



The essentials of imaging

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Marine Case

MC-DG100

INSTRUCTION MANUAL

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IMPORTANT NOTICE

- Before using the Marine Case, confirm the seals are watertight and the installed camera functions correctly. Refer to this manual on testing the case.
- Minolta is not responsible for any direct, consequential, or incidental damage or loss from the use of this product. This includes, but is not limited to, damage to the camera, battery, or memory card or loss of image data and any incidental expense incurred.

Thank you for purchasing this Minolta product. Please read this instruction manual before using the product to achieve the best results from the Marine Case. Safely store the manual and the warranty card for future reference. This manual contains information on the operation of the Marine Case, for information on camera operation, refer to the camera's instruction manual.

This product is designed to work with accessories manufactured and distributed by Minolta. Using accessories or equipment not endorsed by Minolta may result in unsatisfactory performance or damage to the product and its accessories.

ABOUT THE MARINE CASE

- Designed for use with the Minolta DiMAGE X digital camera.
- Protects the camera down to depths of 30m (approximately 100 feet) underwater.
- The extremely compact shell retains the camera's portability while protecting it from the elements on land or sea.
- All camera operations are available when the case is sealed.

PACKING LIST

Check the packing list before using this product. If any items are missing, immediately contact your camera dealer.

Marine Case MC-DG100
O Ring OR-DG100
O-Ring Grease GS-DG100
Desiccant DT-DG100 (5 pieces)
Hand Strap HS-DG100
Instruction Manual
Warranty Card
Insurance Application Form

TESTING THE MARINE CASE

Before using the Marine Case, confirm the seals are watertight.

- It is recommended to check the case without the camera at the same water depth as the intended dive. If this is not possible, submerge the case in a large pool of water such as a bathtub.
- The water used for the test should be at the ambient temperature. Never use hot water.
- Before diving, check the case again at an approximate depth of 1m (3 1/2 feet).

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FOR PROPER AND SAFE USE

Read and understand all warnings and cautions before using the Marine Case. Always follow the warnings and cautions in the camera's instruction manual.



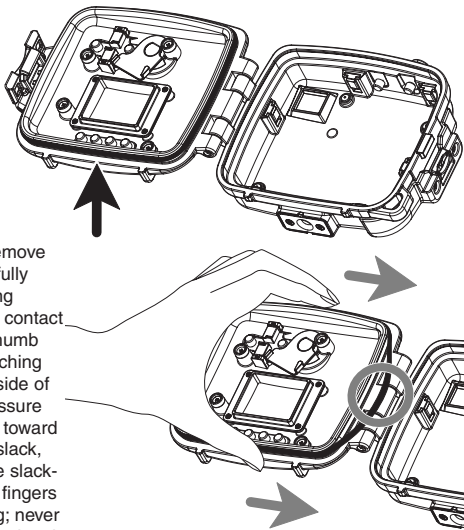
WARNING

- Do not disassemble or modify the case. This can result in flooding or malfunction.
- Store the case out of reach of children or infants. Be careful when around them not to harm them with the case or parts.
- Keep small parts that could be swallowed, such as the O ring, O-ring grease, and desiccant, away from infants. Contact a doctor immediately if an object is swallowed.
- Pay attention when recording underwater to avoid accidents.
- Do not wear the strap around the neck underwater. The strap may become entangled and cause injury.
- If the case leaks, discontinue use. Remove the camera from the case and the battery from the camera as soon as possible. If diving at a great depth, take the necessary precautions to avoid decompression sickness. Do not handle the camera and battery with wet hands. The continued use of a damaged product or part may cause injuries or fire.
- If the case leaked, open with care. The increased pressure inside the case will cause it to open with extreme force.
- If smoke is seen in the case, or the case becomes hot, discontinue use. Immediately remove the camera from the case and the battery from the camera taking care not to burn yourself as the camera and battery become hot with use. Do not handle the camera or battery with wet hands. The continued use of a damaged product or part may cause injuries or fire.
- Take the product to a Minolta Service Facility when repairs are required.

HANDLING PRECAUTIONS

HANDLING AND MAINTENANCE OF THE O RING

The O ring on the back door of the Marine Case provides an airtight water-resistant seal. Improper handling and maintenance of the O ring can cause flooding of the case. Read and follow the precautions carefully.



