

Konica Minolta's industrial instruments

Safety Precautions



KONICA MINOLTA

Safety Symbols

The following symbols are used in this manual to prevent accidents which may occur as result of incorrect use of the instrument.



Denotes a sentence regarding a safety warning or note.
Read the sentence carefully to ensure safe and correct use.



Denotes a prohibited operation.
The operation must never be performed.



Denotes an instruction.
The instruction must be strictly adhered to.



Denotes a prohibited operation.
Never disassemble the instrument.



Denotes an instruction.
Disconnect the AC adapter from the AC outlet.














Denotes an instruction.
Connect the grounding terminal as instructed.






















Denotes a sentence regarding safety precaution for laser.
Read the sentence carefully to ensure safe and correct use.

Safety Precautions

To ensure correct use of Konica Minolta's industrial instruments, read the following points carefully and adhere to them. For appropriate points for your instrument, refer to the table at the end of this book. After you have read this book and the manual for your instrument, keep them in a safe place where they can be referred to anytime a question arises.

 WARNING		(Failure to adhere to the following points may result in death or serious injury.)	
W.B1	 <p>Do not use the instrument in places where flammable or combustible gases (gasoline etc.) are present. Doing so may cause a fire.</p>	W.C5	 <p>Do not forcibly bend, twist or pull the power cord. Do not place heavy objects on, or damage or modify the power cord. Doing so may damage the power cord and cause fire or electric shock.</p>
W.C1	 <p>Always use the supplied power cord, and connect it to an AC outlet of the rated voltage and frequency. If an AC adapter other than those specified by KONICA MINOLTA is used, it may result in damage to the instrument or AC adapter, fire or electric shock.</p>	W.C6	 <p>The instrument should not be operated if it is damaged, or if smoke or odd smells occur. Doing so may result in a fire. In such situations, turn the power OFF immediately, disconnect the power cord from the AC outlet, and contact the nearest KONICA MINOLTA-authorized service facility.</p>
W.C2	 <p>Do not disassemble or modify the instrument. Doing so may cause a fire or electric shock.</p>	W.C7	 <p>Always disconnect the power cord by holding the power plug. Pulling the power cord itself may damage it and cause fire or electric shock.</p>
W.C3	 <p>Take special care not to allow liquid or metal objects to enter the instrument. Doing so may cause a fire or electric shock. Should liquid or metal objects enter the instrument, turn the power OFF immediately, disconnect the power cord from the AC outlet (or remove the batteries if they are being used), and contact the nearest KONICA MINOLTA-authorized service facility.</p>	W.C8	 <p>Do not insert or disconnect the AC plug with wet hands. Doing so may cause electric shock.</p>
W.C4	 <p>Do not use the instrument with dirt accumulated inside the air vents. Doing so may cause a fire. Contact the nearest KONICA MINOLTA-authorized service facility regarding routine service checks.</p>	W.C9	 <p>If the instrument will not be used for a long time, disconnect the power cord from the AC outlet. Accumulated dirt or water on the prongs of the power cord plug may cause a fire and should be removed.</p>












