

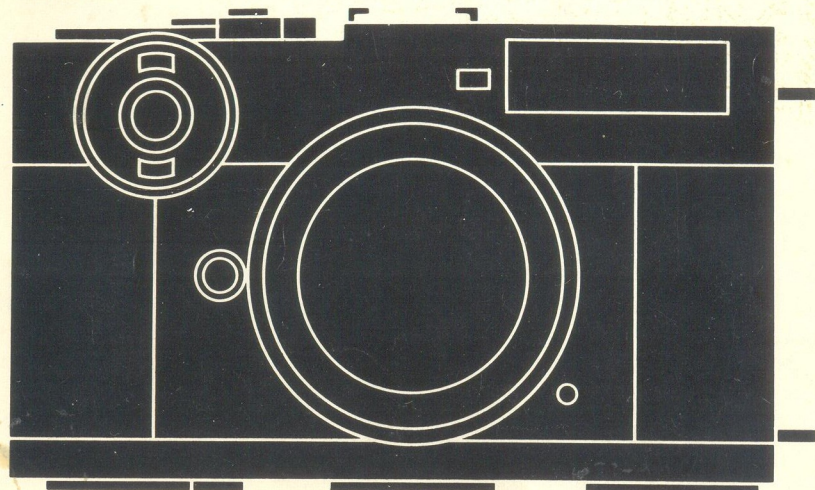
**Minolta** MINOLTA MASTERS PHOTOGRAPHY

CL 706E-C1

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# LEITZ MINOLTA CL

*Leitz*  
Minolta



OWNER'S MANUAL **E**

The LEITZ MINOLTA CL is the first compact rangefinder camera with interchangeable lenses and selective through-the-lens exposure metering. It features a bayonet lens mount identical with that of the LEICA M series cameras. The small size and light weight of the LEITZ MINOLTA CL make it an ideal take-along camera. This camera is never in the way: it will slip into a pocket or handbag. The LEITZ MINOLTA CL will thus be your constant companion ready always to capture anything that takes your fancy. LEITZ MINOLTA CL photography is fun. But to fully enjoy the many features of your camera you must also know how to operate it. This little booklet explains it all, with numerous useful hints. Read it carefully to get the most out of photography and your new LEITZ MINOLTA CL.

When you buy a new mercury battery, give the old one to your dealer. A mercury battery is thoroughly sealed so that the contents will not leak out while you are using it in a camera. To prevent possible pollution, however, when you want to buy a new mercury battery, take the old battery along and give it to your dealer so that he can dispose of it for you properly.

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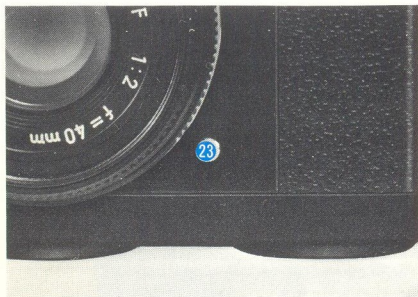


## Names of Parts

- |                            |   |
|----------------------------|---|
| 1. Automatic frame counter | 8. Bayonet lock button                  |
| 2. Rapid winding lever     | 9. Accessory shoe with hot-shoe contact |
| 3. Shutter speed index     | 10. Depth of field scale                |
| 4. Film speed setting      | 11. Aperture ring and scale             |
| 5. Release button          | 12. Focusing mount and distance scale   |
| 6. Shutter speed dial      |   |
| 7. Red lens locating mark  |   |

- |  |                                |
|--|--------------------------------|
| 13. Rangefinder window                         | 19. Base plate locking latch   |
| 14. Illuminating window for bright-line frames | 20. Tripod bush, 1/4"          |
| 15. Viewfinder window                          | 21. Film rewind release button |
| 16. Carrying strap eyelets                     | 22. Film type indicator        |
| 17. Finder eyepiece                            | 23. Battery test button        |
| 18. Rewind crank                               | 24. Camera back                |

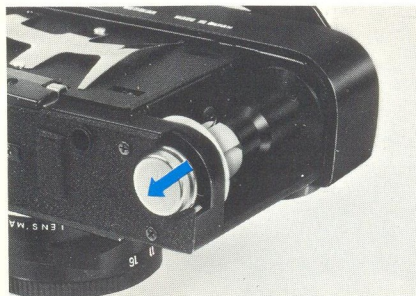




### Testing the battery

The built-in exposure meter is powered by a mercury oxide cell. Use a Mallory PX 625 button cell or equivalent cells of other makers. To test the battery, hold the camera horizontally and view through the finder. Turn the shutter speed dial (6) to make the battery test signal appear in the cut-out in the top righthand corner of the finder. (This will appear when the dial is set at "60" and the ASA setting is "100".) Press the battery test button (23). If the

meter needle now moves into the central rectangular cut-out at the right of the finder, the battery is serviceable. Do your battery test before changing film!



