

# How to Use

## Before Use [Make sure to read]

### CAUTION

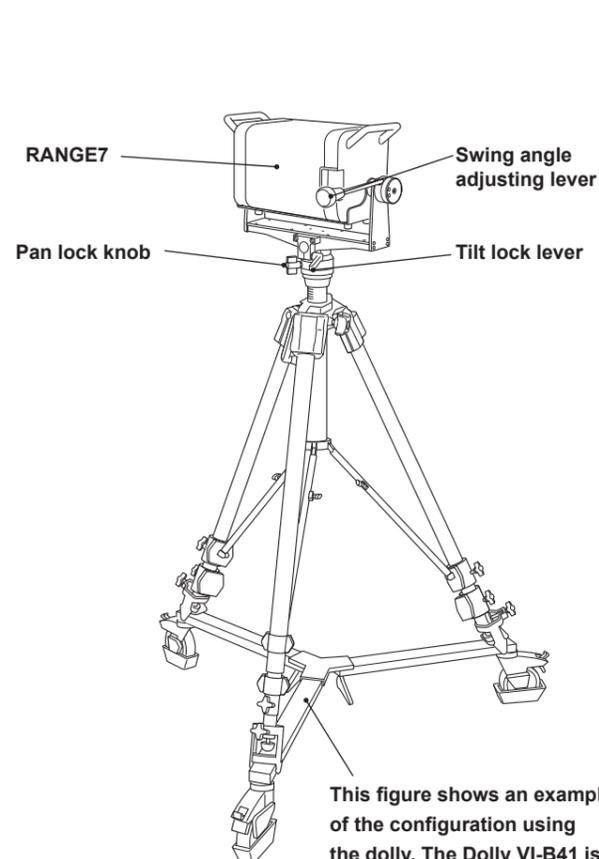
- Before using the dolly, check each of the connecting part for looseness. If any part is loose, re-tighten it securely.
- If any parts have problems such as a crack or large bend, do not use them. Please contact a KONICA MINOLTA-authorized service facility.
- Use the dolly on a level, flat, firm floor. Using this stand set on an uneven or sloped floor may make this stand set unstable.
- Before moving the tripod, be sure to dismount the RANGE7 unit. If the tripod is moved with RANGE7 mounted, it may overturn, causing injury or damage to the equipment.
- Do not lean against the tripod or platform.
- If any abnormality is found (any movable part cannot smoothly work), contact a KONICA MINOLTA-authorized service facility.
- If any part of the dolly is lost or damaged, do not use a commercially available part as a substitute. Please contact a KONICA MINOLTA-authorized service facility. Using a commercially available part as a substitute may result in damage to the equipment or injury due to insufficient strength.

## Adjusting the RANGE7 Position [How to Operate the Tripod Platform]

The platform enables horizontal, vertical, and swing adjustment. Operate each lever to adjust the RANGE7 position.

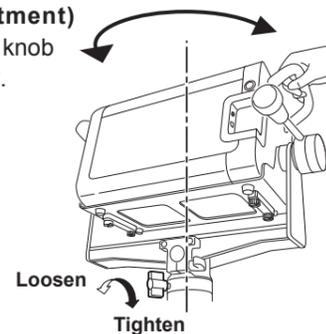
### Note

- Before changing the RANGE 7 position, check that there is no one nor any materials around the platform that may get hit.
- Excessively tightening the pan lock knob, tilt lock lever and swing angle adjusting lever result in damage to the equipment.
- Be careful not to get fingers caught in the tilt section of the platform. Keep fingers away from this area.
- When changing the tilt direction of the RANGE7, be sure to lock the pan and swing positions first. In addition, when changing the pan or swing direction, lock the tilt position first.

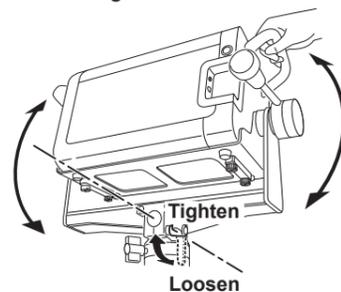


This figure shows an example of the configuration using the dolly. The Dolly VI-B41 is optionally available.

