

Nikon

NIKKOR

AF-S DX Micro NIKKOR 40mm f/2.8G

使用説明書

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For Your Safety

CAUTIONS

- **Do not disassemble.** Touching the internal parts of the camera or lens could result in injury. In the event of malfunction, the product should be repaired only by a qualified technician. Should the product break open as the result of a fall or other accident, remove the camera battery and/or disconnect the AC adapter and then take the product to a Nikon-authorized service center for inspection.
- **Turn the camera off immediately in the event of malfunction.** Should you notice smoke or an unusual smell coming from the equipment, immediately unplug the AC adapter and remove the camera battery, taking care to avoid burns. Continued operation could result in fire or injury. After removing the battery, take the equipment to a Nikon authorized service center for inspection.
- **Do not use in the presence of flammable gas.** Operating electronic equipment in the presence of flammable gas could result in explosion or fire.
- **Do not look at the sun through the lens or the camera viewfinder.** Viewing the sun or other bright light source through the lens or viewfinder could cause permanent visual impairment.
- **Keep out of reach of children.** Failure to observe this precaution could result in injury.
- **Observe the following precautions when handling the lens and camera:**
 - Keep the lens and camera dry. Failure to observe this precaution could result in fire or electric shock.
 - Do not handle the lens or camera with wet hands. Failure to observe this precaution could result in electric shock.
 - Keep the sun well out of the frame when shooting backlit subjects. Sunlight focused into the camera when the sun is in or close to the frame could cause a fire.
 - If the lens will not be used for an extended period, attach the front and rear lens caps and store the lens out of direct sunlight. If left in direct sunlight, the lens could focus the sun's rays onto flammable objects, causing fire.
- **Do not carry tripods with a lens or camera attached.** You could trip or accidentally strike others, resulting in injury.
- **Do not leave the lens where it will be exposed to extremely high temperatures, such as in an enclosed automobile or in direct sunlight.** Failure to observe this precaution could adversely affect the lens' internal parts, causing fire.