### Changing the battery

Open the camera back (see page 19). The button cell is now visible just below the film take-up spool for easy changing.

### Using filters

M-ROKKOR LENS fit  $\phi 40.5\text{mm}$  filters. Through-the-lens metering generally allows for the filter factor. Films, however, differ in their spectral response; hence the readings may not be fully reliable with denser filters. For instance, with an orange filter the exposure must be increased by two stop; with a red filter, by about three stops. No precise values can be quoted, as the red sensitivity of black-and-white films can vary appreciably.





### Fitting the lens

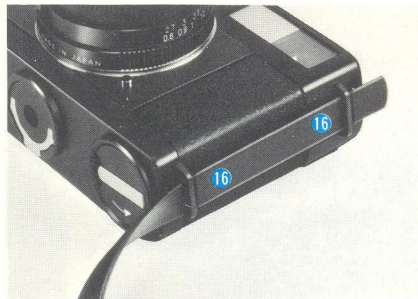
First remove the body cap from the camera body by depressing the bayonet lock button (8) and turning the cap to the left; then lift out.

To fit a lens, first line up the red locating mark (7) on the lens mount opposite the bayonet lock button (8) with its red mark. Insert the lens and turn to the right to engage the bayonet lock. An audible click is produced when the lens is securely seated. Always change lenses in the shade (shelter camera with your body if necessary).



### Removing the lens

Grip the lens by the fixed rear ring press the bayonet lock button (8), turn the lens to the left and lift out.



### Fitting the carrying strap

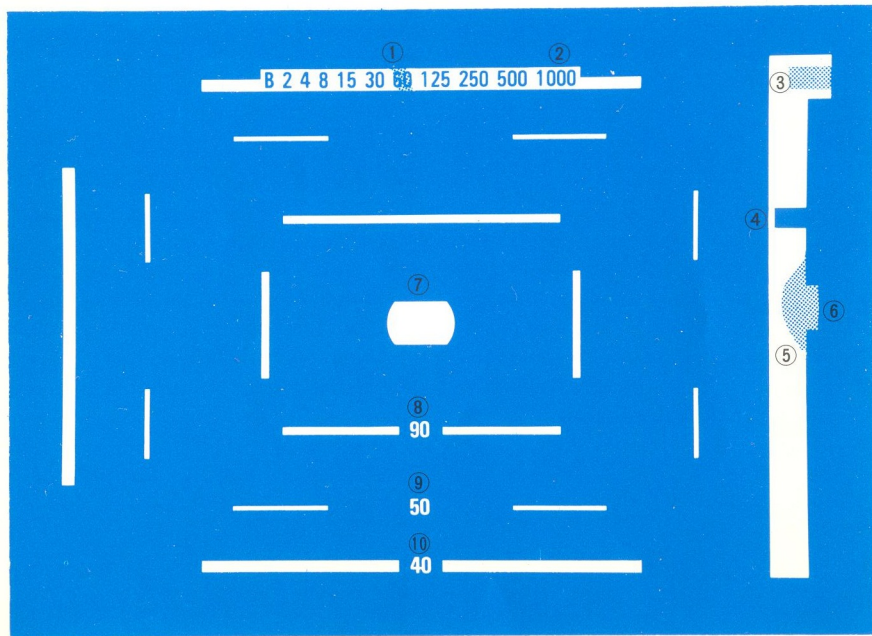
First thread the strap supplied with the camera into the non-slip pad. Then push the plain end of the strap through the two eyelets (16) in the side of the camera and pull through the buckle at the other end of the strap. Adjust the strap to a comfortable length.



