

1 Safety Guide

1.1 Safety Warnings

The following instructions must be followed to ensure the user's safety with this system during daily operation. Carefully read the safety precautions before you use this system, and always ensure that this system is operated correctly.

Be sure to also read each manual and guide provided with accessories, and use them correctly.

IMPORTANT

- Keep this manual in a safe and readily accessible place for quick and easy future reference.
- Carefully read the safety precautions when you use this system, and always ensure that this system is operated correctly.

1.1.1 Safety Indication and Graphic Symbols

The following are explanations of matters that must be complied with in order to prevent injuries to the user and other persons as well as damage to property.

The following precautions are pictured to prevent injuries to the user and other persons as well as damage to property.

- The following categories and symbols are used depending on the extent of risk that might be incurred by mishandling the system.

Safety indication	Description
 WARNING	If this warning is ignored and the device is used incorrectly, there is a possibility of human death or serious injury.
 CAUTION	If this caution is ignored and the device is used incorrectly, there is a possibility of human injury or property damage only.

- The following are examples of the main graphic symbols used.

Graphic symbol	Description	Graphic symbol	Description	Graphic symbol	Description
	Caution		Prohibition		Instruction

1.1.2 Battery, Environment, and Conditions of Usage

WARNING

	- Do not use cables, batteries, battery chargers, AC/DC adapters or other accessories other than those included in the package or designated options. Using any products that were not included in the package, nor designated, might cause excessive heat generation, ignition, explosion, liquid leakage, or failure. Carefully read the contents of the instruction manuals of the battery and battery charger before use. - Do not attempt to forcibly attach or detach the battery from the camera body. Doing so might cause a fire, burn or personal injury. - The AC/DC adapter, battery and battery charger are dedicated parts for this system. Do not use them for other products.
	Be sure that the battery is properly aligned when the battery is attached to the camera. Failure to attach the battery correctly might cause the battery to ignite, burst, excessive heat generation, or leakage, which might result in a fire, burns, or personal injury.
	Be sure the interface cover and battery cover are properly secured, and ensure that there is no dirt on the seal of them. Any water penetration through the interface cover and the battery cover might cause heat generation, ignition, or failure.
	Do not use damaged cables. Also, ensure the cables have not been subjected to forcible bending, twisting, pulling, trampling, or pinching by a door, etc. Such conditions might cause a fire or electric shock.
	Do not use this camera in an environment that exceeds the operating temperature and humidity range. - Operating temperature and humidity range When the battery is connected: -4°F to 122°F (-20°C to 50°C) temperature; 30% to 80% (relative humidity with no condensation) When the AC/DC adapter is connected: 32°F to 104°F (0°C to 40°C) temperature; 30% to 80% (relative humidity with no condensation) Do not leave this camera in an environment that exceeds the storage temperature and humidity range. - Storage temperature and humidity range Camera alone: -4°F to 140°F (-20°C to 60°C) temperature; 30% to 80% (relative humidity with no condensation) Battery: -4°F to 122°F (-20°C to 50°C) temperature (recommended: -4°F to 77°F (-20°C to 25°C)); 30% to 80% (relative humidity with no condensation) AC/DC adapter: -4°F to 140°F (-20°C to 60°C) temperature; 30% to 80% (relative humidity with no condensation) Also avoid sudden temperature change, which might result in burn or personal injury due to a fire or equipment damage.

CAUTION

	If this system is used in a location where they are exposed to direct sunlight, the external metal components might get very hot and cause burns. Be sure to protect yourself by wearing gloves when touching the external metal parts that are at high temperature.
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1.1.3 Product Handling

WARNING

	Ensure that no foreign matter penetrates the connector. Such penetration might cause a short circuit which could result in a fire or system failure.
	Do not place the camera or battery in a fire and do not heat them. Also, do not bring fire such as candles, etc., close to the camera. This might cause the equipment to ignite, burst, or a fire.
	Do not wash the camera in water to avoid the possibility of electric shock.
	Do not dismantle or modify the camera. Such acts might cause a fire, electric shock, personal injury, or equipment failure.
	Do not use the camera while it is covered with a cloth or in a hard case. The excessive heat might cause a fire.
	Do not drop the camera, battery, and battery charger. Dropping them might cause a fire. Also, there is a possibility of personal injury.
	Observe the following rules when handling the power plug on the battery charger, as there is a possibility of fire or electric shock. ● Do not use starburst connections. ● Avoid inserting the plug into the socket if it is contaminated with foreign matter (e.g. dust). ● Do not remove or insert the plug with a wet hand. ● Do not remove the plug by pulling the cable.
	Do not point the optical window or the infrared lens towards the sun or a strong light source. Doing so may cause a fire or failure.

