

ISO	Head in Normal Position		Head in Extended Position	
	18mm	55mm	18mm	55mm
100	1 – 6.9 m 3.3 – 22.6 ft	1 – 4.3 m 3.3 – 14.1 ft	—	1 – 5.7 m 3.3 – 18.7 ft
200	1 – 9.7 m 3.3 – 31.8 ft	1 – 6.1 m 3.3 – 20 ft	—	1 – 8.1 m 3.3 – 26.6 ft
400	1 – 13.7 m 3.3 – 44.9 ft	1 – 8.6 m 3.3 – 28.2 ft	—	1 – 11.4 m 3.3 – 37.4 ft
800	1.2 – 19.4 m 3.9 – 63.6 ft	1 – 12.1 m 3.3 – 39.7 ft	—	1 – 16.2 m 3.3 – 53.1 ft
1600	1.7 – 27.4 m 5.6 – 89.9 ft	1 – 17.1 m 3.3 – 56.1 ft	—	1 – 22.9 m 3.3 – 75.1 ft

LED Light

The built-in LED light provides continuous illumination. This is particularly useful when shooting video, as a modeling light, or as an AF assist beam (with Live View). The LED light can provide up to 3.5 hours of illumination with four fully-charged AA batteries. It will automatically shut off after 60 minutes of idle use to conserve battery power. If battery power is low the LED Light will not turn on, even if the flash ready light is lit, in which case you should replace the batteries.

Manual Flash Set-up

You can manually adjust the flash output from full 1/1 to 1/64th power by using the External Flash Menu on compatible EOS SLRs*. The lower the flash output, the shorter the maximum range and the closer the minimum distance. The higher the flash output, the greater the maximum range. Use a hand-held flash meter or trial-and-error to determine the correct aperture for a given flash-to-subject distance. Once set, the exposure will remain the same as long as the distance and flash power level remain the same.

1. Press the camera Menu button*.
2. Select the first Shooting Menu (first camera icon on the left).
3. Select **[Flash control]** or **[External Speedlite control]**.
4. Select **[External flash func. setting]**. Press Set.
5. Scroll down to Manual flash. Press Set.
6. Select Flash output. Press Set.
7. Select the flash output you want. Press Set.

* Cameras with External Flash Menu: EOS 40D–60D, Rebel XS/ XSi, T1i, T2i, T3, T3i, EOS 7D, 5D Mark II, EOS-1D Mark III / Mark IV, EOS-1Ds Mark III

Wireless E-TTL Flash Operation

The “Slave” function allows the flash to be triggered wirelessly when used off-camera with an EOS DSLR or Speedlite with master flash function. The slave flash must be positioned off-camera and must be within a range of 33 feet (10 meters) from the master flash unit.

The 320EX can be assigned to any one of four channels and three groups. The channel setting (1, 2, 3 or 4) must match the channel setting on the camera or master unit. The group setting (A, B or C) is important only if you are using more than one Speedlite, in which case you must assign them to the same group if you want equally distributed output or different groups if you want unequally distributed (ratio) output.

1. Set the camera, ST-E2 transmitter or 580EX II Speedlite as the master unit.
2. Set the 320EX as the slave unit by moving the power switch to **<SLAVE>**.
3. Set the transmission channel to the same channel as the master unit.
4. Set the firing group (if using more than one slave).
5. Attach the 320EX to the mini-stand (provided with the flash case) and position the flash. When outdoors you must have the wireless sensor aimed toward the master unit. When indoors the sensor will usually react to reflections from nearby walls.
6. Release the shutter.

Wireless Shutter Release

The flash release function uses the 320EX's built-in infrared transmitter to trigger compatible cameras* with a 2-second delay. You can choose whether to use the 320EX as a wireless trigger only or whether to also use it as a wirelessly triggered slave flash.

To trigger camera only:

1. Set the camera to Remote/Self-Timer mode.
2. Set the 320EX power switch to **<ON>**
3. Point the remote control transmitter on the front of the 320EX toward the camera, then press the remote release button. The shutter will release two seconds later. The 320EX will not fire.

To trigger camera + wireless flash:

1. The camera must have a "master unit" triggering device for Wireless E-TTL flash mounted and active..
2. Set the 320EX power switch to **<SLAVE>**.
4. Set the camera to Remote/Self-Timer mode.
3. Point the remote control transmitter toward the front of the camera, then press the remote release button. The camera will fire two seconds later, which allows time to reposition the 320EX to illuminate the subject. The master flash will trigger the 320EX you're holding.

Auto Power Off

The 320EX will automatically shut off after 90 seconds of idle use to save battery power. Press the camera's shutter button to turn the unit on again. When using the 320EX as a wireless slave you may wish to cancel the auto power off function by pressing the **[*]** button on your camera.

AF-Assist Beam

To facilitate autofocus for dark scenes, the flash may fire repeatedly when you press the camera's shutter button halfway. Its maximum AF-Assist range is approximately 2.3 - 13.1 ft., depending on the ISO setting and maximum aperture of your lens.

* EOS Digital Rebel; Rebel XT, XTi; Rebel XSi; Rebel T1i, T2i, T3i; EOS 7D, EOS 5D Mark II (as of mid-2011).

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