### Holding your CL

For a steady three-point support, grip the camera with the right hand so that the index finger is on the release button or shutter speed dial and the thumb against the rapid winding lever. Use the left hand either to support the lens from below for rapid focusing and aperture adjustment, or to grip the left side of the camera. In addition, press the camera to your forehead.

For vertical shots, simply turn the camera 90°. Keep the same grip on the camera as for horizontal shots.



## The bright-line view- and range-finder

The combined bright-line finder system of the LEITZ MINOLTA CL is coupled with the lens. It incorporates a range-finder, and serves as a high-quality viewfinder. The meter measuring field is a circle 1/3 the height of the frame in use. For the 90mm lens, the range-finder patch can be considered the measuring field. You record on the film everything you see within the appropriate brightline frame. The bright-line frames, too, are coupled with the focusing movement for automatic parallax compensation, to allow for the difference in location between the lens axis and finder axis. The rangefinder field in the center of the viewfinder appears brighter than the surrounding image area.

On fitting 40mm, 50mm or 90mm lenses, the corresponding bright-line frame automatically appears in the

finder. The 40mm frame is always visible. With a 40mm lens on the camera, the 50mm frame also remains in view.

A scale above the finder area shows the selected shutter speed.

The exposure meter needle is visible at the right of the finder field. To set the correct exposure, this meter needle must be centered inside the rectangular cut-out at the right hand edge of the finder.

1. Shutter speed needle
2. Shutter speed scale
3. Battery test signal
4. Exposure meter needle
5. Red signal
6. Proper exposure point
7. Rangefinder field
8. 90mm frame
9. 50mm frame
10. 40mm frame

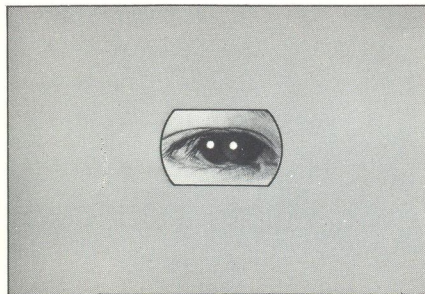


## Focusing

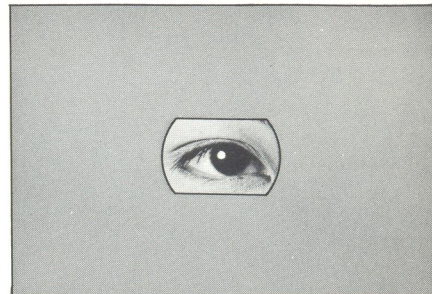
The rangefinder field appears in the center of the finder as a bright and sharply outlined area. If you block the large viewfinder window (15) with one finger, only the central rangefinder field remains visible together with the reflected bright-line frames, the shutter speed scale and the exposure meter needle. You can focus the image by double-image or split-image matching. For double-image (coincidence) focusing,

for instance on a highlight in the eye in a portrait, observe the subject through the finder and turn the lens focusing mount (12) until the two images fuse into one.

Split-image focusing: Sight an edge or other clear outline and turn the focusing mount (12) until the broken outline appears continuous in the rangefinder field. This is the more accurate and hence the preferable method of focusing.

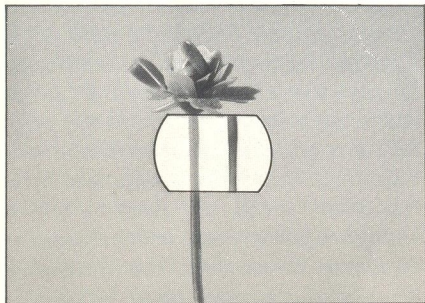


Double image = unsharp



Single image = sharp

Broken and double line = unsharp



Continuous single line = sharp



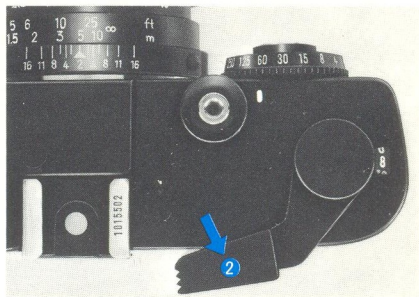




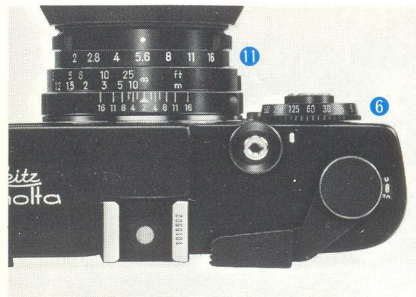
### The exposure meter

For accurate exposure measurement, you must set the correct film speed on the film speed dial.