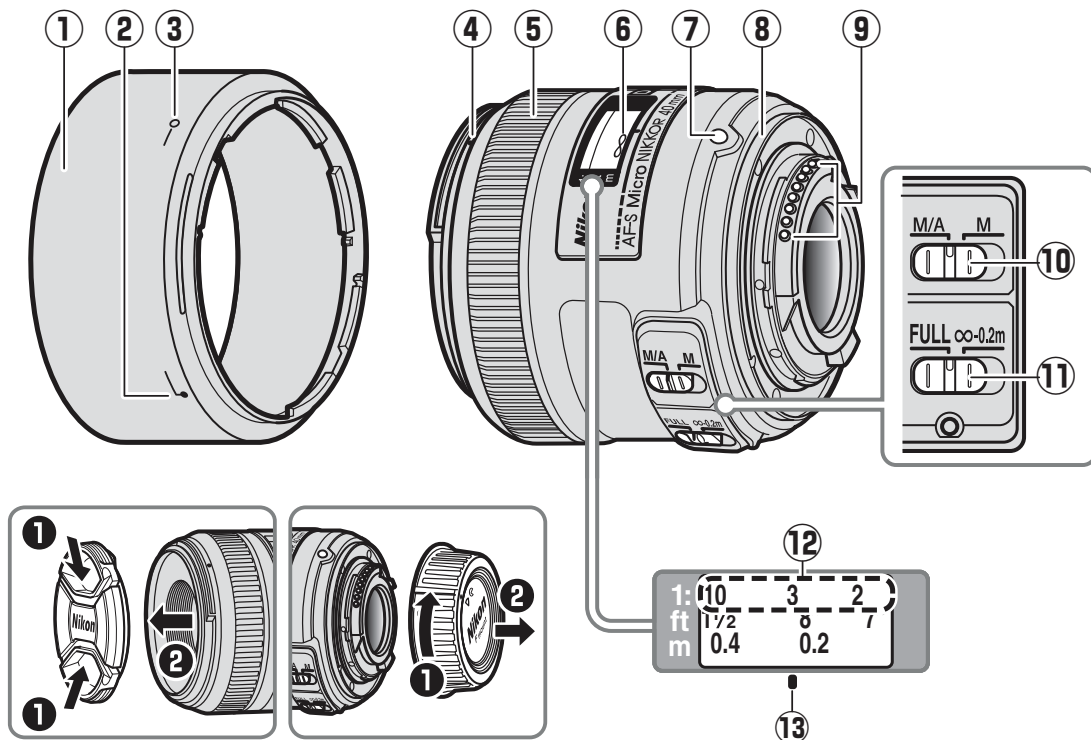


Thank you for your purchase of an AF-S DX Micro NIKKOR 40mm f/2.8G lens. Before using this product, please carefully read both these instructions and the camera manual.

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Note: DX lenses are for use only with DX-format digital single-lens reflex cameras such as the D7000 or D300 series. The angle of view of a lens on a DX-format camera is equivalent to that of a lens with a focal length about 1.5 × longer mounted on a 35 mm format camera.

■ Parts of the Lens



- | | |
|-----------------------------------|--|
| ① Lens hood..... 17 | ⑧ Rubber lens-mount gasket.... 18 |
| ② Lens hood alignment mark.... 17 | ⑨ CPU contacts 18 |
| ③ Lens hood lock mark..... 17 | ⑩ Focus-mode switch..... 15 |
| ④ Lens hood mounting mark.... 17 | ⑪ Focus limit switch..... 15 |
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■ Attaching and Removing the Lens

Attaching the Lens

- 1 Turn the camera off and remove the camera body cap.
- 2 Remove the rear lens cap.
- 3 **Attach the lens.**
Keeping the lens mounting mark aligned with the mounting mark on the camera body, position the lens in the camera's bayonet mount and then rotate the lens counter-clockwise until it clicks into place with the lens mounting mark at the top.

Removing the Lens

- 1 Turn the camera off.
- 2 **Remove the lens.**
To remove the lens, press the lens release button while turning the lens clockwise.

■ Focus

Supported focus modes are shown in the following table (for information on camera focus modes, see the camera manual).

Camera focus mode	Lens focus mode	
	M/A	M
AF	Autofocus with manual override	Manual focus with electronic rangefinder
MF	Manual focus with electronic rangefinder	



M/A (Autofocus with Manual Override)

To focus using autofocus with manual override (M/A):

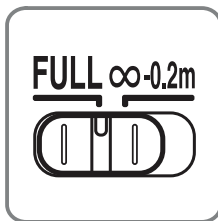
1 Slide the lens focus-mode switch to M/A.

2 Focus.

If desired, autofocus can be over-ridden by rotating the lens focus ring while the shutter-release button is pressed halfway (or, if the camera is equipped with an **AF-ON** button, while the **AF-ON** button is pressed). To refocus using autofocus, press the shutter-release button halfway or press the **AF-ON** button again.

The Focus Limit Switch

This switch determines the focus distance limits for autofocus.



FULL: Select this option for subjects that may be closer than 0.2 m (0.7 ft).

∞–0.2 m: If your subject will always be at distance of at least 0.2 m (0.7 ft), select this option for faster focusing.

■ Aperture

Aperture is adjusted using camera controls. If the camera is in exposure mode A or M, aperture will automatically be adjusted by up to 1.2 stops to maintain the same effective f-number at different focus distances.

■ Depth of Field

If the camera offers depth-of-field preview (stop down), depth of field can also be previewed in the viewfinder.



■ Reproduction Ratio

The reproduction ratio is the ratio of the apparent size of an object to its true size. If, for example, the image on the image sensor is one-third of actual size, the reproduction ratio is 1 : 3. If desired, the reproduction ratio can be selected using the reproduction ratio indicator.