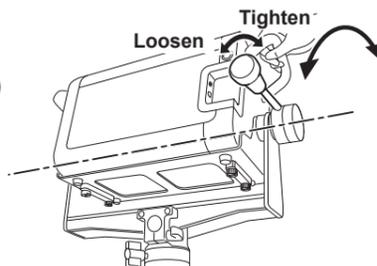
**Pan lock knob (Horizontal adjustment)**  
Loosen the pan lock knob to adjust horizontally.



**Tilt lock lever (Vertical adjustment)**  
Loosen the tilt lock lever to adjust vertically.



**Swing angle adjusting lever (Swing adjustment)**  
Loosen the swing angle adjusting lever to adjust the swing direction.



KONICA MINOLTA

# Tripod Set RA-121/ Tripod Platform Set RA-151 Instruction Manual

The RA-121 tripod set is used for non-contact 3D digitizer RANGE7.

The tripod platform set RA-151 is used to mount the tripod platform on an existing tripod.

The RANGE7 can be mounted to this tripod set.

### CAUTIONS DURING ASSEMBLY

- The tripod set RA-121 includes heavy components. Be careful not to catch your fingers between the parts or injure your toes by dropping such parts.
- Do not take a forced posture during assembly.
- Perform assembly in a sufficiently large space. Leaning parts against a wall, etc. may result in such parts falling over.

## Composition of Tripod Set RA-121

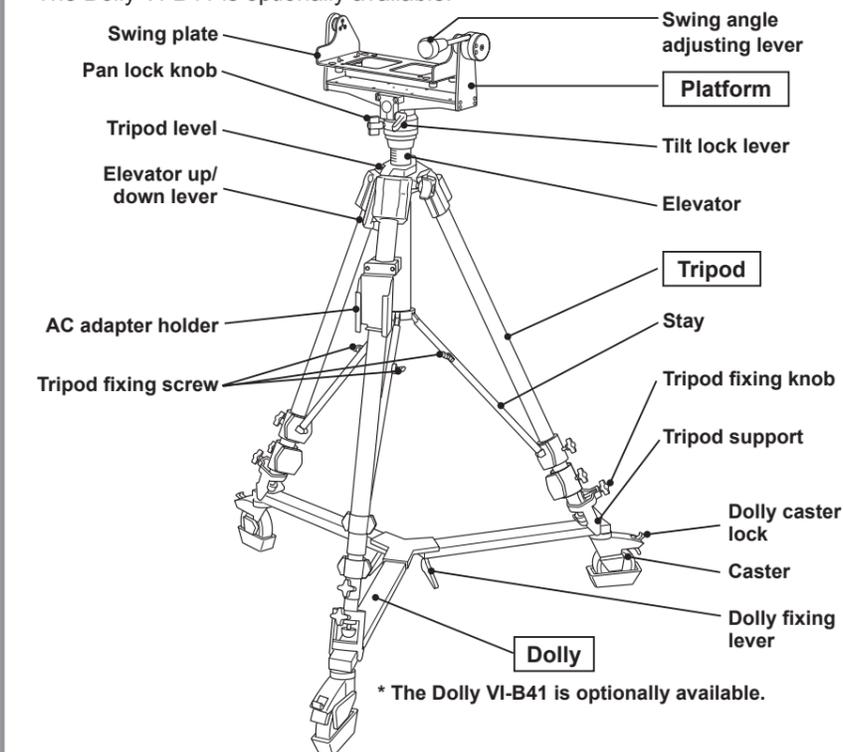
The tripod set RA-121 is composed of the tripod platform set and the tripod.

These components are supplied in separate packages. Before using RA-121, you must assemble these components. The tripod set RA-121 can be used in combination with the Dolly VI-B41 (optional accessory).

Tripod set RA121					Optional accessory
Tripod platform set RA-151			Tripod	AC adapter holder	Dolly VI-B41
Tripod platform set	Assembly tool	Cable clamp set			

## Part Names (Complete Assembly Drawing)

\* This figure shows an example of configuration using the dolly. The Dolly VI-B41 is optionally available.

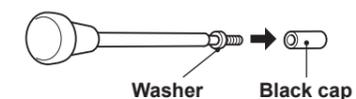


\* The Dolly VI-B41 is optionally available.