- Before every use, remove the O ring and carefully check the ring, O-ring channel, and O-ring contact surface. With your thumb and index finger touching the O ring on each side of the cover, apply pressure and slide the O ring toward the hinge to create slack, as shown. Grasp the slackened loop with your fingers to remove the O ring; never use a sharp or pointed tool.
- Visually examine the O ring, O-ring channel, and O-ring contact surface. Remove any foreign matter, dirt, sand, hair, etc. If the ring has any physical imperfections or damaged (rough edges, cuts, etc.), replace it.
- Lubricate the ring with the supplied O-ring grease after the examination. Dab a small amount of grease between your fingers and draw the ring through your fingers until it is evenly coated. Use the grease sparingly. Too much grease attracts foreign matter.
- Only use the supplied grease; the use of other types or brands of O-ring grease may damage the O ring and cause leakage.
- Do not bend or twist the ring when fitting it into the O-ring channel. It may prevent the ring from forming an adequate seal and cause leakage.
- Replace the O ring every year. O ring may have to be replaced more frequently, depending on maintenance, the amount of use, and storage conditions.
- You can purchase additional O rings and grease from your dealer or at a Minolta Service Facility. O-Ring Set (6776-751) includes a ring and a tube of grease.

OPERATION ENVIRONMENTS

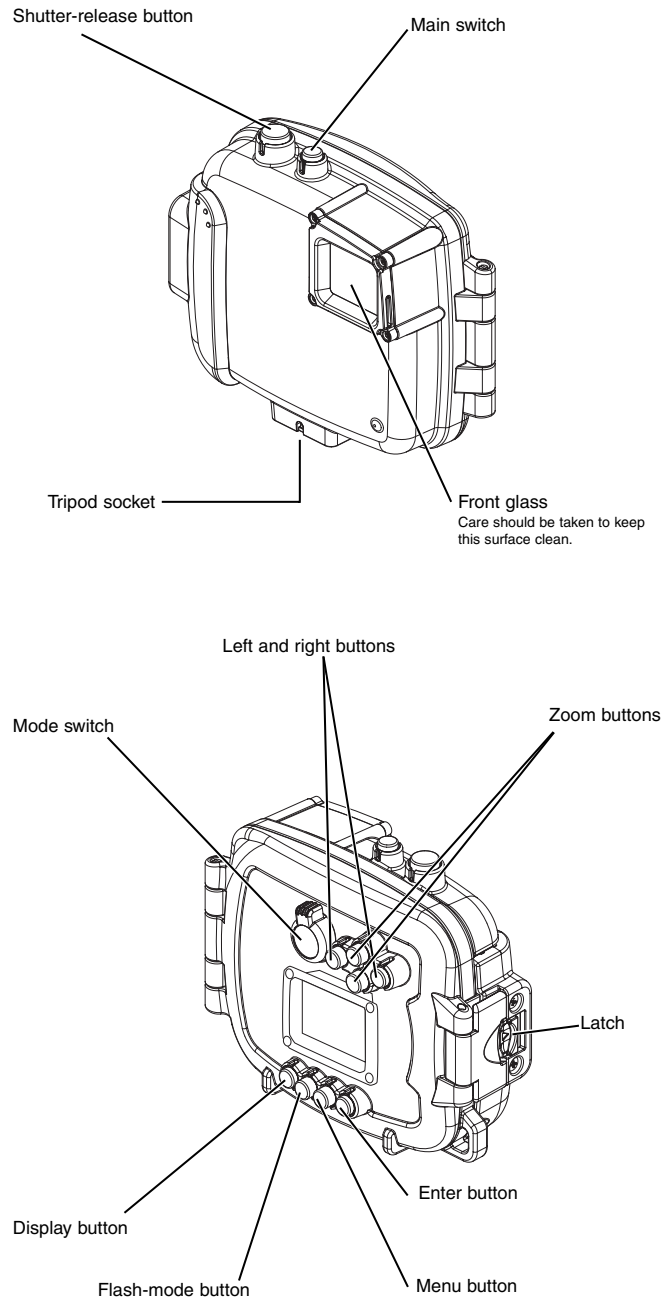
- Do not load or open the Marine Case in a wet, sandy, or dusty environment.
- Install the camera, memory card, or battery in a cool, dry environment to reduce the formation of condensation.
- The camera has been designed for use in temperatures from 0°C to 40°C (32°F to 104°F). When used in the case, do not use the camera continuously for more than 30 minutes in temperatures over 35°C (95°F).
- Do not expose the case to large waves or swells.
- Moving the case between hot and cold environment may cause condensation (water droplets) to form internally. Condensation may result in damage to the camera. Place the case in a sealed plastic bag to prevent condensation from forming. Allow the case and camera to come to room temperature before removing them from the bag. If condensation forms inside the case, remove the camera immediately, and wipe the condensation from both the camera and case with a soft, dry cloth. Place the camera and case in a dry place for several hours to allow all moisture to evaporate.
- Never leave the case exposed to extreme temperatures, such as in a car parked in the sun or a hot sandy beach. The case may be deformed resulting in leakage.
- Never leave the camera and case in a humid environment. It may cause damage.

