

Taking photos

Home / Taking photos / Managing focus

Managing focus

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Focus modes

The DxO ONE is equipped with an automatic focusing system (autofocus), but it also gives you manual control over focusing. You can select the focus mode in all Photo modes as well as in Manual video mode, which is available on the left of the capture screen.

In the Photo modes, you have a choice between three autofocus modes and a manual mode, which also allows focusing at the hyperfocal distance. In Manual video mode, you can choose between AF (automatic focus) and MF (manual focus).

The minimum focusing distance is 20 centimeters [8"]. To reduce this distance and take macro photos, you can use an additional close-up lens on the adapter.

Automatic focus

Autofocus is the default mode. The camera will focus automatically if you simply press the DxO ONE shutter half way or tap the subject on the iPhone screen (see section *"Basic functions"*)

The DxO ONE offers three automatic focus modes:

- AF-S (AutoFocus-Single-Shot), for a static or slow-moving subject. The DxO ONE analyses the image's content and constantly maintains focus on what it deems to be an important element in the scene. If you change the framing, the DxO ONE will look for a new subject to focus on. The focusing zone is shown by a white frame, which turns blue when focused. The focus is locked for as long as the shutter button is held half-way in. As soon as you release it, the DxO ONE continues analyzing the image so as to focus on a relevant element. You can change the focus at any time by tapping on another point in the image.
- AF-C (AutoFocus-Continuous), for a moving subject. In AF-C mode, focusing is also performed constantly on the preview screen. In order to follow a particular moving subject, tap on it to position the focus frame, then press the shutter button halfway.
- AF-OD (AutoFocus-On Demand). Your DxO ONE will only focus when you ask it to, by pressing the shutter button half way or tapping on the iPhone screen. This mode will allow you to save up to 20% battery charge because, unlike the AF-S and AF-C modes, the DxO ONE does not constantly look for a subject to focus on.

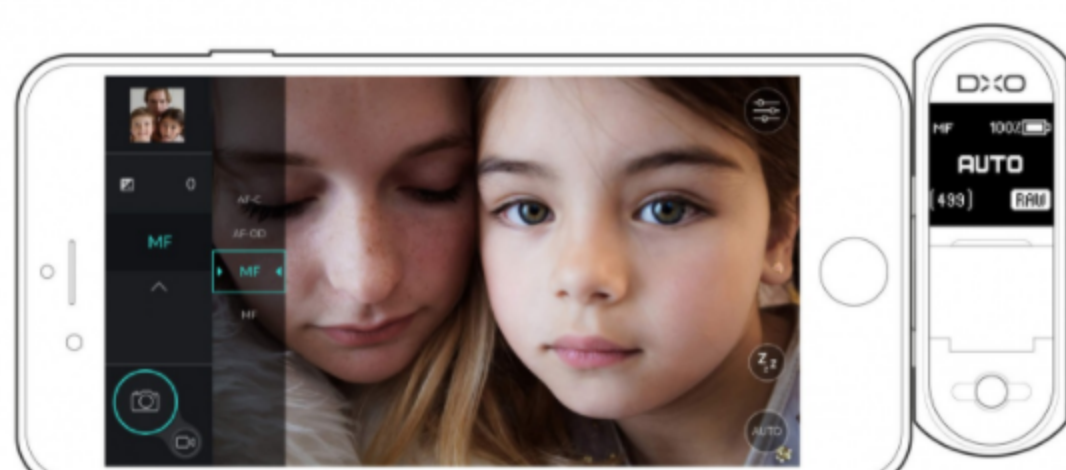
Manual focus

Although automatic focusing is suitable for most uses, it is sometimes handy to focus manually. For example:

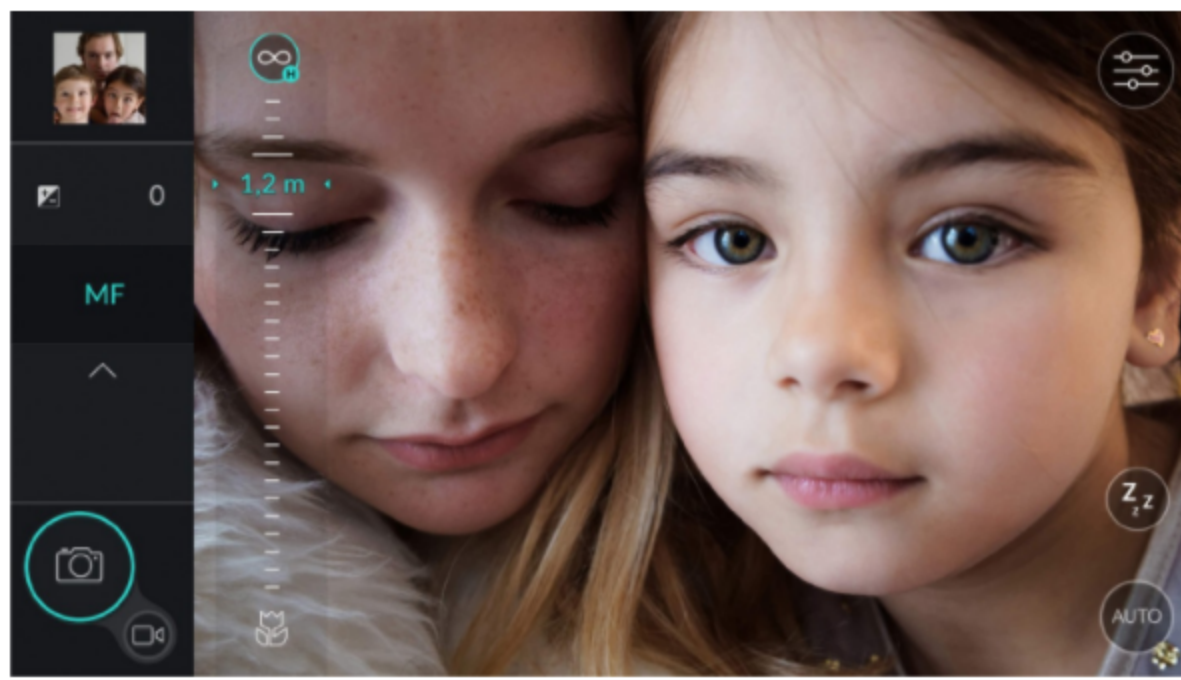
- When you want to shoot rapidly, without waiting for the automatic focus to operate, and when you can anticipate where your subject will be.
- When you want to avoid the focus moving from one photo to another.
- In situations that are difficult for the automatic focus (low light, shooting through glass, etc.)
- Or simply for the pleasure of doing it yourself!

Manual focus is available in all the photo modes as well as in Manual video mode. To activate it, choose the MF (Manual Focus) setting. You adjust the focus yourself by sliding your finger on a cursor located on the left of the screen, on the edge of the tool panel. Distance information is given. When you operate the cursor, a magnifying glass will appear to help you precisely focus the image, and you can position it anywhere on the screen. You can also set the focus here at the hyperfocal distance.

From the capture screen, swipe the toolbar up to scroll through the controls and activate manual focus by pressing the autofocus button (by default AF-S) and then on MF in the sliding value menu.



A focus cursor is displayed on the right of the viewfinder screen with measurements ranging from the minimum focusing distance (20 cm / 8") to infinity. Put your finger on the cursor and adjust the focus distance by swiping up or down.

