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*Leica*

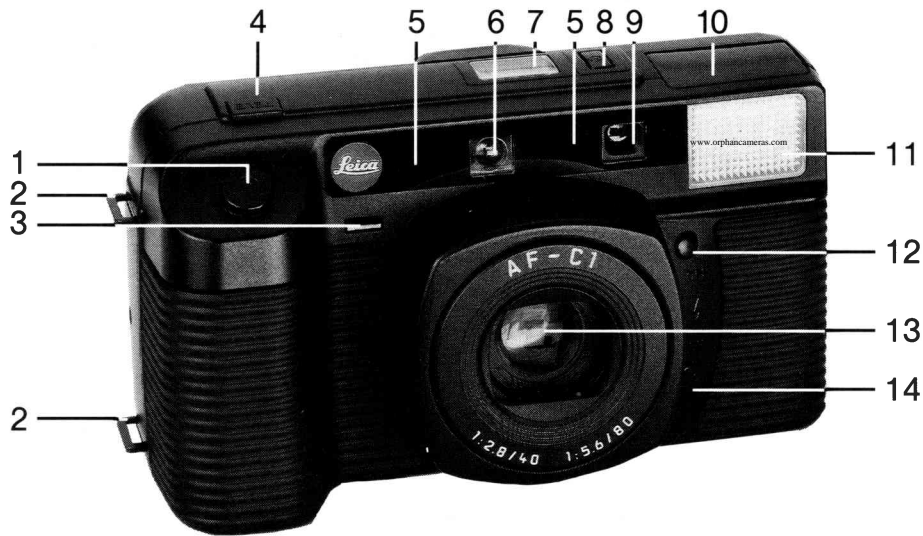
**Anleitung/Instructions/Notice d'utilisation**

**LEICA AF-C1**

### **Brief description**

The LEICA AF-C1 is a compact, fully automatic 35mm viewfinder camera, with autofocus for carefree photography. Its main features are:

- Motorized change of focal length:  
40mm f/2.8  
80mm f/5.6  
Close-up focusing to 0.7 m
- Multibeam autofocus with focus memory
- Centre-weighted integrating exposure meter with automatic correction for severe contrast
- Automatic exposure meter with memory
- Built-in flash unit, short flash intervals
- Automatic flash release in poor light
- Automatic flash activation in extreme backlit situations
- Manual flash override
- Large, bright viewfinder image
- Motor winder
- Automatic film-speed settings (DX coded)



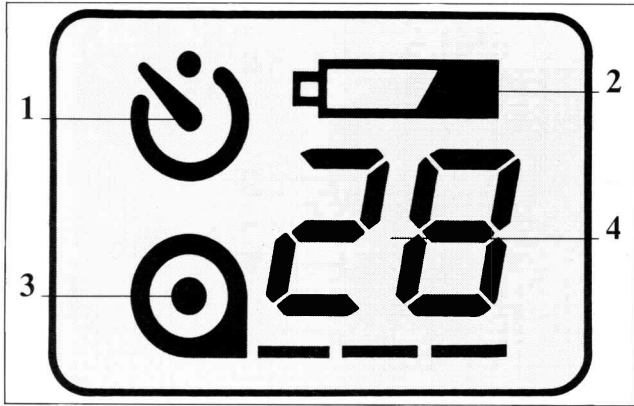
- 1 Shutter release
- 2 Eyelets for carrying strap
- 3 Self-timer LED
- 4 Focal-length selector
- 5 Autofocus sensors (not visible)
- 6 Exposure-meter window

- 7 Data display (LCD)
- 8 Self-timer button
- 9 Viewfinder window
- 10 Flash reflector
- 11 Flash diffusing screen
- 12 Flash-inhibit button



- 13 Lens
- 14 Manual flash control
- 15 Slide for opening camera back
- 16 Hinged camera back
- 17 Viewfinder eyepiece
- 18 Film-code window

- 19 Rewind switch
- 20 Cover to battery chamber
- 21 1/4" tripod thread
- 22 On/off slide and lens cover



### Data display



- 1: Self-timer symbol
- 2: Low-battery warning
- 3: Film-speed indicator
- 4: Frame counter

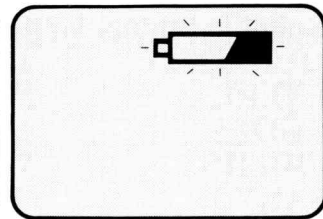
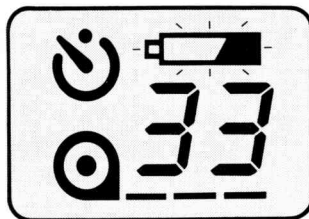
### Inserting the battery

A 6V 2CR5 lithium battery powers the LEICA AF-C1. To insert the battery, press the locking slide of the cover to the battery chamber (20) in the direction shown by the arrow and open the cover. Insert the battery with its contacts first, close the cover and let it lock into place.



