

mCable™

PICTURE QUALITY FOR ALL

For the Best Display Provide the Best Content

The fact is, the higher the quality of the image provided to a TV, the better a picture the TV will display. This is the ultimate purpose of mCable. Enhance the quality of the video provided by your Blu-ray DVD player, streaming device or game console to your TV so your TV has a better image to build upon.

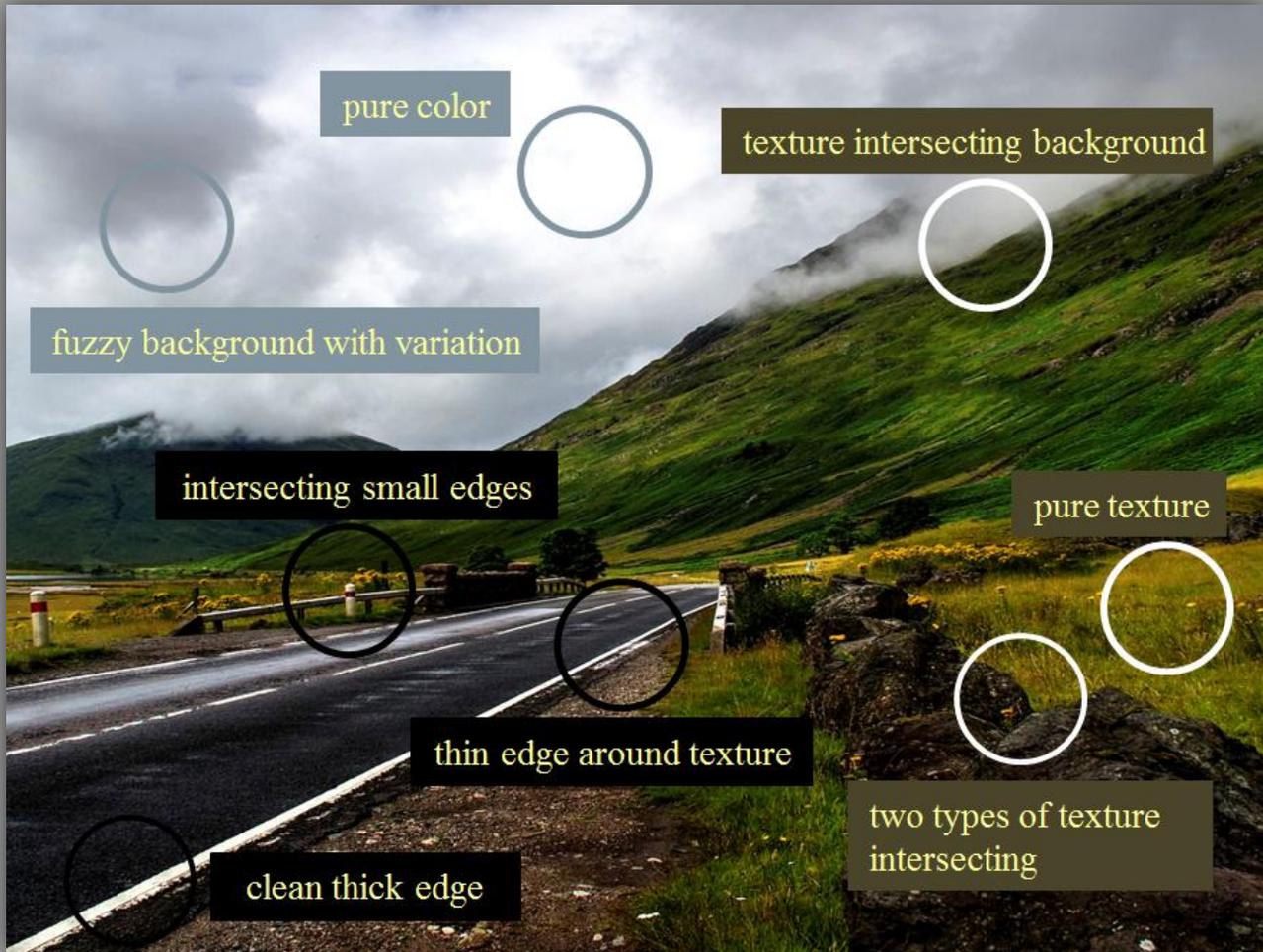


A cable with a built-in image quality enhancing chip

mCable integrates a powerful video chip from Marseille Inc. that refines images on their way to your TV to bring you sharper pictures, better contrast, natural colors and crisp edges for the best visual experience.

Amazing images for HD & 4K Ultra HD TVs

Improving the image quality provided to your TV requires careful handling. The picture below shows how an image is made of many different areas, or contexts, each conveying cues to the viewer about the scene.



Because human perception is non-uniform for pixels in different regions, a suitable enhancement for one pixel could look disastrous for another. mCable analyzes each pixel in its immediate context and its global context to determine the most suitable processing for each pixel; a Marseille Inc. technology called Contextual Processing. Regions in an image are thus enhanced according to their specific characteristics so the balance of the image is preserved.

Contextual Processing is complemented by professional quality up-scaling up to 4K Ultra HD when content and display resolution need to be matched.

Contextual Detail Enhancement

Fine details of an image are essential as they provide realism by expressing nuances about the objects, materials, faces and other elements composing an image. They carry emotions to the viewer about the scene, the richer the details, the more nuanced and accurate the emotions.



Fine details are however too often damaged when images are compressed to fit on discs, streamed or when up-scaled in a blu-ray player or a streaming box. Sometime even the original image has a slight blur imparted by the capture process.

Contextual Detail Enhancement enriches these details so as to bring back the nuances, and their associated emotions, that were dulled by excessive compression or standard digital processing. The image above is abundant in fine details and was dulled (left) by previous processing before being enriched (right) by mCable's contextual detail enhancement feature.