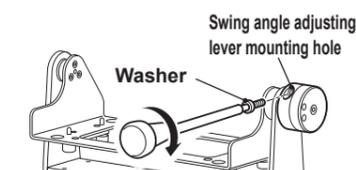
## Assembling of the Platform Set

### Mounting the swing angle adjusting lever

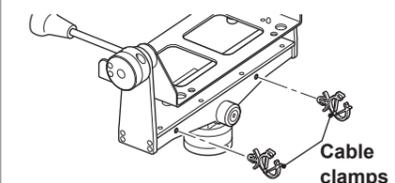
(1) Remove the black cap being careful not to drop the washer.



(2) Insert the threaded end of the lever into the swing angle adjusting lever mounting hole, and mount the lever by turning it clockwise.



### Attaching the cable clamps



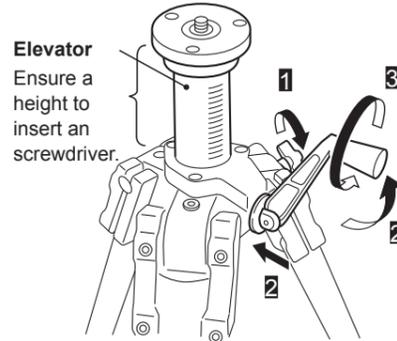
# Assembly Procedure

## 1. Open the tripod.

- (1) Open the tripod to an appropriate width, without extending the legs.
- Fasten the tripod legs with the tripod fixing screws at three points.

## 2. Raise the elevator.

- Raise the elevator to a height that provides enough space to insert a flat-blade screwdriver under the platform when mounting the tripod platform.

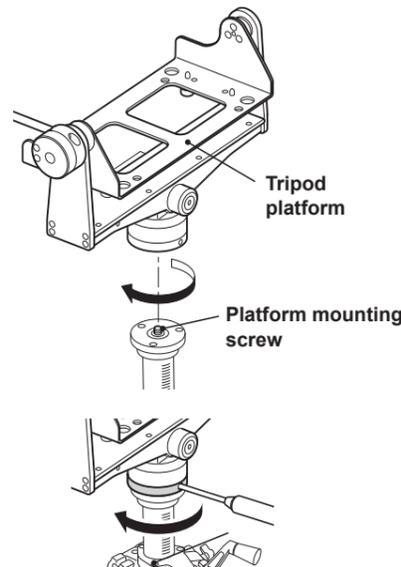


(Procedure)

- 1 Loosen the elevator fixing screw.
- 2 Push the lock, and raise the elevator up/down lever.
- 3 Turning the elevator up/down lever clockwise lowers the elevator. Turning the lever counterclockwise raises the elevator.

## 3. Mount the tripod platform.

- (1) While holding the tripod platform with both hands, set the tripod platform to the tripod platform mounting screw at right angles, and mount the platform by turning it clockwise.



- (2) Insert the driver tip of the assembly tool into the hole in the bottom of the platform and then turn it clockwise to tighten it further.

- (3) After completion of the above procedure, adjust the tripod platform height appropriately by turning the elevator up/down lever.

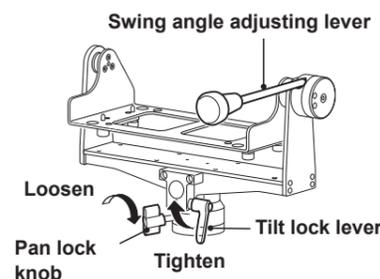
## 4. Mount the RANGE7 to the tripod platform.

**Note**

- Check that the tripod is securely opened, and that each fixing lever is securely tightened.
- Mount the RANGE7 on a stable floor.

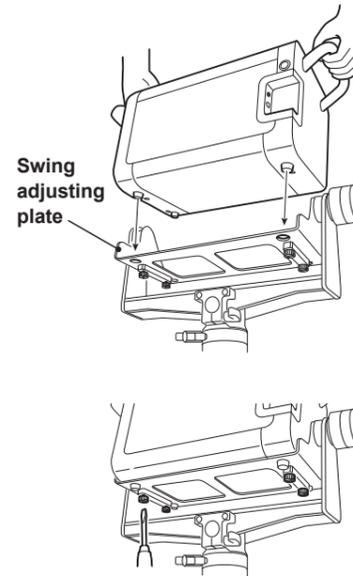
- (1) Adjust the platform swing plate mounted on the tripod set horizontally, and fix it.