### Checking the battery

Open the lens cover (see page 37) and lightly press the shutter release (1). When all the display symbols light and the low-battery warning „  “ flashes, replace the battery as soon as possible. If no symbols appear or only the low-battery warning „  “ flashes, the battery is flat and should be replaced at once.



If no symbols appear or only the low-battery warning flashes, the battery contacts may be oxidized. If so, wipe them with a clean, dry, lint-free cloth.

If the battery is partly discharged, the low-battery warning may also flash after a series of exposures in close succession. Before further exposures, wait briefly for the battery to recover.

### Note:


Cold reduces battery performance. At low temperatures, carry your LEICA AF-C1 close to your body and use fresh batteries.

### **Suitable lithium batteries**

DURACELL	DL 245
EVEREADY	EL2CR5
KODAK	KL2CR5
PHILIPS	2CR5
SANYO	2CR5
SONY	2CR5
SUNPAK	2CR5
UCAR	2CR5
VARTA	2CR5

### **Battery replacement**

When there is film in the camera, insert a new battery immediately after taking out the old. If the camera is left without a battery for more than ten minutes, the frame counter (4) in the Data display resets to 1 when you insert a new battery. After each exposure, the count increases by one and flashes for two seconds.

If you insert a battery incorrectly, i.e. with the contacts facing the battery cover, this may cause display errors. In that case, the low-battery warning „  “ may flash when you press the shutter release.

### **Caution:**

- Keep battery contacts clean.
- Lithium batteries are not rechargeable.
- Do not dispose of lithium batteries with other rubbish. They contain toxic materials that may damage the environment; return them to your supplier or hand them in for recycling.

### **Carrying strap**

Pull the carrying strap through the camera's eyelets (2) and adjust the strap to the length you require.

The Ever-ready case (code no. 18 501) can not be lost while taking pictures as long as the carrying strap is inserted through the loop inside the case.





### Lens cover

Before taking a photograph, open the lens cover by moving the slide (22) below the lens. Between exposures, the closed cover protects the lens and prevents unintentional exposures. When the lens cover is closed, all the camera's functions are switched off.

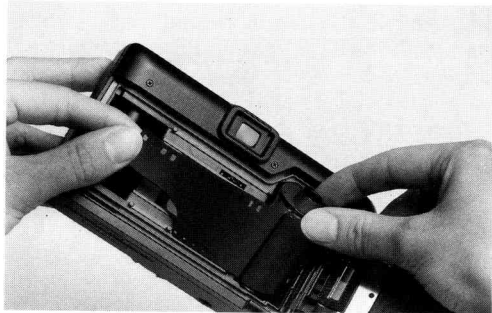
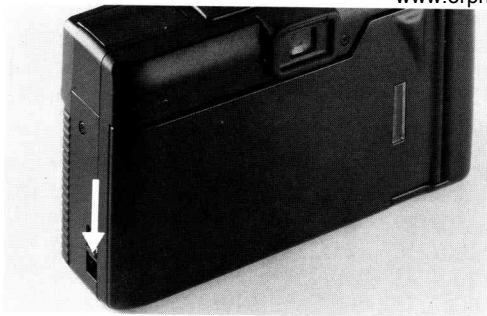
### Suitable 35 mm films

Package and cartridge of DX-coded 35mm film are marked DX. When you use DX-coded 35mm film, the LEICA AF-C1 is automatically set to the correct film speed, as follows:

Film speed in ISO			Setting
50/18°	64/19°	80/20°	64/19°
100/21°	125/22°	160/23°	100/21°
200/24°	250/25°	320/26°	200/42°
400/27°	500/28°	640/29°	400/27°
800/30°	1000/31°	1250/32°	800/30°
1600/33°	2000/34°	2500/35°	1600/33°
3200/36°			3200/36°

For slower emulsions and if the film is not DX-coded, the camera is automatically set to ISO 100/21°.

