There has been a clear relationship between technological development over
years and a fascination with "ghost" photography. Images of unexplained circles of,
ghostly mists and human-shaped images fill social media pages on the internet.
explanation is simple: few people realise how digital cameras work. The fact that
image only "appeared" in the photo, but not real life, is not a sign of its ghostly
In fact, it is a perfectly normal part of digital photography. Scientists call
"photographic artefacts", because they show some things that only exist because it is
photograph. Put simply, contrary to popular belief, things in photos look different
real .
The biggest cause of photographic artefacts is the contrast between how
"depth of field" works in modern cameras and the human eye. This is because,
it is now possible to take excellent pictures of things far away, the quality of photos
objects that are very near is less accurate. Light causes these misrepresentations.
level of light never changes when humans stare at objects. However, this is not
happens with digital cameras. When a camera points at a light, the light
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It is easy to see why humans see differently from digital cameras.
digital cameras are also significantly different from old film cameras. In many,
digital cameras give less reliable results. For example, modern functions allow
cameras to scan the image more than once over a period of less than a second, or
automatically select how long the lens is open. Generally this produces better,
but if the camera moves during the photo, it may record multiple images, creating
appearance of ghostly forms. Ghostly mists often appear when the camera picks up
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Filming under certain conditions will often produce unusual light effects in
prints. For instance, glass often makes objects such as a light source behind
photographer appear in the printed photo. If the glass is clean, it may not be
that there was a window and all you see is an object that "wasn't there when I took
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Most digital cameras come with a good zoom function, letting us take
from far away. However, at some point, digital cameras can no longer produce
images anymore. As you go nearer, instead of seeing the image as a
picture, the digital image becomes pixelated, which means it appears as a group
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There has been a clear relationship between technological development over the years and a fascination with "ghost" photography. Images of unexplained circles of <u>light</u>, ghostly mists and human-shaped images fill social media pages on the internet. The explanation is simple: few people realise how digital cameras work. The fact that <u>an</u> image only "appeared" in the photo, but not real life, is not a sign of its ghostly <u>origins</u>. In fact, it is a perfectly normal part of digital photography. Scientists call <u>them</u> "photographic artefacts", because they show some things that only exist because it is <u>a</u> photograph. Put simply, contrary to popular belief, things in photos look different <u>from</u> real <u>life</u>.

The biggest cause of photographic artefacts is the contrast between how the "depth of field" works in modern cameras and the human eye. This is because, although it is now possible to take excellent pictures of things far away, the quality of photos of objects that are very near is less accurate. Light causes these misrepresentations. The level of light never changes when humans stare at objects. However, this is not what happens with digital cameras. When a camera points at a light, the light becomes stronger and stronger. Orbs, which are perfect circles of light, are the most common photographic artefact and they are often the result of light reflecting off water or insects in the air near the camera.

It is easy to see why humans see differently from digital cameras. <u>However</u>, digital cameras are also significantly different from old film cameras. In many <u>ways</u>, digital cameras give less reliable results. For example, modern functions allow <u>digital</u> cameras to scan the image more than once over a period of less than a second, or <u>to</u> automatically select how long the lens is open. Generally this produces better <u>photos</u>, but if the camera moves during the photo, it may record multiple images, creating <u>the</u> appearance of ghostly forms. Ghostly mists often appear when the camera picks up <u>the</u> photographer's own breath on a cold night when the lens is open for longer. This <u>never</u> happened with film <u>cameras</u>.

Filming under certain conditions will often produce unusual light effects in <u>digital</u> prints. For instance, glass often makes objects such as a light source behind <u>the</u> photographer appear in the printed photo. If the glass is clean, it may not be <u>obvious</u> that there was a window and all you see is an object that "wasn't there when I took <u>the</u> photo". A famous UFO photograph showed two clear bright saucer-shaped <u>objects</u> flying across a blue sky. Although very believable, it was, in fact, just a reflection <u>of</u> some streetlights behind the <u>photographer</u>.

Most digital cameras come with a good zoom function, letting us take <u>photos</u> from far away. However, at some point, digital cameras can no longer produce <u>clear</u> images anymore. As you go nearer, instead of seeing the image as a <u>continuous</u> picture, the digital image becomes pixelated, which means it appears as a group <u>of</u> colored rectangles. What you see in print is very different from the object in real <u>life</u>, and the purest example of an aretefact is the pixellation <u>process</u>.