

Guide Number Flash Photography

Backscatter (photography) occurs in low-light scenes when the camera's flash is used. Cases include nighttime and underwater photography, when a bright light source and reflective In photography, backscatter (also called near-camera reflection) is an optical phenomenon resulting in typically circular artifacts on an image, due to the camera's flash being reflected from unfocused motes of dust, water droplets, or other particles in the air or water. It is especially common with modern compact and ultra-compact digital cameras

Flash synchronization In photography, flash synchronization or flash sync is the synchronizing the firing of a photographic flash with the opening of the shutter admitting light In photography, flash synchronization or flash sync is the synchronizing the firing of a photographic flash with the opening of the shutter admitting light to photographic film or electronic image sensor

Flash units are commonly built directly into a camera. Some cameras allow separate flash units to be mounted via a standardized accessory mount bracket (a hot shoe). In professional studio equipment, flashes may be... Crime scenes can be major sources of physical evidence that is used to associate or link suspects to scenes, victims to scenes, and suspects to victims. Locard... This simple inverse relationship holds true because the brightness of a flash declines with the square of the distance, but the amount of...

Outline of photography following outline is provided as an overview of and topical guide to photography: Photography - process of making pictures by the action of recording light The following outline is provided as an overview of and topical guide to photography:

Guide number To solve for either of these two variables, one merely divides a device's guide number by the other. the guide number (GN) of photoflash devices (flashbulbs and electronic devices known as "studio strobes", "on-camera flashes", "electronic flashes", "flashes", "speedlights", and "speedlites") is a measure photographers can use to calculate either the required f-stop for any given flash-to-subject distance, or the required distance for any given f-stop

Flash (photography) Modern cameras often activate flash units automatically. Flash refers either to the flash of light itself or to the electronic flash unit discharging the light. Most current flash units are electronic, having evolved from single-use flashbulbs and flammable powders. The main purpose of a flash is to illuminate a dark scene. A flash is a device used in photography that produces a brief burst of light (lasting around 1/200 of a second) at a color temperature of about 5500 K[citation A flash is a device

used in photography that produces a brief burst of light (lasting around 1/200 of a second) at a color temperature of about 5500 K to help illuminate a scene. Other uses are capturing quickly moving objects or changing the quality of light 61b1d12046

Guide number = f-number $\times$ distance 61b1d12046 The low-light conditions night photographers work in require specialized techniques to achieve proper exposure, including long exposures—ranging... 61b1d12046

Night photography Recognized as a photographic genre for more than a century, it is valued for its distinctive visual atmosphere and expressive potential. This status has been reinforced by major institutional exhibitions such as Night Vision at the Metropolitan Museum of Art and Night Light: A Survey of 20th Century Night Photography, organized by the Nelson-Atkins Museum of Art in 1989, which toured nationally; both exhibitions underscored the genre's historical and artistic significance. mid-century American life. Link's innovations pushed the limits of flash photography and night imagery, leaving a lasting influence on the genre. The 1950s Night photography (also called nighttime photography) refers to the practice of taking photographs outdoors between dusk and dawn, when natural light is minimal or nonexistent 61b1d12046

"Nature photography" overlaps the fields of—and is sometimes considered an overarching category including—"wildlife photography", "landscape photography", and "garden photography". 61b1d12046 Caused by the backscatter of light by unfocused particles, these artifacts are also sometimes called orbs, referring to a common paranormal claim. Some appear with trails, suggesting motion. 61b1d12046

Forensic photography It may include the documentation of the crime scene, or physical evidence that is either found at a crime scene or already processed in a laboratory. It may include the documentation of Forensic photography may refer to the visual documentation of different aspects that can be found at a crime scene. Forensic photography differs from other variations of photography because crime scene photographers usually have a very specific purpose for capturing each image. Forensic photography may refer to the visual documentation of different aspects that can be found at a crime scene. As a result, the quality of forensic documentation may determine the result of an investigation; in the absence of good documentation, investigators may find it impossible to conclude what did or did not happen 61b1d12046

In cameras with mechanical (clockwork) shutters synchronization is supported by an electrical contact within the shutter mechanism, which closes the circuit at the appropriate moment in the shutter opening process. In electronic digital cameras, the mechanism is usually a programmable electronic timing circuit, which may, in some cameras, take input from a mechanical shutter contact. The flash is connected electrically to the camera either by a cable with a standardized coaxial PC (for Prontor/Compur) 3.5 mm (1/8 in) connector (as defined in ISO 519), or via contacts in an accessory mount... 61b1d12046 Nature photographs are published in scientific, travel and cultural magazines such as National Geographic Magazine, National Wildlife Magazine and Audubon Magazine or other more specific magazines such as Outdoor Photographer and Nature's Best Photography... 61b1d12046 Photography - process of

making pictures by the action of recording light patterns, reflected or emitted from objects, on a photosensitive medium or an image sensor through a timed exposure. The process is done through mechanical, chemical, or electronic devices known as cameras. 61b1d12046

Nature photography George Shiras III, revolutionized wildlife photography when he began using camera traps and flash photography to capture images of wildlife in the dark Nature photography encompasses a wide range of photography taken outdoors and devoted to displaying natural elements such as landscapes, wildlife, plants, and close-ups of natural scenes and textures. Nature photography tends to place a stronger emphasis on the aesthetic value of the photo than other photography genres, such as photojournalism and documentary photography 61b1d12046

Ultraviolet images have no color since ultraviolet radiation is invisible... 61b1d12046

Ultraviolet photography Some animals, particularly insects, use ultraviolet wavelengths for vision; ultraviolet photography can help investigate the markings of plants that attract insects, while invisible to the unaided human eye. Special UV lamps known Ultraviolet photography is a photographic process of recording images by using radiation from the ultraviolet (UV) spectrum only. Images taken with ultraviolet radiation serve a number of scientific, medical or artistic purposes. source for reflected UV photography although the emission waveband is typically somewhat narrower than sunlight or electronic flash. Ultraviolet photography of archaeological sites may reveal artifacts or traffic patterns not otherwise visible. Images may reveal deterioration of art works or structures not apparent under light. Diagnostic medical images may be used to detect certain skin disorders or as evidence of injury 61b1d12046

Wedding photography On the wedding day, the photographer(s) will provide portrait photography as well as documentary photography to document the different wedding events and rituals throughout the day(s). It may include other types of portrait photography of the couple before the official wedding day, such as a pre-wedding engagement session, in which the photographs are later used for the couple's wedding invitations. Wedding photography is a specialty in photography that is primarily focused on the photography of events and activities relating to weddings. It may include Wedding photography is a specialty in photography that is primarily focused on the photography of events and activities relating to weddings 61b1d12046

Though guide numbers are influenced by a variety of variables, their values are presented as the product of only two factors as follows: 61b1d12046

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