Example: Using the Reproduction Ratio Indicator

To shoot at a reproduction ratio of 1 : 3, select manual focus and rotate the focus ring until the focus distance mark aligns with the number “3” in the reproduction ratio indicator, then move the camera forward or back until the subject is in focus.

■ Close ups and Reproduction Work

To prevent blur caused by camera shake, mount the camera on a tripod and use a cable release or remote cord. Close ups are generally associated with extremely shallow field depths; for greater depths of field, stop down the lens, choose longer exposure times, and position the camera so that the focal plane is parallel to the portion of the subject you wish to photograph. When using a lens hood, be careful that the hood does not touch the subject.

■ Exposure Factor

The lens f-number indicates the brightness of the subject at a focus distance of infinity; higher reproduction ratios result in reduced subject brightness. The actual brightness is referred to as the “effective f-number”, and the amount that exposure compensation has to be raised to account for the loss in brightness as the “exposure factor”.



■ Changes to the Effective f-number

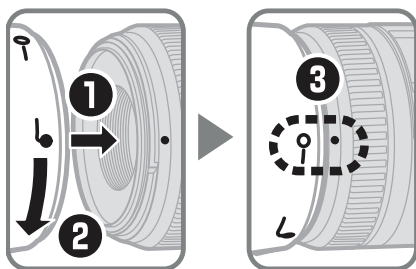
With this lens, the higher the reproduction ratio (the shorter the focus distance), the darker the image that falls on the image sensor and the higher the effective f-number (see the figure on page 162). The camera automatically compensates for this effect when metering exposure or adjusting flash output using TTL flash control, and shows the adjusted value for aperture in the control panel and viewfinder displays.

■ Built-in Flash Units

When using the built-in flash on cameras equipped with a built-in flash unit, shoot at ranges of 0.6 m (2 ft) or more and remove the lens hood to prevent vignetting (shadows created where the end of the lens obscures the built-in flash).

■ The Lens Hood

The lens hoods protect the lens and block stray light that would otherwise cause flare or ghosting.



Align the lens hood lock mark (—○) with the lens hood mounting mark (●) on the lens (③).

When attaching or removing the hood, hold it near the  symbol on its base and avoid gripping it too tightly.

Vignetting may occur if the hood is not correctly attached.

The hood can be reversed and mounted on the lens when not in use. When the hood is reversed, it can be attached and removed by rotating it while holding it near the lock mark (—○).



■ Lens Care

- Do not pick up or hold the lens or camera using only the lens hood.
- Keep the CPU contacts clean.
- Should the rubber lens-mount gasket be damaged, cease use immediately and take the lens to a Nikon-authorized service center for repair.
- Use a blower to remove dust and lint from the lens surfaces. To remove smudges and fingerprints, apply a small amount of ethanol or lens cleaner to a soft, clean cotton cloth or lens-cleaning tissue and clean from the center outwards using a circular motion, taking care not to leave smears or touch the glass with your fingers.
- Never use organic solvents such as paint thinner or benzene to clean the lens.
- The lens hood or NC filters can be used to protect the front lens element.
- Attach the front and rear caps before placing the lens in its flexible pouch.
- If the lens will not be used for an extended period, store it in a cool, dry location to prevent mold and rust. Do not store in direct sunlight or with naphtha or camphor moth balls.
- Keep the lens dry. Rusting of the internal mechanism can cause irreparable damage.
- Leaving the lens in extremely hot locations could damage or warp parts made from reinforced plastic.