- If sunscreen or tanning lotions come in contact with the case, immediately rinse them off with warm water. The chemicals in these products may cause damage.

OTHERS

- Do not subject the Marine Case to shock or impact.
- Do not jump or dive into the water while holding the case.
- The case has been constructed with an airtight seal. When packing it for air travel, unlock the latch or remove the O ring to alleviate pressure caused by atmospheric changes. Changes in air pressure can prevent the case from opening or cause permanent damage to the case's structural integrity.

NAMES OF PARTS



PREPARATIONS

When installing the camera, take care to keep dirt from entering the Marine Case and interfering with the watertight seal. To reduce condensation from forming on the inside of the case during use, load the camera or change the battery and memory card in a dry environment.

PREPARING THE CAMERA

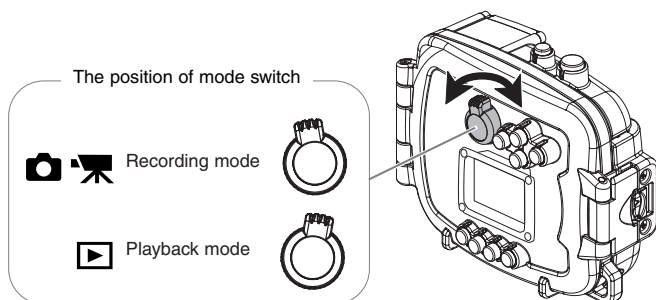
Refer to the camera's instruction manual for detailed instructions.

1. Remove the strap.
 - The camera strap may catch in the case's door when it is closed causing leaks.
2. Insert a fully-charged battery and memory card.
 - Using a new battery is recommended.
 - Confirm there is enough storage space on the memory card to record your images.

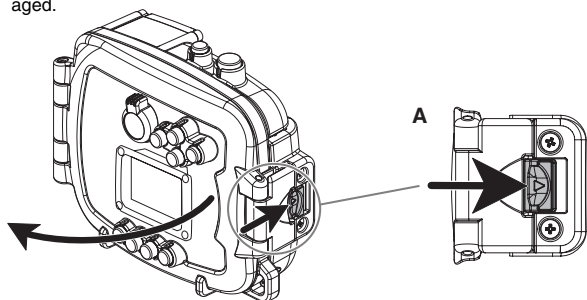
INSTALLING THE CAMERA

Inspect the O ring, O-ring channel, and O-ring contact surface (See HANDLING PRECAUTIONS). The case should be completely dry and free of dirt, dust, or other foreign matter.

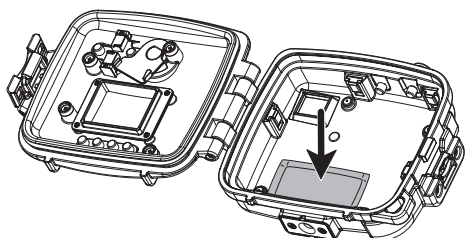
1. Turn the mode switch on the camera and case to the recording-mode position. The mode switch on the back of the case is turned to the left.
 - The mode switches must be aligned on the camera and Marine Case before the case is closed otherwise the switch may be damaged or the camera operation impaired.