The film speed dial (4) shows equivalent ASA and DIN speed values in two windows. To set the speed, lightly press down the button (4) and turn it to bring the appropriate speed value opposite the index mark in the window. You can set film speeds from ASA 25 to 1600 or 15 to 33 DIN. For meter readings, the shutter must be **tensioned** (cocked) and the rapid winding lever (2) pulled slightly **out of its**

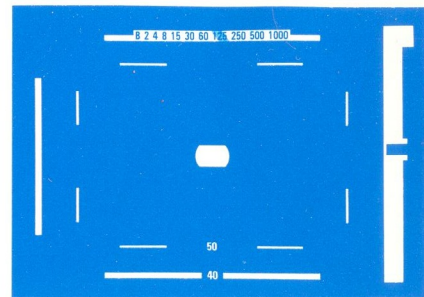


**rest position.** After releasing, the meter needle may move in the finder but no exposure readings are possible. Hold the camera horizontally for exposure readings. The LEITZ MINOLTA CL exposure meter measures selectively through the lens, i.e., it reads a central image portion. Use the rangefinder area as a guide to the measuring field. This rangefinder field, extended to a full circle, shows the measuring area with the 90mm lens on the camera. With the 40mm lens the measuring area is about twice as large within the



finder field. We have deliberately not included additional markings to avoid cluttering up the finder.

The meter needle of the built-in exposure meter appears to the right of the finder. The exposure is correctly set when the meter needle is lined up with the central rectangular cut-out at the right finder edge. This is controlled by the lens aperture ring (11) and the shutter speed dial (6). You can preselect either the exposure time or the aperture. If a red signal appears at the right-hand side of the finder on



adjusting the shutter speed dial, switch to a suitable faster speed (shorter time) to make the red signal disappear. Then stop down or open the lens aperture to center the meter needle in the rectangular cut-out. If you cannot center the needle, the available light is inadequate for a reading.



The selected shutter speed is always visible on a scale above the finder area. Selective measurement of a central image area with the LEITZ MINOLTA CL makes close-up readings — essential for many subject conditions — possible at normal distances. As a general rule, measure the spot on which you focus.



Selective light metering also copes with problems of unbalanced brightness distribution, e.g., predominant light or dark areas.

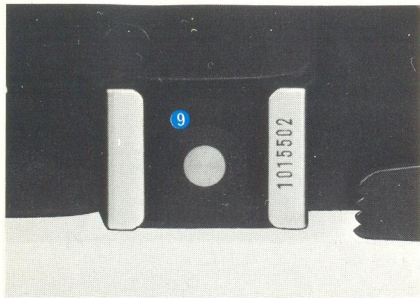


In the illustrations, one landscape has a large sky area while the other includes only foreground. Yet both need the same exposure; so measure a medium-tone area in both cases.



When shooting snow scenes in sunlight, measure an area of snow in the shade, or sight the subject so that the measuring field takes in approximately equal areas of snow and shadow. The circles marked in the illustrations show examples of preferred areas for selective readings.



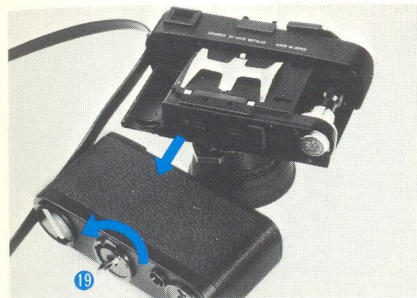


### Flash synchronization

The LEITZ MINOLTA CL can be used with all flash units equipped with a hot-shoe contact. Push the unit into the accessory shoe (9); this automatically synchronizes the flash with the camera. The accessory shoe also takes commercial synchronizing adapters for flash units with a cable link. For electronic flash, set any shutter speed between 1/60 second (marked in yellow) and B.

