






SAFETY PRECAUTIONS

Before you use MECHA, please read all operating instructions and safety notes. Save them for future reference. Make sure you understand the meaning of the following icons.

 WARNING	indicates that death or serious injury can result if the information is ignored.
 CAUTION	indicates that personal injury or material damage can result if the information is ignored.

	indicates this information requires attention ("Important").
	indicates an action that is prohibited ("Prohibited").
	indicates an action that must be performed ("Required").

WARNING: RISK OF FIRE OR ELECTRICAL SHOCK

- Use only a reputable USB power supply with 5V 1.5A (or above) rating. DO NOT use other voltages. The use of other power sources can cause a fire. Use only the supplied USB cable.
- DO NOT change, heat or unduly twist or pull the connection cord (to disconnect from product) and do not place heavy objects on the connection cord. These actions could damage the cord and cause a fire or electric shock.
- DO NOT use in the presence of flammable objects, explosive gases, or dust.
- NEVER push objects of any kind into MECHA through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. NEVER spill liquid of any kind on MECHA. Protect it from both dirt and dust. If liquid or foreign objects get inside MECHA, turn it off and disconnect all cables. Drain out the liquid and

wrap it with dry cloth or paper towel to absorb the liquid as quickly as possible. Continued use of MECHA can cause a fire or electric shock.

- DO NOT disassemble or modify; there are no user serviceable parts inside.
- Should the case break open as the result of a fall or other accident, DO NOT touch the exposed parts.
- During a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the charger and disconnect the system. This will prevent damage to the product due to lightning and power-line surges.
- MECHA Controller C1 contains a built-in lithium-ion battery. Mechanical damage can lead to internal short circuiting and battery overheating. In the event of visible damage to, and/or deformation of the casing or extreme heat development, the product must immediately be turned off, removed from the system and disposed of in an appropriate manner. If the battery leaks and fluid gets in contact with your eyes, skin or clothing, flush the affected area with clean water without rubbing, and seek medical attention or call an emergency number right away.
- DO NOT heat above 60 °C (140 °F) or incinerate.
- DO NOT leave MECHA in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.
- In the event of fire, DO NOT extinguish with water. Use only extinguishers of fire classification D (dry powder), or smother flames with dry sand or woolen or cotton blankets. NEVER touch the burning product with unprotected hands. Employ protective gloves or a shovel or tongs, and, if possible, place MECHA in the open air as soon as possible.

WARNING: DAMAGE REQUIRING SERVICE

Turn off MECHA and disconnect all cables and refer servicing to qualified service personnel under the following conditions:

- When the cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into MECHA.
- If MECHA has been exposed to rain or water.
- If MECHA has been dropped or the casing has been damaged.
- If MECHA does not operate normally following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- When the product exhibits a distinct change in performance — this indicates a need for service.

Continued use of MECHA when it is emitting smoke, is emitting any unusual odor, or is in any other abnormal state can cause a fire or electric shock. Contact your dealer.

CAUTION

- DO NOT place MECHA on an unstable surface. This can cause MECHA to fall or tip over and cause injury.
- DO NOT move MECHA while the cables are still connected, unless the connected parts move with MECHA. Be careful of cable entanglement. Use "Rewind" function if a fixed cable is attached to the rotator.

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- Keep out of the reach of small children. MECHA could cause injury in the hands of a child. Keep spare parts out of the reach of small children. They are small and can be swallowed by children.

- Except at nearly freezing temperature, DO NOT cover or wrap MECHA or the charger in a cloth or blanket. This can cause heat to build up and distort the casing or cause a fire.

- Unplug charger or other cable before cleaning. DO NOT use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

- MECHA does not have a weather sealing. It contains lots of metal and is prone to condensation in hot/cold transitions. Following transport from a cold to a warm environment, water vapor will condense on to the cold surfaces. Too much condensation can cause short circuit and damage the product. To prevent possible damage, keep MECHA in an insulating bag to slow down the hot/cold transitions. Alternatively, place MECHA in a plastic bag with air squeezed out to warm up faster. The vapor will condense on to the cold plastic bag but can't get inside the bag. In case of severe condensation, wrap MECHA with dry cloth. Let it warm up. Later, put it in a sealed container filled with desiccant for at least 24 hours.

- MECHA may interfere with hospital or aviation equipment. Consult with hospital or airline staff before using it in a hospital or on an aircraft.

CAUTION: DAMAGE BY STRESS AND STRAIN

- To protect the material from strain, observe the load rating of MECHA rotator. To prevent overload responses, DO NOT leave it running unwatched. Be careful of cable entanglement.

- Gear assembly in MECHA rotator is designed to support the payload only. Average people can exert a turning



torque big enough to damage the gear.

- DO NOT turn MECHA rotator by hand when the motor is powered on.

- Power off MECHA during mounting or dismounting to tripod. The motor can spin freely in the power-off state, little force will concentrate on the gear, except otherwise noticed in special designs.

- DO NOT turn MECHA faster than 3 RPM by hand even in power off state. The motor will act as a generator, whose voltage generated is proportional to the motor RPM. With large speed ratio, the voltage generated can be high enough to damage the motor driver.



CAUTION: NOTES ON LITHIUM-ION BATTERY

- The battery is partially charged at shipment. The battery gradually loses its charge when not in use. Charge the battery one or two days before use.

- Battery capacity decreases at low temperatures; a depleted battery may not function at all when cold. As a remedy, use a 5V external battery which are kept in warm place. Cover or wrap MECHA in an insulating blanket. Heat is generated when battery is discharged and when the motor is turned on. Check from time to time that MECHA is not too hot to touch. DO NOT place the battery or MECHA in direct contact with hand warmers or other heating devices.

- Charging times will increase at ambient temperatures below 10 °C (50 °F) or above 35 °C (95 °F). DO NOT attempt to charge the battery at temperatures above 40 °C (104 °F); at temperatures below 0 °C (32 °F), the battery will not charge.

- The battery may be warm to the touch immediately after charging or use. This is normal.

- At normal temperatures, the battery can be recharged about 300 times. A noticeable decrease in the length of time the battery will hold a charge indicates that it has reached the end of its service life and should be replaced by a qualified service personnel.

- Store the product at dry and cool locations (15-30°C / 59-86°F, rel. humidity 40-60%, not condensing).

- Storage for longer periods (>2 weeks) at temperatures >35°C (95°F) must be avoided. Storage at >40°C (105°F) is not permissible.

- To avoid damage to the battery through total discharge, never store with a fully empty battery. In the case of storage for longer periods (>3 months), do not store with a fully charged battery, but rather, with approx. 40-60% capacity remaining. After six months at the latest, check the charge status of the battery and, if needed, recharge.

DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN PRIVATE HOUSEHOLDS

MECHA shall not be treated as household waste. Instead it should be taken to an applicable collection point for the recycling of electrical and electronic equipment. By ensuring MECHA is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate waste handling of MECHA.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

