Electronic Flash Guide Number

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Electronic Flash Guide Number

If you go shopping for an electronic flash online, you'll probably see it listed like this: [Flash Name] with Guide Number (GN) of 141 ft. / 43m. Sometimes the ISO value will be stated, but if it isn't just remember that all guide numbers are calculated at ISO 100. The only value ever reported as the guide number is the flash to subject distance in both feet and meters. You'll note that the lens aperture used to calculate the guide number is left out of the reported value, which leads quite ...

Flash Guide Number - The Digital SLR Guide

As a method of standardizing the process, manufacturers use ISO 100 a nd a flash-to-subject distance of 10' as fixed reference points when calibrating guide numbers. An example of this formula: a flash unit with a GN of 40 would require an aperture of f/4 at a subject-to-flash distance of 10' (GN = 10' x f/4 = 40). Note: Some less-than-scrupulous (and invariably third-party) manufacturers use ISO 200 as their base, which automatically increases the apparent power of the flash unit.

Understanding Guide Numbers | B&H Explora

When setting photoflash exposures, the guide number (GN) of photoflash devices (flashbulbs and electronic devices known as "studio strobes", "on-camera flashes", "electronic flashes", "flashes", and "speedlights") 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. To solve for either of these two variables, one merely divides a device's guide number by the other.

Guide number - Wikipedia

CAMERAS ACCESSORIES Electronic Flash Guide numbers are the standardized, numerical way of determining the power of a flash, with a higher guide number representing a more powerful flash. A guide number is the product of multiplying the f/stop of an exposure with a given distance, at ISO 100; or GN = f/number x distance. ...

Electronic Photographic Flash Guide Number

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Electronic Flash Guide Number - tuttobiliardo.it

Guide Number (GN) is a numerical method used to determine exposure of direct flash for Manual flash power levels, to automatically deal with the Inverse Square Law, making the math be trivial. The reference base is a known accurate Guide Number for one situation, from which other situations can be calculated.

Understanding Camera Flash Guide Numbers, plus GN Calculator

Your flash’s Guide Number (GN) is determined at 100 ISO, when it gives correct exposure at a certain distance, multiplied by the f-stop The idea that we can figure out the manual flash exposure by the combination of distance and aperture (for a given ISO

setting), was covered in these recent topics:

Tutorial: How to use the guide number of your flash - Tangents

A flash's power is determined by its Guide Number, with low Guide Numbers (GN) indicating a weak or less powerful flash than one with a high GN. For ease of comparison, most flash GNs are rated for an ISO 100 film. If you use a film with a lower ISO the GN will be lower, and, conversely, if you use a higher speed film the GN will be higher.

Flash Photography - Understanding Guide Numbers

The key to using flashbulbs (or any manual flash system) is the concept of guide number. The guide number expresses the amount of energy contained in the flash in a way directly useful to the photographer, and relates distance covered to lens f-stop, as follows: F = G / D where F is the lens f-stop, G is the guide number, and D is the distance.

Flashbulb Technical Data - Graflex

A full-power flash from a modern built-in or hot shoe mounted electronic flash has a typical duration of about 1ms, or a little less, so the minimum possible exposure time for even exposure across the sensor with a full-power flash is about 2.4ms + 1.0 ms = 3.4ms, corresponding to a shutter speed of about 1/290 s.

Flash (photography) - Wikipedia

Multiply the f/stop on the card in that picture by 10 (the flash-to-subject distance) and you have the guide number for that particular film and flash unit combination. If, for example, the best exposure was made at f/8, the guide number is 80 (8 x 10 = 80).

ELECTRONIC FLASH LIGHTING

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Electronic Photographic Flash Guide Number
Recall that the guide number of a flash is equal to the product of flash-subject distance and aperture. Therefore, if the selected aperture is small (resp., large), the flash-subject distance must be short (resp., long) to properly illuminate the scene. For example, suppose we use ISO 100 and a flash of GN 50.

Using External Flashes in the Manual (M) Mode
The effective range– and therefore the guide number– of any flash will be affected by the use of diffusers, soft boxes, or any other type of flash modifier, as well as whether the flash head is zoomed out or not. Also, remember that guide numbers are usually calculated based on a full-frame (35mm equivalent) sensor.

Making Sense of Your Flash's Guide Number - DIY Photography
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Keep an eye out for a flash’s guide number which tells you how far a flash can reach. Typical budget flashes will have a guide number of around 35 to 45, meaning they can reach 35 to 45 feet at ISO 100, while more expensive and powerful flashes can easily have guide numbers that surpass 100.