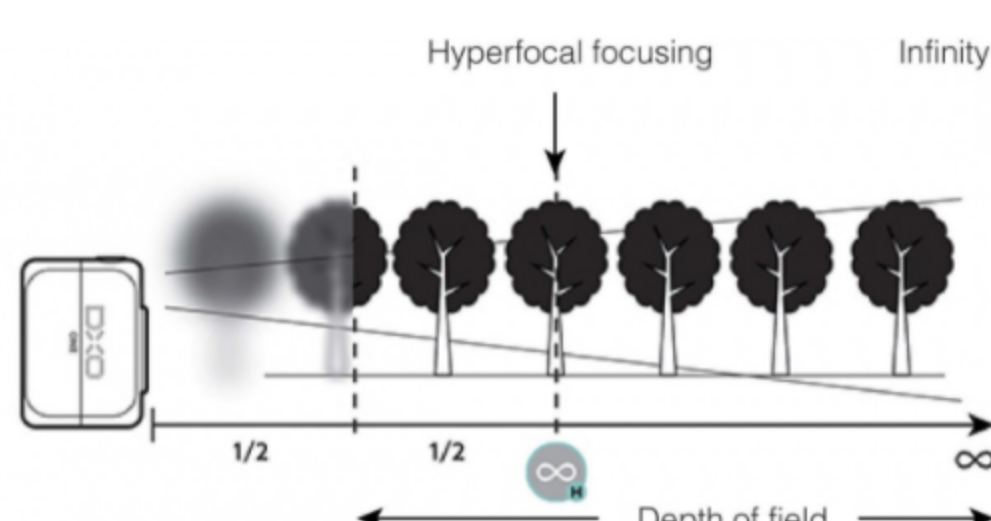


When you are in manual focus mode, you can return to the minimum focusing distance of 20 cm/8" at any time by tapping on the icon at the bottom of the graduated focusing scale.

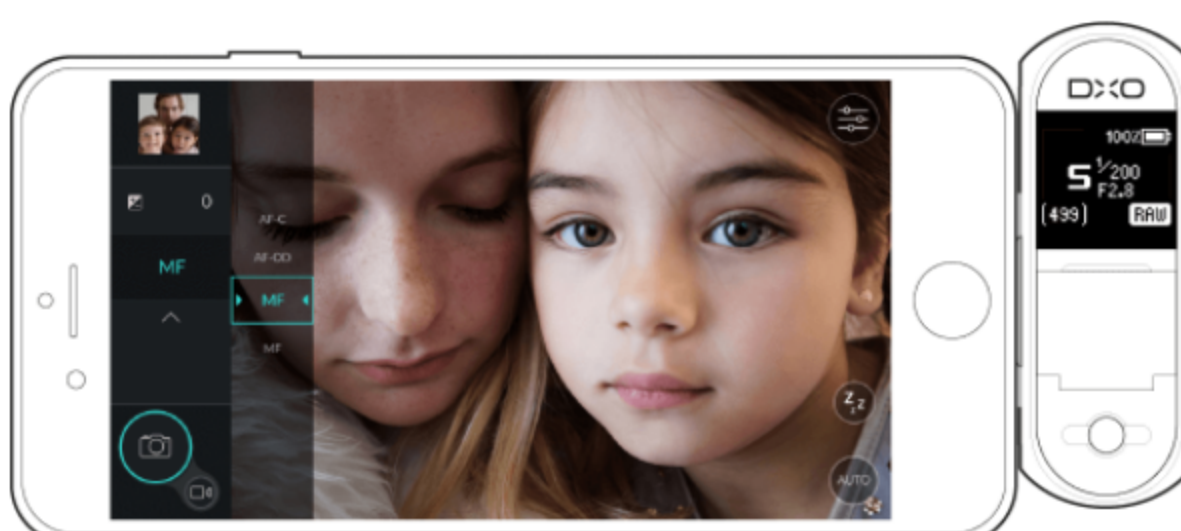
Hyperfocal focusing

The hyperfocal distance is the minimum focusing distance that allows subjects located at an infinite distance to be sharp. This lets you preset the focus and is useful when you want to shoot fast-moving subjects or photograph a landscape in such a way that the maximum number of elements located in different planes are sharp.

When the camera is focused "at the hyperfocal distance," all subjects located between half the hyperfocal distance and infinity are sharp:



Using the manual focus option on the DxO ONE, you can use the Hyperfocal button, which automatically adjusts the focus to the hyperfocal distance. Once Hyperfocal mode has been activated, the focusing distance is automatically adapted to accommodate changes in the aperture.



For informational purposes, here are the hyperfocal distances and their corresponding sharpness ranges:

Aperture	f/1.8	f/2	f/2.8	f/4	f/5.6	f/8	f/11
Hyperfocale	7,8 m	7,4 m	5,2 m	3,7 m	2,6 m	1,8 m	1,3 m
Sharpness range	3,9 m to infinity	3,7 m to infinity	2,6 m to infinity	1,9 m to infinity	1,3 m to infinity	0,9 m to infinity	0,7 m to infinity

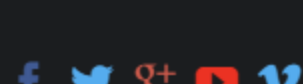
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