- \* Make sure that the tilt lock lever and the pan lock knob are tightened.



- (2) Holding the handles of the RANGE7, place it on the swing plate.

- Place the RANGE7 so that the two rubber legs on the backside of the four legs on the bottom of the RANGE7 securely fit the positioning holes on the swing plate.



- (3) Insert the four screws attached on the rear side of the swing plate into the platform mounting screw holes on the bottom of the RANGE7. Turn the screws clockwise and tighten them securely.

**Note**

- Reverse the above procedure when removing the RANGE7.
- The fixing screws on the bottom of the swing plate are normally designed not to drop off. Please note, however, that they may drop off if you turn them forcefully away from the position allowable for the removal the RENG7.

## 5. Attach the AC adapter holder

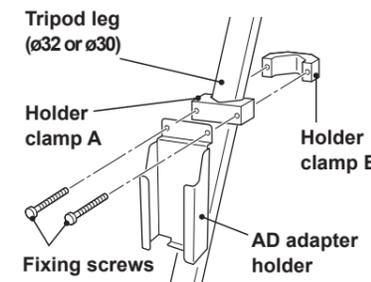
**Note**

- You need to extend or contract the tripod legs for operation. Please decide the mounting position of the AC adapter holder on the tripod after taking into account how to best handle the cord.

- (1) Align the AC adapter holder with "the holder clamp A" and put the two fixing screws through.

- (2) Place the AC adapter holder and holder clamp A on the tripod leg, and use holder clamp B to support the screws. Tighten them lightly.

- \* Tighten the two screws alternately little by little, instead of tightening only one of them at a time. They must be equally tightened.



## 6. Completion of assembly (Final check before measurement)

- Re-check the tripod and platform mounting parts for looseness or shake. If any part is loose or shakes, re-tighten it securely.
- Check if the RANGE7 will not become unstable when it is tilted forward. If the RANGE7 may become unstable, open the legs more widely.

**Memo**

- For details regarding wiring, please refer to the RANGE7 instruction manual.

## How to Use the Optional Dolly VI-B41

### ⚠ PRECAUTIONS FOR USE

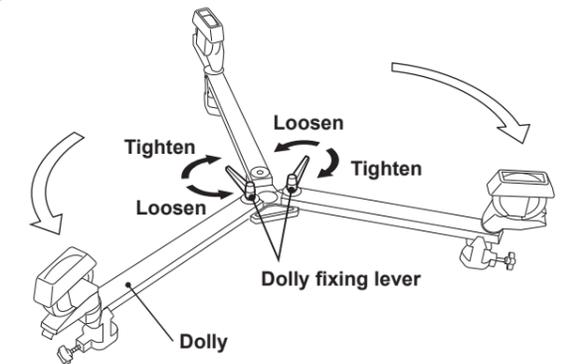
- During measurement, activate the dolly caster lock to prevent the tripod from accidentally moving.
- Do not step on, or mount the dolly. Doing so may result in overturn, injury, or damage to the equipment.
- To move the tripod while using the dolly, release the dolly caster lock, and slide the tripod slowly. Abrupt movement causes the casters to be caught in a step or obstacle, resulting in overturning.
- On a thick-piled carpet, etc., the casters may not move well.

## 1. Assemble the dolly.

- (1) Set the dolly as shown on the right. Turn the two dolly fixing levers on the movable legs counterclockwise to loosen the levers appropriately.
- If the dolly fixing lever is excessively loose, it comes off and falls.

- (2) Open the two movable legs equipped with the dolly fixing lever, and fasten the legs as shown on the figure.

- Make sure that the two opened movable legs have been securely fit in the guide grooves, and fasten each leg by turning the dolly fixing lever clockwise.
- Turn the dolly upside down, so that the casters are placed on the floor.



## 2. Set the tripod on the dolly.

- (1) Insert the three legs of the tripod into the individual tripod supports at three places on the dolly, and fasten the legs.

- To conduct this step, activate the dolly caster lock.
- Loosen the tripod fixing knob so that the tripod legs can be inserted into the tripod supports (at three places). Then, insert the three legs of the tripod into the tripod supports.
- Adjust each tripod support so that the tripod fixing knob is perpendicular to the tripod leg. Then, fasten the leg with the tripod fixing knob.