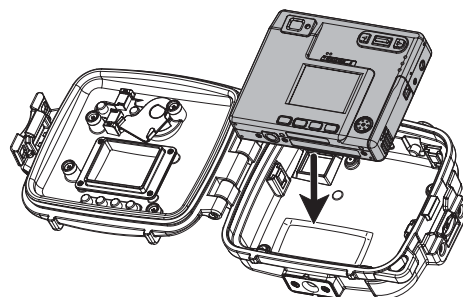
2. Push the lock in the direction of the arrow as shown (A). The latch will pop up unlocking the case.
 - Do not exert great force on the latch when opening. The latch may be damaged.



3. Place a packet of desiccant in the case as shown.
 - Desiccant helps prevent condensation. In cold environments or underwater, heat from the camera can cause condensation to form on the internal surfaces of the case. Condensation may prevent recording and can damage the camera.
 - The packet should be flat and even.
 - Do not place the desiccant so that it covers the camera flash.
 - The desiccant should be replaced after every use.
 - Packets of desiccant weighing 1g to 2g can be used. They can be purchased at a camera store or diving shop.

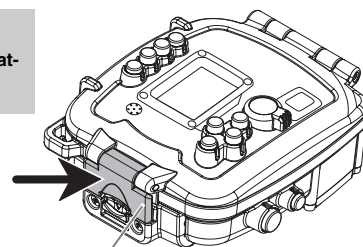


4. Place the camera in the case face down as shown.

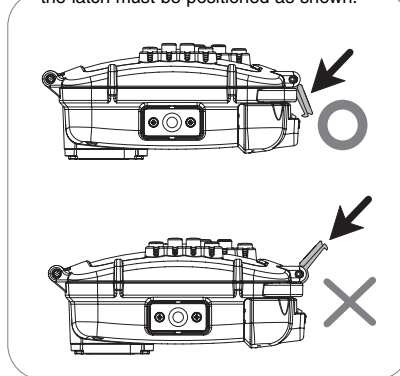


5. Close the back door and press down firmly to seal it. Push the latch into its locked position until it clicks.

Confirm nothing is caught in the door and the O ring is seated properly.

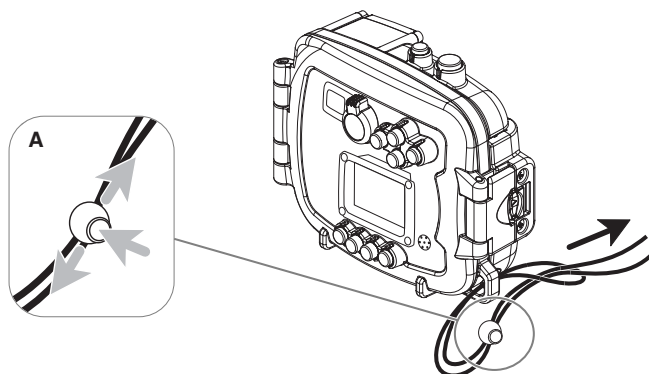


When closing the case, the latch must be positioned as shown.



6. Turn on the camera and confirm the operation of the case buttons and switches.

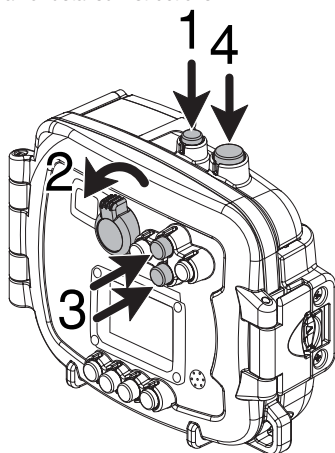
7. Attach the strap to the strap eyelet as shown.
 - The length of the strap can be adjusted (A).



RECORDING

Refer to the camera's instruction manual for detailed instructions.

1. Turn the camera on by pressing the main switch.
2. Turn the mode switch to the left to the recording position.
3. Press the zoom buttons to zoom the lens.
4. Compose the image with the monitor, then press the shutter-release button to take the picture.
 - The viewfinder cannot be used.
 - Take care not to cover the flash with your fingers or the strap.