### Flash table

Electronic flash	B to 1/60 second
Flash bulbs:	
Class M	} B to 1/30 second
Class MF	
Class FP	

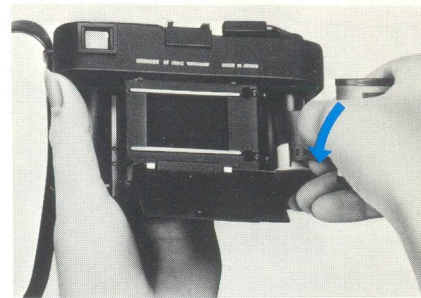


### Loading the film

First check that the camera is empty by turning the rewind crank (18) in the direction of the arrow. If you feel a resistance, proceed as indicated on page 21.

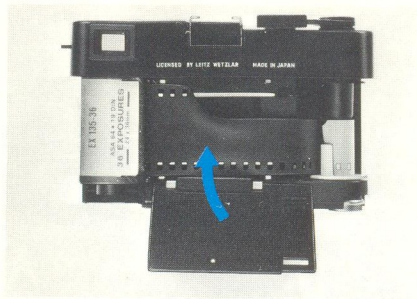
The LEITZ MINOLTA CL takes only films in cartridges with a standardized spool, having lugs inside **both ends**.

To load the film, unfold the base plate latch (19) and turn to the left. The whole camera back and base plate can then be pulled off and remain attached



to the carrying strap. Fold away the pressure plate to open the film track. The film leader can be – but need not be – trimmed. Push the film leader obliquely from above over one of the lugs of the take-up spool, as shown in the illustration. Then insert the cartridge in the empty film chamber. Check that the film edge runs parallel to the film track. On carefully operating the rapid winding lever (2) the sprockets of the transport shaft **must**





engage the perforation holes of the film. Fold down the pressure plate and push the camera back on again. Lock by turning the base plate latch (19) and fold down. Advance the film by two frames, releasing the shutter each time.

After the second transport movement, gently tension the film by turning the rewind crank (18) in the direction of the arrow.

The film advances correctly if the rewind crank (18) rotates during ope-

ration of the winding lever. Advance the film (after releasing the shutter) once more; the automatic frame counter (1) now indicates No.1 and the camera is ready for the first exposure. The frame counter (1) operates only if the camera back is correctly locked in position.

After loading the film remember also to set the correct film speed (see page 14).

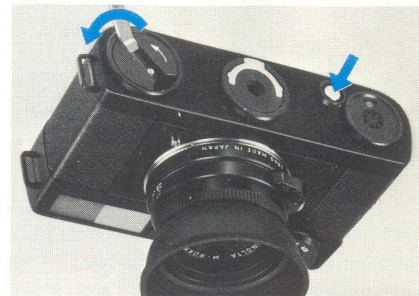


### The film type indicator

The film type indicator (22) in the camera base can be set to the type of film loaded in the camera, indicated by the following symbols:

- ☐ = black-and-white film
- ☀ = daylight type reversal color film
- ☾ = artificial light type reversal color film

NE = negative color film



### Unloading the film

Once the last frame is exposed, the rapid winding lever (2) can no longer be operated. The film now needs rewinding. Press the rewind release button (21) to disengage the transport, unfold the rewind crank (18), and turn in the direction of the arrow. Keep turning until you feel a slight resistance, then rotate the crank by a further turn to wind the film fully back into the cartridge.

Open the camera and remove the film cartridge.

## Care of your LEITZ MINOLTA CL and its lenses

Each lens carries engraved on the front mount the name, speed, focal length and its individual serial number. Make a note of this number, together with the camera serial number marked on the accessory shoe (9). This information can be useful in case of loss. The brownish-purple sheen on the glass surfaces indicates that you have a modern coated M-ROKKOR lens. This anti-reflection coating greatly increases image brilliance and contrast.

Clean off any dust with a soft sable brush or carefully wipe with a well washed cotton cloth (for instance a handkerchief) or a lens tissue. Avoid treated tissues as sold for cleaning spectacles. Often these are impregnated with chemicals which can attack the optical glass surface. Spectacle glass has a different composition from the optical glass used for high-quality lenses. When you use the camera under

adverse atmospheric or dusty conditions, take care to protect the lens against salt water spray or sand, possibly, by a colorless UV filter. (Caution: In certain light conditions — especially when shooting against the light or with artificial light — placing any glass element, even a plane-parallel filter, in front of the lens can sometimes cause disturbing reflections).