■ Supplied Accessories

- 52 mm snap-on Front Lens Cap LC-52
- Rear Lens Cap LF-4
- Bayonet Hood HB-61
- Flexible Lens Pouch CL-0915



■ Compatible Accessories

- 52 mm screw-on filters

En

■ Specifications

Type	Type G AF-S DX Micro NIKKOR lens with built-in CPU and F mount
Focal length	40 mm
Maximum aperture	f/2.8
Lens construction	9 elements in 7 groups
Angle of view	38° 50'
Reproduction ratio indicator	∞ to 1 : 1
Distance information	Output to camera
Focusing	Autofocus controlled by Silent Wave Motor with separate focus ring for manual focus
Focus distance indicator	0.163 m to infinity (∞)
Minimum focus distance	0.163 m/0.53 ft (1 : 1)
Diaphragm blades	7 (rounded diaphragm opening)
Diaphragm	Fully automatic
Aperture range	f/2.8 to f/22
Metering	Full aperture
Focus limit switch	Two positions: FULL (∞– 0.163 m) and ∞– 0.2 m
Filter-attachment size	52 mm (P=0.75 mm)
Dimensions	Approx. 68.5 mm diameter × 64.5 mm (distance from camera lens mount flange)
Weight	Approx. 235 g/8.3 oz

Nikon reserves the right to change the specifications of the hardware described in this manual at any time and without prior notice.





撮影距離∞時に設定できる範囲

Aperture range when lens is set to infinity

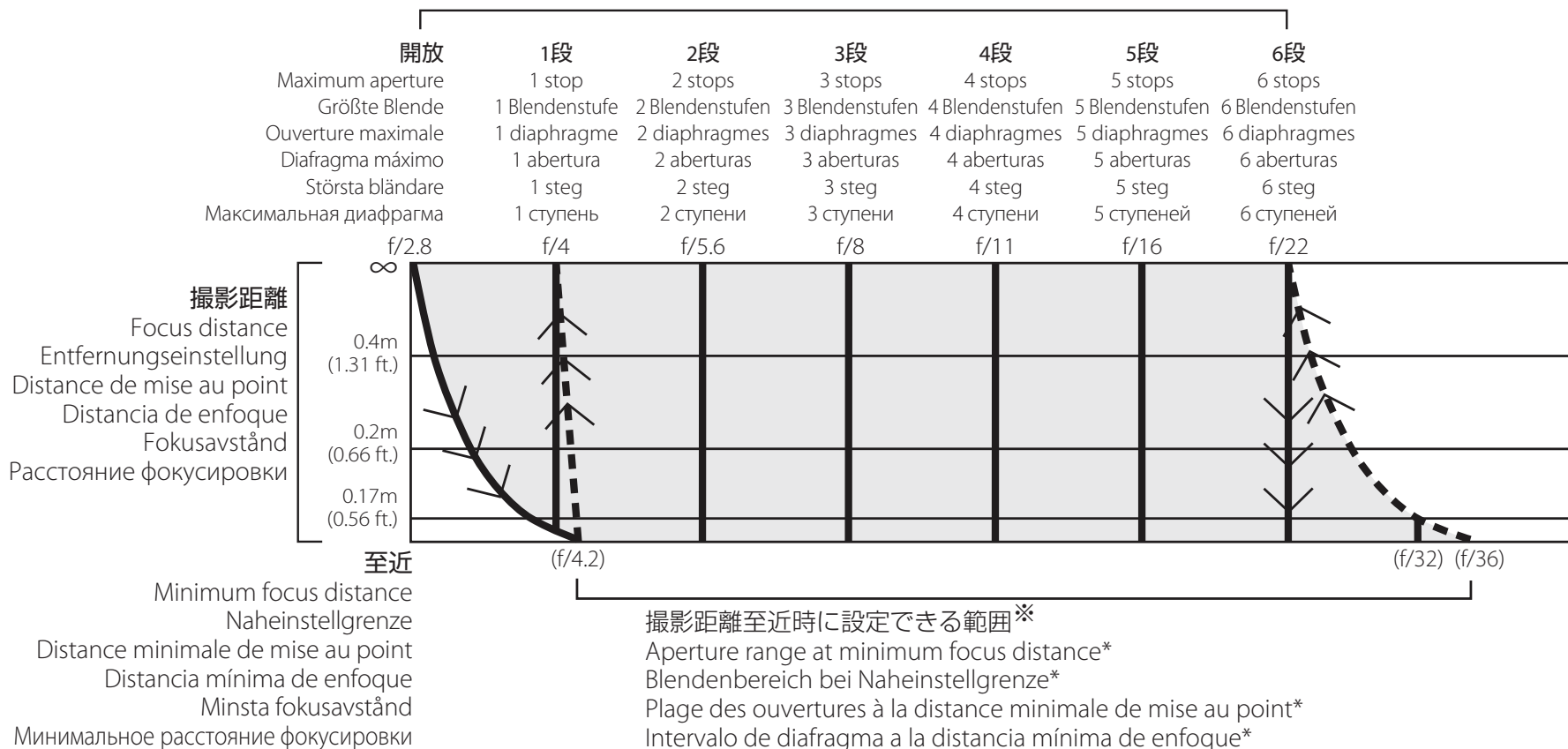
Blendenbereich, wenn das Objektiv auf Unendlich eingestellt ist