W.C10	 <p>Insert the power plug fully and securely. Incomplete insertion may cause fire or electric shock.</p>	W.D5	 <p>The instrument should not be operated if it is damaged or the AC adapter is damaged, or if smoke or odd smells occur. Doing so may result in a fire. In such situations, turn the power OFF immediately, disconnect the AC adapter from the AC outlet (or remove the batteries if they are being used) and contact the nearest KONICA MINOLTA-authorized service facility.</p>
W.D1	 <p>Always use the AC adapter supplied as a standard accessory or the optional AC adapter, and connect it to an AC outlet of the rated voltage and frequency. If an AC adapter other than those specified by KONICA MINOLTA is used, it may result in damage to the instrument or AC adapter, fire or electric shock.</p>	W.D6	 <p>Take special care not to allow liquid or metal objects to enter the instrument. Doing so may cause a fire or electric shock. Should liquid or metal objects enter the instrument, turn the power OFF immediately, disconnect the AC adapter from the AC outlet (or remove the batteries if they are being used), and contact the nearest KONICA MINOLTA-authorized service facility.</p>
W.D2	 <p>If the instrument will not be used for a long time, disconnect the AC adapter from the AC outlet. Accumulated dirt or water on the prongs of the AC adapter's plug may cause a fire and should be removed.</p>	W.D7	 <p>Do not forcibly bend, twist or pull the power cord. Do not place heavy objects on, or damage or modify the power cord. Doing so may damage the power cord and cause fire or electric shock.</p>
W.D3	 <p>Do not insert or disconnect the AC adapter with wet hands. Doing so may cause electric shock.</p>	W.D8	 <p>Always disconnect the power cord by holding the power plug. Pulling the power cord itself may damage it and cause fire or electric shock. Do not insert or disconnect the power cord plug with wet hands. Doing so may cause electric shock.</p>
W.D4	 <p>Do not disassemble or modify the instrument or the AC adapter. Doing so may cause a fire or electric shock.</p>	W.D9	 <p>Do not use the instrument with dirt accumulated inside the air vents. Doing so may cause a fire. Contact the nearest KONICA MINOLTA-authorized service facility regarding routine service checks.</p>

W.D10	 <p>Insert the power plug fully and securely. Incomplete insertion may cause fire or electric shock.</p>	W.E7	 <p>Do not touch or hold the batteries with wet hands. Doing so may cause electric shock or failure.</p>
W.E1	 <p>Do not dispose of batteries in fire, short their terminals, apply heat to them, or disassemble them. Also, do not recharge them (if they are not chargeable). Doing so may cause explosion or heat generation, resulting in fire or injury.</p>	W.H1	 <p>Do not place a lens, mirror or optical element in the passage of the laser beam. Doing so may converge the laser beam, resulting in damage to your eyes, burns or fire. To prevent the above accidents, make sure that a wall or similar which can block the laser beam is located behind the object.</p>
W.E2	 <p>Do not disassemble or modify the instrument. Doing so may cause a fire or electric shock.</p>	W.H2	 <p>Never stare into the laser emitting window. Doing so may damage your eyes.</p>
W.E3	 <p>Should battery fluid leak and get in your eyes, do not scratch your eyes, but wash them in clean water and immediately seek medical advice. If battery fluid spills onto your hands or clothing wash it away with water. Discontinue use of products in which battery fluid leakage has occurred.</p>	W.J1	 <p>Do not look at sun or intense light through the finder of this instrument. This may result in loss of sight.</p>
W.E6	 <p>Dispose of batteries used in the instrument correctly. Disposing of batteries incorrectly may result in heat generation or cause batteries to catch fire due to short circuiting. This may result in a fire, injury, or burns. Disposal methods for lithium batteries may vary according to where you live. Dispose of batteries in accordance with local regulations or through a registered waste disposal agency.</p>		



CAUTION

(Failure to adhere to the following points may result in injury or damage to the instrument or other property.)

C.21	 <p>Always connect the power plug to an outlet with a protective earth terminal. Be sure to also connect peripheral equipment (including controlling computers) to an outlet with protective earth terminals. Not doing so may result in electric shock due to short circuit.</p>	C.101	 <p>Do not move while looking inside finder since this would fall or injure user.</p>
C.41	 <p>Make sure that the AC outlet is located near the instrument and that the power cord's plug can be connected to and disconnected from the AC outlet easily.</p>	C.131	 <p>Take special care in handling the optional closeup lens. The closeup lens may break resulting in injury.</p>
C.51	 <p>Do not use batteries other than those specified by KONICA MINOLTA. Never mix old and new batteries or batteries of different types. When installing batteries in the instrument, ensure that they are correctly orientated according to the (+) and (-) marks. Failure to adhere to these instructions may cause batteries to explode or leak electrolyte, resulting in fire, injury or air pollution.</p>	C.132	 <p>Take special care in handling the optional ND filter or closeup lens. The ND filter or closeup lens may break resulting in injury.</p>
C.71	 <p>Do not place the instrument on an unstable or sloping surface. Doing so may result in its dropping or overturning, causing injury. Be careful not to drop the instrument when carrying it.</p>	C.141	 <p>Do not block the vent. Doing so may cause a fire.</p>
C.81	 <p>Take care not to get your hands caught in parts of the instrument that open and close. Doing so may result in injury.</p>	C.151	 <p>When cleaning the instrument, unplug the power plug from the outlet. Not doing so may cause electric shock.</p>
C.91	 <p>Do not perform measurement with the specimen measuring port directed towards your face. Doing so may damage your eyes.</p>		