Avoid leaving your camera in bright sunshine, especially with the lens facing up, as the lens could then act as a burning glass. Protect the camera body and shutter by using the lens cap, or by keeping the camera in its case or at least in the shade, away from excessive heat.

## Accessories

### Interchangeable lenses

The two lenses specially provided for your LEITZ MINOLTA CL are a M-ROKKOR 40mm f/2 and the M-ROKKOR 90mm f/4.

The bayonet lens mount is identical to that of the LEICA M models. This allows the use of numerous lenses from the LEICA M system.



For details as to lenses and accessories that can be used with the LEITZ MINOLTA CL camera, please refer to your nearest Minolta service station or Leitz' representative for Japan:

## LEITZ OVERSEAS SERVICE STATION LIST

Following are the Leitz overseas service stations equipped to repair and service the LEITZ MINOLTA CL camera:

### West Germany

ERNST LEITZ GmbH  
633 Wetzlar  
Postfach 2020  
West Germany

### Belgium

Ets. F. Masson S.p.r.l./P.v.b.a.  
51, Chaussee de Charleroi  
Steenweg op Charleroi 51  
Bruxelles 6/Brussel'6

### Denmark

Nordisk optisk Compagni A/S  
Norre Farimagsgade 3-5  
1364 Kobenhavn K

### Spain

Casa Alvarez  
Calle Mayor, 65  
Madrid 13

### Finland

O.Y. Christian Nissen A.B.  
Bulevardi 7  
P.O. Box 12226  
Helsinki 12

### France

E. Leitz France, 17-19, rue  
Danton, 94 Le Kremlin-Bicetre

### England

Leitz (Instruments) Ltd.  
48, Park Street  
Luton, LUI 3HP

### Italy

Ippolito Cattaneo S.p.A.  
Via Cesarea, 5  
Casella Postale 696  
1-16100 Genova

### Holland

N.V. Fototechn. Groothandel Odin  
Graafseweg 66-68  
Postbus 138  
Nijmegen

### Norway

Jean Mette A.S.  
Optisk afdeling  
Viggo Hansteens vel 27  
Vinderen-Oslo 3

### Austria

Leitz-Austria  
Friedrich-von Rosen & Co., KG  
Dr.-Karl-Lueger-Ring 12  
1014 Wien 1

### Switzerland

Petraglio & Co. S.A.  
Silbergasse 4  
2501 Biel

### Sweden

Brandt Optik A.B.  
Karlavägen 41  
P. O. Box 5089  
10242 Stockholm 5

### Canada

Walter A. Carveth Ltd.  
901 Yonge Street  
Toronto, Ont.



**U. S. A.**

E. Leitz Inc.  
Rockleigh  
New Jersey 07647

**Portugal**

Wild Portugal  
Praca das Aguas Livres. 8  
Lisboa 2

**Kenya**

Leitz East Africa Ltd.  
P. O. Box 14993  
Nairobi

**Brazil**

Microtecnica  
Instrumental Cientifico Ltda.  
Avenida Rio Branco 277-Gr. 1101  
Caixa Postal 1220-ZC-00  
Rio de Janeiro

**Chile**

Forestier, Sociedad Comercial Ltda.  
Esmeralda 1069  
Casilla 191-V  
Valparaiso

**Colombia**

Sanitas Ltda.  
Carrera 12, No 55-28  
Apartado Aereo 53068  
Bogota-2

**Mexico**

Comercial Ultramar S.A.  
Calle Colima 411  
Apartado Postal 24346  
Mexico 7, D. F.

**Venezuela**

C. Hellmund & Cia. S.A.  
Avenida Pantin  
Edificio Casa Hellmund  
Chacao  
Apartado 589  
Caracas

**Israel**

A. Berner & Sons Ltd.  
P.O. Box 447  
Tel-Aviv

**Australia**

Wild (Australia) Pty. Ltd.  
P.O. Box 21  
North Ryde, N.S.W. 2113

**New Zealand**

E.C. Lackland & Co., Ltd.  
327-329 Dominion Road  
P.O. Box 56-036  
Auckland 3

**South Africa**

T & C Leitz Instruments (Pty.) Ltd.  
P.O. Box 1366  
Johannesburg

**Hong kong**

Schmidt & Co. (H.K.) Ltd.  
1511 Prince's Building  
10 Chater Road, 15th Floor  
P.O. Box 297  
Hong Kong