CAUTION

	Avoid touching the battery terminal or the area around it. Also, before touching the camera or battery, touch nearby metal to discharge static electricity on your body. Although rare, touching the battery might cause damage to the battery, or heating due to static electricity. If you notice heat generation, avoid burn injuries, and contact your dealer.
	Do not apply shock or force to the optical windows, or the infrared lens surface of the camera. Doing so might result in damage to the optical window or the infrared lens, or in personal injury. Keep the lens capped when it is not in use.
	When replacing the battery, make sure that it has sufficiently cooled after turning off the power. Touching the battery while still hot might cause burns.
	Dropping or toppling the camera could cause personal injury. Be sure to place the camera in the designated hard case when transporting. Avoid carrying the camera by holding its handle while it is attached to a tripod. The tripod could become a tripping hazard and cause personal injury.
	When using the camera attached to the tripod, securely fix the tripod so that it does not topple. If the tripod topples, for example due to a gust of wind, it could cause failure of the camera or injury to the operator.
	Be careful when carrying the camera in the hard case. Dropping it on a foot might result in injury.
	When placing the camera on a table, put the rubber foot down for stability. Placing the camera sideways, upside down, or with the infrared lens down might cause the camera to topple over, resulting in failure of the camera or personal injury.

1.1.4 Defects of the Product

WARNING

	Avoid using damaged, deformed, or leaky batteries. Using such batteries might cause a burst, heat generation, ignition, or failure.
	Stop charging the battery if it is not fully charged within the specified charging time. Using such batteries might cause a burst, ignition, liquid leakage, or excessive heat generation.
	Do not use the battery if you observe unusual odor, heat, discoloration, or deformation. Using such batteries might cause a fire, burn or personal injury.
	When you experience any of the following conditions, immediately turn off the camera, remove the battery and AC/DC adapter, and contact your dealer. Continued use in such conditions might cause a fire or electric shock. Do not attempt repairs to any of the following defects as they may cause a risk to the user: ● There is smoke, abnormal odor, or noise coming from the camera. ● The camera and expansion devices are damaged. ● No image appears despite correctly following the procedures.

 CAUTION



Do not use the product if a crack, abnormal noise, or excessive heat is observed to avoid personal injury or burn. In this case, immediately turn off the camera, remove the battery and AC/DC adapter, and contact your dealer.



If the battery fluid contacts your eyes, do not rub your eyes. To avoid the risk of loss of vision, immediately rinse your eyes thoroughly with tap or other clean water, and immediately seek medical treatment.



If the battery fluid adheres to the skin or clothes, immediately wash the affected area with tap or other clean water, to avoid skin damage.

1.2 Precaution for Handling

A failure, unauthorized repair, or mishandling of this camera system might cause data loss or damage. In such cases, Konica Minolta will assume no responsibility for the restoration of the corrupted or lost data, nor any damage or lost earnings resulting from data corruption or loss.

1.2.1 General Precautions when Using the Camera

- This camera is a precision instrument. Use with care to avoid impact.
- Be sure the infrared lens surface and the optical window are kept clean before starting the operation of the camera. If there is fogging or smudges on the lens, clean the lens with a soft cloth.
- Although the camera is dustproof and waterproof (IP54), do not use it in the rain as it may cause failure.
- The camera and any equipment other than the battery that is attached to the camera are not intended for outdoor use.
Use the equipment other than the camera and the battery removed from the camera indoors.
- Do not use the camera near high-voltage electrical power lines or any source that generates magnetism, which could result in failure, malfunction, or damage to the camera device.
- Avoid using or storing the camera in an atmosphere of corrosive gas salt mist. Doing so might cause deformation, or failure of the camera.
- Do not place the camera under a sterilization lamp. This might cause deformation, discoloration, or failure of the camera.
- Do not store or leave this system in a car. Doing so may cause failure due to high temperatures.
- Do not apply benzene, thinner or other organic solvents to the camera. Also avoid using organic solvents to clean the camera. There is a possibility of damage to the lens coating, surface finish and paint materials on the camera.
- If blurring occurs during shooting, inspection accuracy may be reduced. For high-precision inspections, attach the tripod to the camera to hold it in place.
- Handle the camera gently and avoid bumping into objects. This might negatively impact the gas inspection accuracy.
- Check the surroundings and pay attention to safety whenever carrying the camera or tripod. Otherwise, it might result in personal injury or camera damage.
- Regularly clean the camera to maintain its performance.
 - Clean the optical window and infrared lens surface carefully with a clean, soft cloth. Be careful not to scratch the window or lens.
 - When the camera becomes dusty, blow the dust away with a blower, and then wipe the camera with a damp cloth.
 - Regularly clean the rubber seals of the battery cover and interface cover to prevent hair, dust, or powder from getting caught in them.
- The LCD screen of the camera is not designed as a touch panel. Do not press too hard as this may cause failure.
- Plug in the USB cable with the correct orientation. Otherwise, it might damage the camera.
- Do not disconnect the USB cable when the camera and PC are connected via USB for data transfer. Doing so may corrupt data.