Film cartridges for 72 exposures and Polaroid instant film cannot be used.



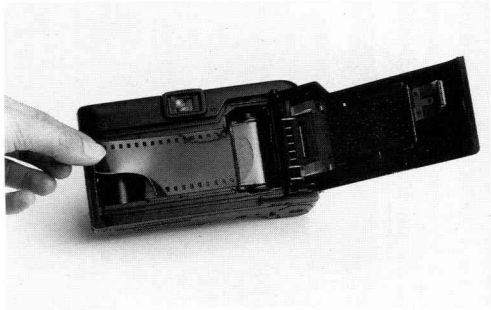
### Loading the film

- 1 While the lens is open use the slide (15) to open the camera back (16). If there is a film cartridge in the camera, check that the film has been rewound, i.e. that the frame counter is at 0 before you open the camera back.
- 2 Insert a film cartridge in the film chamber as shown on the photograph.

**Caution:** Never load or remove film in

bright light. If necessary, load the film in your body's shadow.

- 3 Lay the film flat between the film guides, pull its tip over the take-up reel as far as the camera's side panel. If you have pulled out too much film, carefully push it back into the cartridge.



4 Close the camera back (16). The film moves automatically to the first frame. The camera is ready for the first exposure when the frame counter is at 1.

If 0 flashes on the display, the film is not loaded properly. Reopen the camera back, take out the film, and reinsert it as described in points 2 to 4 above.



### **Changing the focal length of the lens**

When you open the lens cover, the lens is set automatically to a focal length of 40mm. Press the focal-length selector (4) at the top of the LEICA AF-C1 (marked Tele) to switch to the 80mm focal length. Press the focal-length selector again to switch back to 40mm.



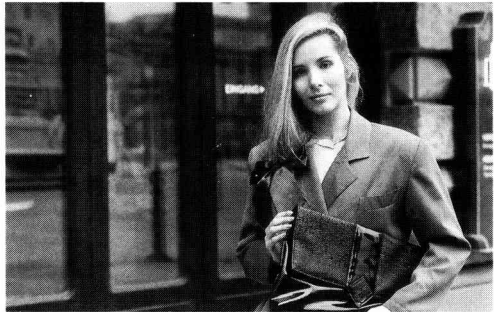
When you select the 80mm focal length, the flash reflector (11) automatically comes out of the camera housing. It automatically returns into the housing when you change back to 40mm. This ensures ideal illumination for the focal length in use.



If you close the lens cover after using the 80mm focal length, the camera automatically switches back to the 40mm focal length and the flash reflector returns into the camera housing.



Taken with 40mm focal length.

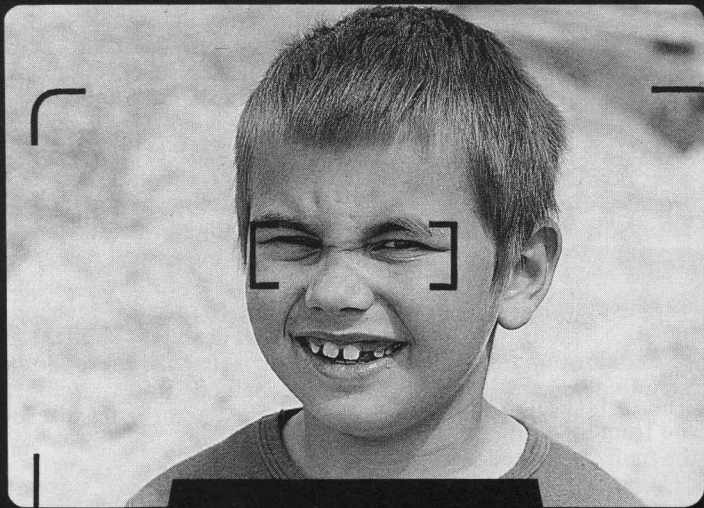


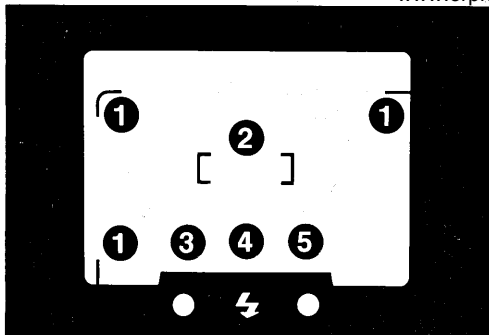
Taken with 80mm focal length.