No.	SPECTRO-PHOTOMETER CM-3700A CM-3600A CM-3610A CM-5 CHROMA METER CR-5	SPECTRO-PHOTOMETER CM-3630	SPECTRO-PHOTOMETER CM-2600d/ 2500d CM-2500c CM-2300d	SPECTRO-PHOTOMETER CM-3220d	SPECTRO-PHOTOMETER CM-512m3A	SPECTRO-PHOTOMETER CM-700d/ 600d CHROMA METER CR-400/ 410	COLOR READER CR-10 CR-11 CR-14 BAKING METER BC-10	CHLOROPHYLL- METER SPAD-502Plus	SPECTRO-DENSITOMETER FD-7 FD-5	2D Color Analyzer CA-2500	Display Color Analyzer CA-310
W.B1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
W.C1											<input type="radio"/>
W.C2											<input type="radio"/>
W.C3											<input type="radio"/>
W.C4											<input type="radio"/>
W.C5											<input type="radio"/>
W.C6											<input type="radio"/>
W.C7											<input type="radio"/>
W.C8											<input type="radio"/>
W.C9											<input type="radio"/>
W.C10											<input type="radio"/>
W.D1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
W.D2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
W.D3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
W.D4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
W.D5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
W.D6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	
W.D7	<input type="radio"/>									<input type="radio"/>	
W.D8	<input type="radio"/>									<input type="radio"/>	
W.D9										<input type="radio"/>	
W.D10	<input type="radio"/>								<input type="radio"/>	<input type="radio"/>	
W.E1			<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
W.E2							<input type="radio"/>				
W.E3					<input type="radio"/>				<input type="radio"/>		
W.E6			<input type="radio"/>		<input type="radio"/>		<input type="radio"/>				
W.E7											
W.H1									<input type="radio"/>		
W.H2									<input type="radio"/>		
W.J1											
C.21											<input type="radio"/>
C.41	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C.51			<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
C.71	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	<input type="radio"/>
C.81	<input type="radio"/>	<input type="radio"/>							<input type="radio"/>		
C.91	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>		
C.101											
C.131											
C.132											
C.141									<input type="radio"/>		<input type="radio"/>
C.151	<input type="radio"/>								<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

No.	SPECTRO-RADIOMETER CS-2000/ CS-2000A	CHROMA METER CS-200	CHROMA METER CS-100A	ILLUMINANCE SPECTROPHOTOMETER CL-500A	CHROMA METER CL-200A	ILLUMINANCE METER T-10A/T-10MA	LUMINANCE METER LS-100/110
W.B1	○	○	○	○	○	○	○
W.C1							
W.C2							
W.C3							
W.C4							
W.C5							
W.C6							
W.C7							
W.C8							
W.C9							
W.C10							
W.D1	○	○		○	○	○	
W.D2	○	○		○	○	○	
W.D3	○	○		○		○	
W.D4	○	○		○		○	
W.D5	○	○		○	○	○	
W.D6	○	○	○	○	○	○	○
W.D7	○	○				○	
W.D8	○	○				○	
W.D9							
W.D10				○		○	
W.E1		○	○		○	○	○
W.E2			○		○		
W.E3		○		○	○	○	
W.E6		○			○	○	
W.E7						○	
W.H1							
W.H2							
W.J1	○	○	○				○
C.21							
C.41	○	○		○	○	○	
C.51		○	○		○	○	○
C.71	○	○					
C.81							
C.91							
C.101	○	○	○				○
C.131		○					
C.132	○						
C.141							
C.151				○		○	



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