

4K Ultra High-Definition Cameras

A camera or camcorder may be referred to as 4K Ultra High-Definition if it meets the following minimum performance attributes:

Capture – Capture requirements apply to all devices.

Resolution – Has optics and image sensor capable of capturing still images and video with at least 3840 pixels horizontally and at least 2160 pixels vertically.

Frame Rate – Captures 3840x2160 video at a minimum of 24p frames per second.

Bit Depth – Captures pixels with a minimum bit depth of 8 bits.

Record – Recording requirements apply to all devices.

Resolution – Records still images and video with at least 3840 pixels horizontally and at least 2160 pixels vertically.

Frame Rate – Records 3840x2160 video at a minimum of 24p frames per second.

Bit Depth – Records pixels with a minimum bit depth of 8 bits.

Playback – Playback requirements apply to all devices.

Resolution – Plays back captured or recorded still images and video with at least 3840 pixels horizontally and at least 2160 pixels vertically.

Digital Output – Has at least one HDMI-compatible output supporting at least 3840x2160 resolution at a minimum of 24p frames per second.

Bit Depth – Plays back video with minimum bit depth of 8 bits.

Interchangeable Lens Cameras (ILCs)

The CTA Digital Imaging Division Board recently approved use of the following camera terminology:

ILC (short for Interchangeable lens Cameras) includes both DSLR and Mirrorless cameras. By definition, they have Interchangeable Lenses.

DSLR (short for Digital Single-Lens Reflex Cameras) is a subset of ILC cameras that includes a mirror mechanism.

Mirrorless (short for Mirrorless Interchangeable Lens Cameras) is a subset of ILC cameras that does not include a mirror mechanism.