Plage des ouvertures lorsque l'objectif est réglé sur l'infini

Intervalo de diafragma cuando el objetivo está ajustado en infinito

Bländarintervall när objektivet är inställt på oändlighet

Диапазон диафрагмы, если объектив настроен на значение до бесконечности



撮影距離至近時に設定できる範囲※

Aperture range at minimum focus distance*

Blendenbereich bei Naheinstellgrenze*

Plage des ouvertures à la distance minimale de mise au point*

Intervalo de diafragma a la distancia mínima de enfoque*

Bländarintervall vid minsta fokusavstånd*

Диапазон диафрагмы при минимальном расстоянии фокусировки*



—— カメラの表示パネル/ファインダー内での表示（∞時でF値設定）

— — — カメラの表示パネル/ファインダー内での表示（至近時でF値設定）

※ 撮影距離至近時で設定できる最大F値（f/36）は、露出値の設定のステップ幅により異なります。

図は、ステップ幅が1/3段のときです。

—— f-number displayed by camera at infinity

— — — f-number displayed by camera at minimum focus distance

* Maximum f-number (f/36) varies according to the size of the camera exposure increment.

Table assumes exposure increment is 1/3 EV.

—— Von der Kamera angezeigter Blendenwert bei Unendlich

— — — Von der Kamera angezeigter Blendenwert bei Naheinstellgrenze

* Der größte Blendenwert (f/36) variiert entsprechend der Größe der Belichtungsschrittweite der Kamera.

Die Tabelle geht von einer Belichtungsschrittweite von 1/3 LW aus.

—— Ouverture affichée par l'appareil photo à l'infini

— — — Ouverture affichée par l'appareil photo à la distance minimale de mise au point

* L'ouverture maximale (f/36) varie en fonction de l'incrément d'exposition de l'appareil photo.

Le tableau se base sur un incrément de 1/3 IL.

—— Número f mostrado por la cámara al infinito

— — — Número f mostrado por la cámara a la distancia mínima de enfoque

* El número f máximo (f/36) varía dependiendo del tamaño del incremento de exposición de la cámara.

La tabla asume que el incremento de exposición es de 1/3 EV.

—— f-nummer som visas av kameran vid oändlighet

— — — f-nummer som visas av kameran vid minsta fokusavstånd

* Högsta f-nummer (f/36) varierar beroende på storleken på kamerans exponeringssteg.

Tabellen förutsätter att exponeringsstegen är 1/3 EV.

—— Число f, отображаемое фотокамерой при бесконечности

— — — Число f, отображаемое фотокамерой при минимальном расстоянии фокусировки

* Максимальное число f (f/36) различается, в зависимости от размера увеличения экспозиции фотокамеры.

Таблица предполагает увеличение экспозиции с шагом в 1/3 EV.