- Turn off the camera before inserting or removing the SD card. Removing or inserting the SD card while the camera is running may result in data corruption.
- Be sure to change the initial Wi-Fi password. Keep the changed password with caution.
- GPS signals may not be received if you are inside a building or there are obstacles in the surrounding area. If you need to receive GPS signals, move to an open outdoor area. If you move to an open outdoor area and still cannot receive the GPS signals after 10 minutes or more, reboot the camera.
- This camera may make a motor noise for a while after turning off the power, but this does not affect product quality.

1.3 Export Regulation

The products comprising this system contain goods, technology, or software that are subject to the Foreign Exchange and Foreign Trade Act of Japan and its related laws and regulations, and the Export Administration Regulations (EAR) of the U.S. Department of Commerce. Comply with these laws and regulations when exporting the products comprising this system or providing them to non-residents.

The use of this system in the design, development, production and/or use of nuclear, chemical or biological weapons or missiles is strongly prohibited.

1.4 Caution on Transport

THIS PRODUCT IS A PRECISION INSTRUMENT. WHEN YOU NEED TO TRANSPORT THIS PRODUCT TO ANY LOCATION, USE PACKING MATERIALS SPECIFIED BY KONICA MINOLTA IN ORDER TO MINIMIZE VIBRATIONS AND SHOCKS. CONTACT YOUR DEALER FOR FURTHER INFORMATION REGARDING OUR SPECIFIED PACKING MATERIALS.

1.5 Camera that is No Longer Needed

Comply with applicable laws and regulations when disposing of the camera by yourself.

1.6 Disposing of the Product



This symbol means: Do not dispose of this product together with your household waste! Please refer to the information of your local community or contact our dealers regarding the proper handling of end-of-life electric and electronic equipment. Recycling of this product will help to conserve natural resources and prevent potential negative consequences for the environment and human health caused by inappropriate waste handling.

2 Other Matters

2.1 Intellectual Property Rights

- KONICA MINOLTA and KONICA MINOLTA logos are the trademark and registered trademark of Konica Minolta, Inc.
- All intellectual property rights on software installed in this system belong to Konica Minolta, Inc.
- Reproduction, analysis, modification, or incorporation into another system of a part or all of the software in this system for use is prohibited.
- This system compresses video using H.264 under a license agreement with MPEG LA, LCC.
If you wish to use the output data of this system for commercial purposes or to refer to the latest information regarding the license, check the MPEG LA, LCC website.
- QR Code is a registered trademark of DENSO WAVE Incorporated.
- Wi-Fi is a registered trademark of Wi-Fi Alliance.
Wi-Fi CERTIFIED logo is a certification mark of Wi-Fi Alliance.
- Other product names are generally the trademarks or registered trademarks of the respective companies.



2.2 Laws and Regulations

2.2.1 Regulation Notices (Camera)

The Gas Camera System: GMP02 (Gas Camera: GMPC02) includes approved Wireless Module, MODEL: WPEA-251ACNI(BT)

■ SPECIFICATIONS:

2.4 GHz frequency range: 2.412 GHz to 2.484 GHz (Based on radio Law of each country)
Maximum radio-frequency power transmitted in the frequency band (EIRP):
Max. 20 dBm for 2.4GHz

■ For U.S.A. users

FCC: Declaration of Conformity
Product Type: Gas Camera System
Product: GMP02

<https://www.konicaminolta.com/us-en/gas/>

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful in-terference in which case the user will be required to correct the interference at his own expense.

This device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

WARNING

- The design and production of this unit conform to FCC regulations, and any changes or modifications must be registered with the FCC and are subject to FCC control. Any changes made by the purchaser or user without first contacting the manufacturer will be subject to penalty under FCC regulations.
- This device must be used with a shielded interface cable. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under FCC rules.

CAUTION

To maintain compliance with FCC's RF exposures, use only the supplied antenna.

Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

This device complies with FCC part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

"Contains FCC ID: 2A4C6-GMP02"

■ **For Canadian users**

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes:

- (1) il ne doit pas produire de brouillage, et
- (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

"Contains IC: 1048B-GMP02"

■ **For European users**

We hereby declare that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The latest version of the Declaration of Conformity is available at our official website.

<https://www.konicaminolta.com/us-en/gas/download/download.html>

Note: 5 GHz may not be available.

This radio equipment is restricted to indoor use only. Outdoor use is prohibited.

This restriction applies to all the countries listed in the table below.



AT	BE	BG	CH	CY	CZ	DE	DK	EE
EL	ES	FI	FR	HR	HU	IE	IS	IT
LI	LT	LU	LV	MT	NL	NO	PL	PT
RO	SE	SI	SK	TR				

■ For users in countries not subject to class B regulations

 WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This device must be used with a shielded interface cable. The use of non-shielded cables is likely to result in interference with radio communications and is prohibited under CISPR rules and local rules.

2.2.2 Air Transportation of Lithium-ion Batteries

When lithium-ion batteries need to be transported, it is necessary to satisfy conditions such as "IATA Aviation Dangerous Goods Regulations". Also, the regulations on the air transportation of lithium-ion batteries are subject to change. Carry out the transportation in accordance with the latest transportation regulations.