ABOUT UNDERWATER PHOTOGRAPHY

- Underwater photography requires good lighting. Mid-day hours with the sun directly overhead are best.
- Because of the absorption properties of water, pictures may come out bluish. This effect increases with the diving depth and the subject distance.
- The minimum focus distance is approximately 35 cm (13.8 in). The focus icon on the LCD monitor indicates the focus status, see the camera's instruction manual.
- The flash range depends on the transparency of the water, diving depth, and several other factors.

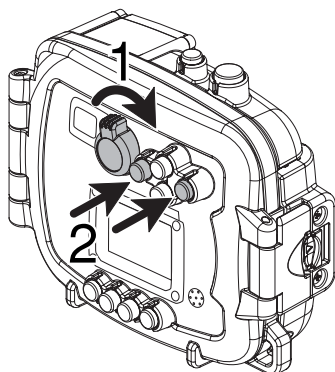
AUTO POWER OFF

To conserve battery power, the camera will shut down if an operation is not made within three minutes. To restore power, press the main switch. The length of the auto-power-off period can be changed. See the camera's instruction manual for further information.

PLAYBACK

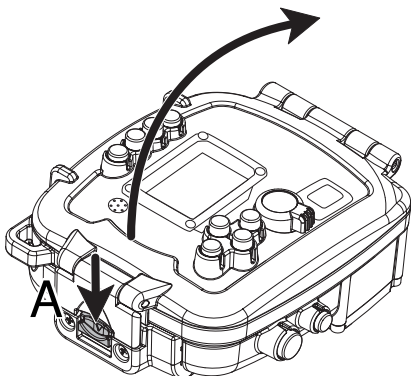
Refer to the camera's instruction manual for detailed instructions.

- 1 Turn the mode switch to the right to the playback position.
- 2 Use the left and right buttons to scroll through the recorded images on the memory card.



REMOVING THE CAMERA

1. Clean and dry the case.
2. Push the latch in the direction of the arrow as shown (A). The back door latch will pop up and the case will be unlocked.
3. Remove the camera from the case.
 - Be careful when opening the case not to drop the camera.



- Be careful not to allow drops of water from your hair, body, or diving suit to fall on the camera or enter the case.

- The camera temperature rises with extent periods of use. Allow the camera to cool before removing it from the case.

CARE

1. After every use, turn off and remove the camera from the case. With the case firmly closed, rinse it under clean smoothly-flowing water; never use a gushing or strong water flow. Soak the case in a basin of clean water and operate the switches and buttons to remove any residual contaminants. The case should be cleaned immediately after using it in salt or dirty water to prevent a build up of salt and corrosion. If the camera cannot be removed safely, turn the power off before rinsing the case.
 - Never use abrasives, petroleum or organic solvents, alcohol or paint thinner to clean the case; these products can damage the case.
 - Wipe the interior of the case with a soft, dry cloth. Never wash the interior with water.
2. Dry the case with a soft, dry cloth. Dry completely in a dry, well-ventilated area.
 - Do not leave the case in direct sunlight or use a hair dryer to dry the case. Heating may cause the case to deform or crack.
 - To clean the front glass, first blow away any dust or sand on the surface. Gently wipe the glass with a lens cleaning tissue or cloth.

STORAGE

- Do not store the camera in the case.
- Before storing, apply a light coating of grease to the O ring, and place it in the channel on the cover.
- Store the case in a cool, dry, well-ventilated area. Do not fasten the latch.
- Do not store the case in an area with naphthalene or mothballs.

LONG TERM STORAGE

- When the case is not used for longer than a month, remove the O ring from the back cover. Apply a light coating of grease to the O ring, and place it in a clean plastic bag.
- Store the O ring in a cool, dry, dark area.
- Store the O ring away from heavy or sharp objects; they can damage or deform the ring.

TECHNICAL SPECIFICATIONS

Maximum depth (underwater):	30m/ 98.4ft.
Weight:	Approx. 250g/ 8.8 oz. (without the camera)
Dimensions:	125.5 (W) x 99 (H) x 50.5 (D) mm 4.94 (W) x 3.9 (H) x 1.99 (D) in (excluding protrusions)

Specifications are based on Minolta's standard test method and the latest information available at the time of printing and are subject to change without notice.