Het diafragma bereik wanneer het objectief op oneindig is ingesteld

Gama de abertura quando a objectiva está regulada para infinito

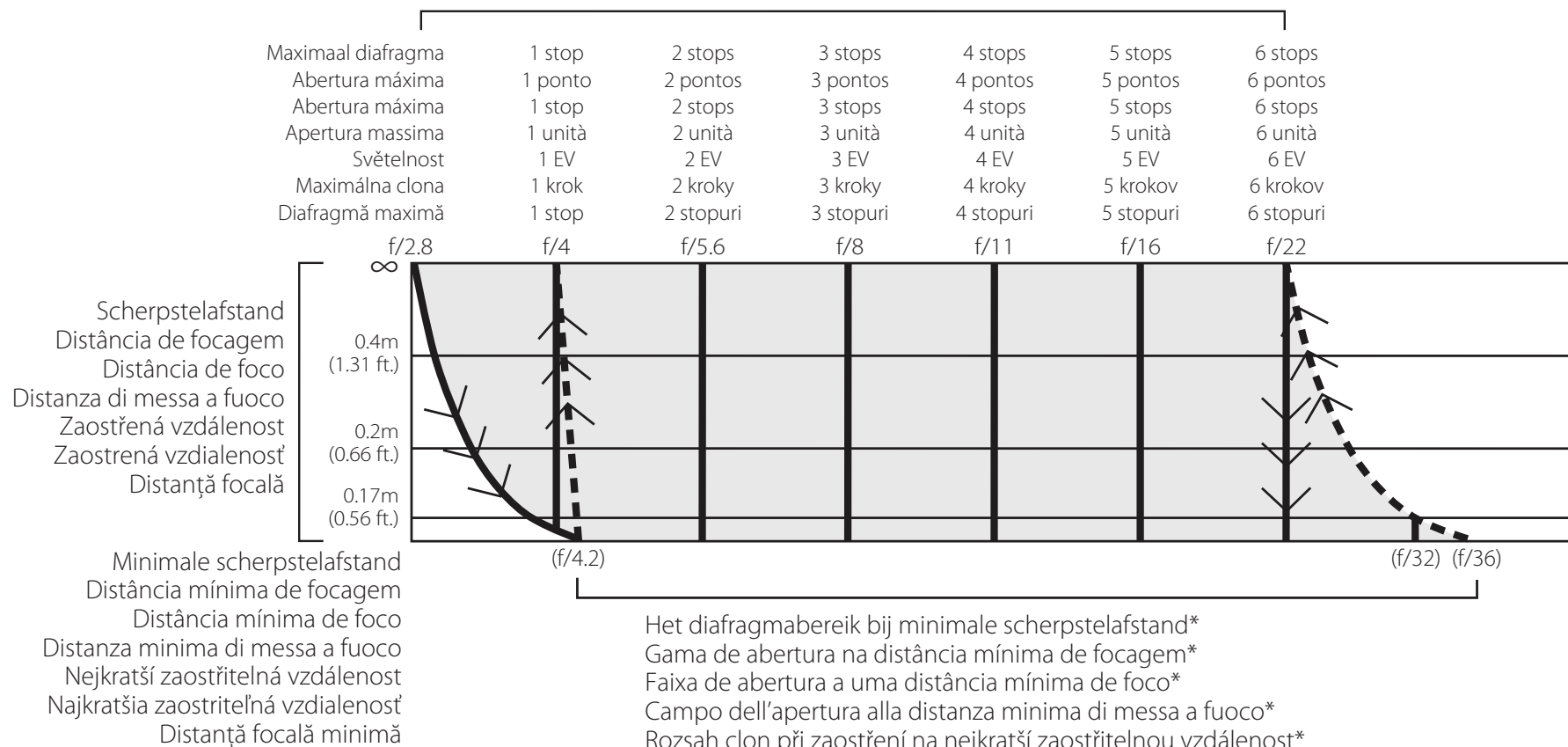
Faixa de abertura quando a lente está definida para o infinito

