



Holographic Photography

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Holographic photography

  What is a hologram?

  Recording a holographic image.

  Apparatus for holographic photography.

What is a hologram?

👁️👁️ Optical interference pattern.

👁️👁️ Two ways of generating holograms.

👁️👁️ White light.

👁️👁️ Laser light.

👁️👁️ Two ways of creating holographic images.

👁️👁️ Transmission.

👁️👁️ Reflection.

Recording a holographic image

✍✍ Can use standard photographic film.

✍✍ Wave properties of light;

✍✍ Phase.

✍✍ Intensity.

✍✍ Coherent Light.

✍✍ Of one wavelength.

✍✍ Slightly different for white light holograms.

✍✍ In phase.

✍✍ A Laser produces the required type of light.

✍✍ Record the interference pattern between a reference and scattered light.

Apparatus for holographic photography