Contextual Edge Restoration

Edges in an image are one of the most important visual cues, influencing the perception of depth, resolution and the ability to differentiate objects from one another. Special attention and sophisticated treatment of edges is critical for a pleasant, natural-looking image.



Natural edges are degraded by digital processing, such as compression and scaling, and are made jagged resulting in unnatural images with a loss of depth. Edges from graphics, text overlays and user interfaces are often non- or poorly anti-aliased resulting in harsh jagged edges that only get worse as the image is further processed by the TV.

Contextual Edge Restoration returns natural edges close to their original jagged-free and sharp form while lightening the harshness of machine-created edges. This is illustrated in the image above where natural edges from the boat are jagged when entering the cable (left) and are restored when exiting (right). Text overlays are very harsh and even difficult to read (left) and lightened and easier to read (right). The contextual nature of mCable algorithms adapts the processing to each edge taking into account its nature and its context to give the TV the best image to start from.

Technicolor 4K Image Certified

Technicolor® is the worldwide technology leader in the media and entertainment sector and in digital Hollywood movie production.

With Technicolor's 4K Image Certification, consumers can be confident that mCable will deliver a stunning movie experience.



Key mCable Features:

- Contextual Detail Enhancement, Edge Restoration and Noise Reduction
- DVD and streaming-specific quality enhancements
- 4K cinema up-scaling (up to 30Hz)
- Technicolor 4K Image Certified
- 3D processing and up-scaling (720p and 1080p)
- 120Hz support for advanced gaming and action videography
- Near-zero latency (< 1ms) for lag-free viewing
- Compliant with HDMI 1.4b and HDCP 1.4
- Audio Pass-thru of PCM, DSD™, DTS® and Dolby® including HBR formats
- Audio Return Channel
- Enhanced device interoperability
- HDMI 2.0 interoperability safeguard
- 4K60 pass-through, future-proof for emerging products
- CEC support
- USB Powered