### **Holding the camera**

To avoid camera shake, hold the LEICA AF-C1 as shown on the photographs. Also check that your hand or the camera strap etc does not cover the lens, flash, autofocus window, or the exposure-meter window. In vertical-format exposures, the flash should be at the top because lighting from above produces a more natural impression.





### Viewfinder display

1: Close-up marks:

For close-ups, i.e. from 0.7m to 1m with the 40mm lens and from 0.7m to 2m with the 80mm lens, the frame is defined by the close-up marks (1), and the right-hand and bottom edges of the viewfinder image.

2: Autofocus frame:

Point the camera so that the main subject is

within this frame. It need not fill it.

3: Green ready signal:

This lights when the exposure can be made without flash. This signal flashes when the main object is too close (less than 0.70m) and thus out of focus.

4: Green flash ready symbol:

This lights to indicate that the flash unit is ready for use. When it flashes, the object is either too close or too far away from the camera for a correct flash exposure.

5: Red flash warning (low-light warning):

While the flash is recharging, this dot remains lit and the shutter release is blocked. When after a few seconds the flash has been recharged, this warning signal is extinguished and the flash ready symbol lights or flashes.



If the flash is switched off (see page 50) and the available light is insufficient for an exposure, the low-light warning flashes.

When one of the three signals lights or flashes, the camera stores the focusing distance until you release the pressure from the shutter release.

### **Taking a photograph**

For photographs with the main subject in the centre of the image:

- Point the camera to bring the main subject within the autofocus frame, then lightly touch the shutter release (1). When the green ready signal (3) lights, press the shutter release fully home.

In poor light, the green flash symbol (4) lights when you touch the shutter release.

When you press the shutter release fully home, the flash works automatically to ensure the correct exposure (also refer to page 48).

- After the exposure the camera automatically moves the film to the next frame and the frame counter increases the count by one.



### **Storing focus and shutter setting**

When the main subject is outside the autofocus frame in the composition you want, store the focus setting as follows:

- Point the camera to bring the main subject within the autofocus frame, then lightly touch the shutter release. One of the two green signals (3 or 4) in the viewfinder lights to confirm that the camera is storing the focus and the correct shutter setting for the main subject.



- Keep your finger lightly on the shutter release, compose your picture, and press the shutter release fully home.

Take your finger from the shutter release to cancel the stored focus and shutter settings.

**Note:**

Storing the focusing distance is also useful for focusing accurately on difficult autofocus subjects, such as:

- Bright light sources, such as floodlights.
- Very shiny surfaces and strong reflections, such as water, mirrors, brightly polished surfaces of a motor car, etc.
- Bright transparent objects, such as flames, fireworks, and hair.
- Dark objects and low-reflective surfaces
- Objects behind glass, such as windows and showcases.

In this type of situation, focus on another object at the same distance and store the focus setting as described.

**Photography with the automatic flash system**

In poor light and for extreme contrast, the camera automatically activates the flash system.

**Automatic flash**

In poor light, when long hand-held exposures are likely to cause camera shake, for example in dark interiors and in twilight, the camera automatically activates the built-in flash unit.

- Until the flash is charged, the red flash warning light (5) remains lit and the shutter release is blocked.
- When after a few seconds the flash has been recharged, this signal is extinguished. The green symbol (4) lights when the flash is ready. It flashes when the object is either too close or too far away from the camera for a correct flash exposure.

The available flash range depends on the film speed. For best results, make certain that your

main subject is within range of the flash for the focal length in use.

ISO film speed	Focal length	
	40 mm	80 mm
50/18°, 64/19°	0.7- 3.2m	0.7- 2.8m
100/21°	0.7- 4.5m	0.7- 4 m
200/24°	0.7- 6.4m	0.7- 5.6m
400/27°	0.7- 9 m	0.7- 8 m
800/30°, 1000/31°	0.7-12.5m	0.7-11 m
1600/33°	0.7-18 m	0.7-16 m
3200/36°	0.7-25 m	0.7-22 m

**Using the automatic flash to light up a dark subject**

When contrast is extreme and the subject filling the autofocus frame is dark, as for example in backlit portraiture, the flash unit is also activated automatically.

