatically switch to THX Game Mode with compatible consoles and PCs.

THX CINEMA MODE

COLOR

Colors are recreated exactly as they were chosen and blended by the filmmakers with precise color gamut limits. The THX color format matches professional studio monitors and avoids cartoonish saturation.

BRIGHTNESS

Brightness levels are set for studio-like performance in darkened rooms.

DIMENSION

The color of white and the accuracy of light to dark transitions give images shape and shading for a realistic look that has smoothness and depth. This tuning keeps your video from being too blue and shows detail in dark scenes.

REALISM

Video processing is adjusted in order for the image to remain faithful to the original content. Features like motion enhancement, smoothing and noise reduction are minimized or turned off.

THX BRIGHT ROOM

The THX Bright Room Mode builds on the THX Cinema Mode with adjustments to luminance, black levels and gamma for viewing in bright environments.