Campo dell'apertura quando l'obiettivo è impostato a infinito

Rozsah clon při zaostření na nekonečno

Rozsah clony pri nastavení objektívu na nekonečno

Plaja diafragmei când obiectivul este setat la infinit



Het diafragma bereik bij minimale scherpstelafstand*

Gama de abertura na distância mínima de focagem*

Faixa de abertura a uma distância mínima de foco*

Campo dell'apertura alla distanza minima di messa a fuoco*

Rozsah clon při zaostření na nejkratší zaostřitelnou vzdálenost*

Rozsah clony pri najkratšej zaostriteľnej vzdialenosti*

Plaja diafragmei la distanță focală minimă*



- Door de camera weergegeven f-waarde bij oneindig
- - - Door de camera weergegeven f-waarden bij minimale scherpstelafstand
- * Maximale f-waarde (f/36) varieert afhankelijk van de grootte van de belichtingstoename van de camera.
De tabel veronderstelt een belichtingstoename van 1/3 EV.
- Número f exibido pela câmara em infinito
- - - Número f exibido pela câmara em distância mínima de focagem
- * O número f máximo (f/36) varia conforme o tamanho do aumento de exposição da câmara.
A tabela pressupõe que o aumento de exposição é de 1/3 EV.
- Número f exibido pela câmara em infinito
- - - Número f exibido pela câmara em distância mínima de foco
- * O número f máximo (f/36) varia conforme o tamanho do aumento de exposição da câmara.
A tabela pressupõe que o aumento de exposição é de 1/3 EV.
- Numero f/ visualizzato dalla fotocamera a infinito
- - - Numero f/ visualizzato dalla fotocamera alla distanza minima di messa a fuoco
- * Il numero f/ massimo (f/36) varia in base alla grandezza degli incrementi di esposizione della fotocamera.
La tabella tiene conto di incrementi di esposizione di 1/3 EV.
- Clonové číslo zobrazované při zaostření na nekonečno
- - - Clonové číslo zobrazované při zaostření na nejkratší zaostřitelnou vzdálenost
- * Nejvyšší clonové číslo (f/36) se mění v závislosti na volbě kroku pro nastavení expozice na fotoaparátu.
Tabulka předpokládá nastavení kroku expozice na 1/3 EV.
- Clonové číslo zobrazené fotoaparátom pri nekonečne
- - - Clonové číslo zobrazené fotoaparátom pri najkratšej zaostriteľnej vzdialenosti
- * Maximálne clonové číslo (f/36) sa mení v závislosti od veľkosti prírastku expozície fotoaparátu.
Tabuľka predpokladá, že prírastok expozície je 1/3 EV.
- Deschiderea diafragmei afișată de aparatul foto la infinit
- - - Deschiderea diafragmei afișată de aparatul foto la distanță focală minimă
- * Deschiderea maximă a diafragmei (f/36) variază în funcție de dimensiunea treptei de expunere a aparatului foto.
Tabelul presupune că treapta expunere este 1/3 EV.