- The red flash warning (5) lights until the the flash warning is charged and blocks the shutter release.

- The green flash ready symbol (4) lights when the flash unit is charged. This symbol flashes if the range from the camera to the subject is too great or too small for a correct flash exposure.

### Photography with manual flash control

There is provision for manual control of the flash system. This allows you to use flash when the automatic system does not require it and to switch it off when it does.

### Manual flash override on

To use the flash unit irrespective of the available light, press the flash-override ON button (14) at the same time as you press the shutter release. This is recommended, for example, when in daylight the subject is in shadow or is seen against a much brighter background (backlit photography). The use of flash often helps avoid the greenish hue that occurs when slides are taken in light from fluorescent lamps.



Proceed as follows:

- 1: Hold the flash override button (14) pressed down.
- 2: Point the autofocus frame at the subject, lightly press the shutter release.
- 3: Check that the green flash ready symbol in the viewfinder is lit, then press the shutter release fully home.

**Note:**

Check that the main subject is within range of the flash for the focal length in use.

In a portrait (or group photograph) taken with flash, the subject's eyes may appear red if they reflect the flash back to the camera. Avoid letting the subject of a portrait look straight at the camera. Wide-open pupils exaggerate the red-eye effect. To avoid this, switch on as much room lighting as possible and ask the subject to look at a right light immediately before the exposure, in order to reduce the aperture of the pupils.

**Switching off the flash unit**

To switch off the flash unit, press the flash-inhibit OFF button (12). This may be useful, e.g. for "mood" photographs in twilight and for photographs in museums where flash exposures are not allowed.





Proceed as follows:

Keep the flash-inhibit button (12) pressed down when you release the shutter. The red low-light warning flashes to indicate that there is not enough light for a hand-held exposure (use a tripod!).



### Self-timer

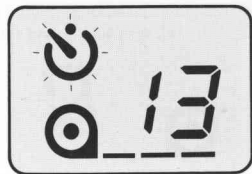
To set the self-timer, press the self-timer button (8) next to the data display on top of the camera. The self-timer symbol  appears in the data display.

When you press the shutter release, this starts the self-timer's 10s countdown. A flashing red LED on the front of the camera and the symbol  in the data display indicate that the count-

down is running. After the exposure, the symbols are extinguished.

If you want to take another self-timer exposure, reset and restart the self-timer as described above.

To cancel the self-timer at any time, even when the countdown is running, change focal length or shut the lens cover.

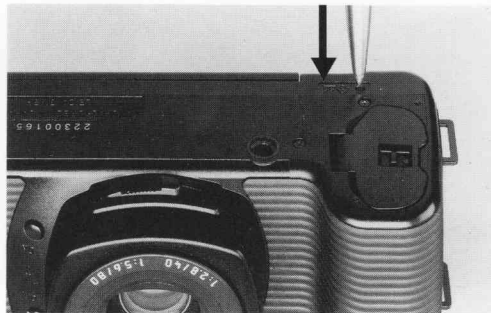
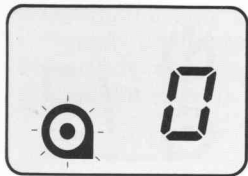


### Automatic rewind of exposed film

The camera automatically rewinds the film after the final exposure. The frame counter counts backward. When the film is fully rewound in its cartridge, the motor drive stops and the "⊙" symbol flashes in the data display. You can now safely open the camera back and remove the film cartridge.

#### Caution:

If the motor stops but the "⊙" symbol does not flash in the display, replace the battery, **but do not open the camera back**, because this would allow the entry of light and spoil the partly rewound film.



### Rewinding a partly exposed film

You can use the motor winder to rewind a partly exposed film. To do so, use a ballpoint pen or similar object to press the rewind switch "⊙◀◀" (19) in the camera base.