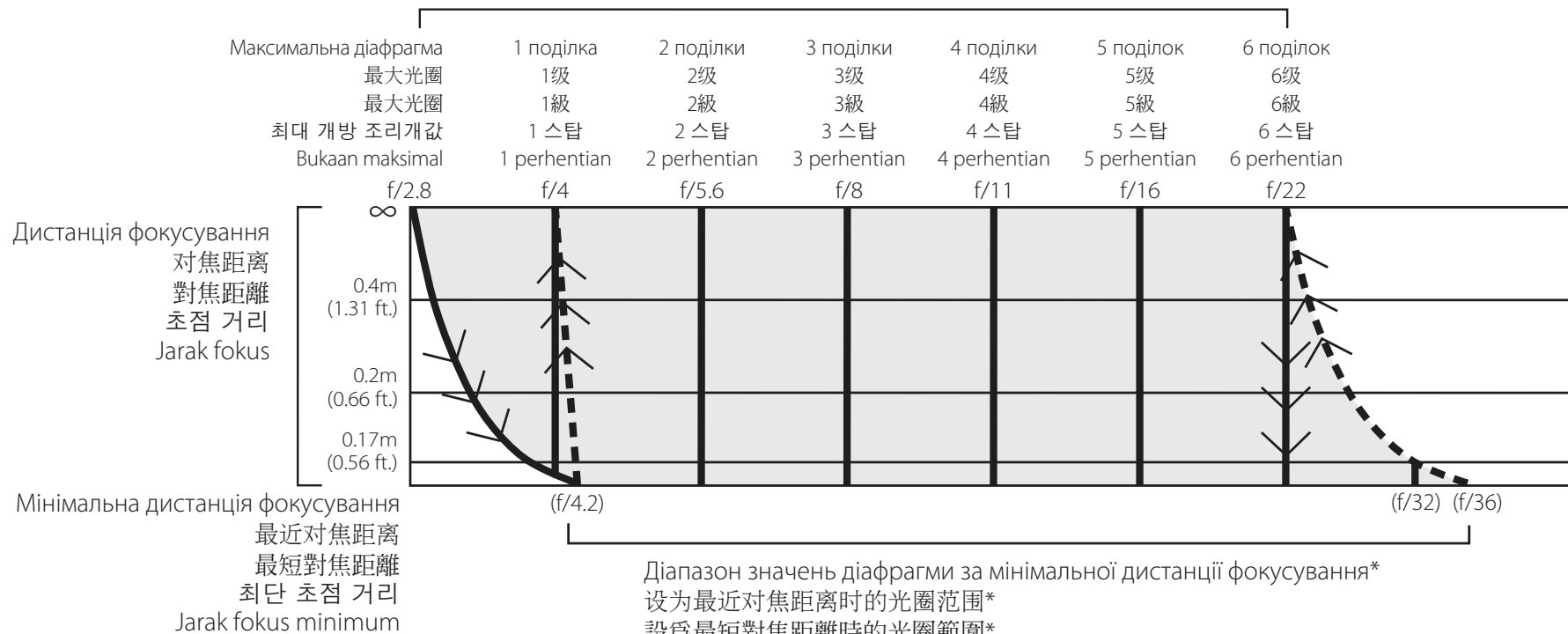
Діапазон значень діафрагми, коли вибрано фокусну відстань «безкінечність»

镜头设为无穷远时的光圈范围

鏡頭設為無限遠時的光圈範圍

렌즈 무한대로 설정 시 조리개값 범위

Kisaran bukaan saat lensa diatur ke tak terhingga





- Число f , відображене у фотокамері, коли вибрано фокусну відстань «безкінечність»
- — — Число f , відображене у фотокамері, коли вибрано мінімальну дистанцію фокусування
- * Максимальне число f ($f/36$) змінюється відповідно до кроку змінення експозиції у фотокамері.
У таблиці припускається, що крок змінення експозиції — $1/3$ EV.
- 设为无穷远时照相机所显示的 f 值
- — — 设为最近对焦距离时照相机所显示的 f 值
- * 最大 f 值 ($f/36$) 根据照相机曝光增量大小的不同而异。
表格假定曝光增量为 $1/3$ EV。
- 設為無限遠時相機所顯示的 f 值
- — — 設為最短對焦距離時相機所顯示的 f 值*
- * 最大 f 值 ($f/36$) 根據相機曝光增加級數大小的不同而異。
表格假定曝光增加級數為 $1/3$ EV。
- 무한대 시 카메라가 표시한 조리개 값
- — — 최단 초점 거리 시 카메라가 표시한 조리개 값
- * 조리개 값($f/36$)은 카메라 노출 증가 크기에 따라 다릅니다.
표는 노출 증가가 $1/3$ EV일 경우입니다.
- Tampilan angka- f oleh kamera di tak terhingga
- — — Tampilan angka- f oleh kamera di jarak fokus minimum
- * Angka- f maksimal ($f/36$) bervariasi menurut ukuran dari peningkatan pencahayaan kamera.
Tabel menganggap peningkatan pencahayaan adalah $1/3$ EV.



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