## What to do if . . .

<b>Fault</b>	<b>Cause</b>	<b>Remedy</b>
Entire picture out of focus	Camera moved as the shutter was released	Hold camera steady, press shutter release gently
Main subject out of focus	Autofocus sensors covered Subject too close Main object outside autofocus frame Special focusing conditions	Keep hands, carrying strap etc out of the way Must be at least 0.7m away Use focus memory (see page 46) Focus on substitute object at the same distance and use focus memory (see page 47)
Picture hazy or partly out of focus	Lens not clean	Clean lens (see page 54)
Picture too dark, or partial picture only	Lens or flash covered Range excessive for flash	Keep hands, carrying strap etc out of the way Do not exceed flash range (see page 48) Use faster film
Shutter release blocked	Lens cover closed Battery contacts oxydized Flat battery	Open lens cover Wipe battery contacts (see page 36) Replace battery (see page 36)

### **After-sales service**

For servicing and repairs to your LEICA AF-C1, contact the after-sales service of your local authorized Leica agent (see your warranty card).

### **Tips for looking after your LEICA AF-C1**

Use a soft lens brush or a dry, soft, clean cloth, such as a clean cotton handkerchief, to remove dust on the front lens.

To remove stubborn spots on the front lens, breathe gently on the lens and immediately wipe it dry with a soft, untextured, lint-free cotton cloth. To prevent sweat from your hands touching the lens, do not touch the part of the cloth that is later used to wipe the lens dry.

Do not use special lens cloths such as those sold for cleaning spectacles. They often contain chemicals that may damage the camera lens. The composition of the glass used for spectacle lenses is different from that in camera lenses.

Do not use alcohol or other chemical solvents for cleaning the camera body. If necessary, clean the camera with a soft, dry cloth.

Do not expose your LEICA AF-C1 to hard knocks, heat, or damp. Do not leave your camera in the glove compartment of a car or in any other place where it may be subjected to high temperatures.

Extremely low temperatures affect the functioning of your camera. In cold weather, keep your LEICA AF-C1 in a warm inside pocket. Avoid abrupt changes of temperature, as these may cause condensation and affect the camera's functions.

To avoid expensive repairs or total loss, do not let the LEICA AF-C1 become wet.

When your camera is not in use, keep it in a cool, dry place, free from dust and chemicals.

## Technical data

### Type:

Compact 35mm viewfinder autofocus camera with motorized changeover for two focal lengths:

40mm f/2.8

80mm f/5.6

Focusing range:  $\infty$  to 0.7m.

Smallest object field:

40mm focal length: about 580mm x 380 mm, image scale about 1:16

80mm focal length: about 290mm x 190mm, image scale about 1:8

### Autofocus

Active multi-beam infra-red autofocus with focus memory and coupled exposure memory. Focusing range: 0.7m to infinity.

### Exposure system:

Automatic exposure system with automatic flash release in poor light. Working range for ISO 100/21°: from EV 6 ( $1/8s$  at f/2.8) to EV 17 ( $1/400s$  at f/18) with 40mm lens; and from EV 8 ( $1/8s$  at f/5.6) to EV 19 ( $1/400s$  at f:36) with 80mm lens.

### Exposure meter:

Centre-weighted integrating exposure meter system, automatic correction for excessive contrast.

### Flash system:

Automatic flash release in poor light or extreme contrast. Flash illumination automatically adjusts to angle of focal length in use. Manual flash override and inhibit controls. Shutter release remains blocked until flash is ready. Flash intervals with new battery about 1.8s.

**Film speed:**

Set automatically to speed of DX-coded film, from ISO 50/18° to 3200/36°; setting ISO 100/21° for film without DX code.

**Viewfinder:**

Autofocus frame, marked for close-ups. Green ready light, green flash ready light, red flash warning.

**Viewfinder magnification:**

0.5x for 40mm lens, 1x for 80mm lens. Viewfinder image 85% of field at 3m.

**Film transport:**

Automatic threading, motorized transport to frame 1, winds film one frame after each exposure, automatic rewind at end of film, automatic rewind stop; film is rewound completely into cassette. Manual rewind control possible.

**Data display:**

Liquid-crystal display; symbols for self-timer, low battery, film loaded, frame counter.

**Self-timer:**

10s countdown; flashing red LED on camera front indicates when the countdown is running.

**Power supply:**

6V 2CR5 lithium battery.

**Battery life:**

Approximately 25 36-exposure films, assuming about 50% with flash.

**Overall dimensions (l x w x h):**

40mm focal length: 140mm x 60mm x 76 mm  
80mm focal length: 140mm x 83mm x 92mm

**Weight (without battery): 345 g**