Juganu

Understand your space
like it's digital

Smart Kit

Installation Manual

Contents

Safety Information

READ AND FOLLOW ALL INCLUDED SAFETY INSTRUCTIONS.

To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards.

These safety instructions may not possibly cover all details or variations in equipment nor to provide every possible contingency during installation, operation, or maintenance.

NEVER rewire, reconfigure, or modify the device or attempt any repairs yourself. For conditions or problems that are not covered sufficiently for the purchaser's or owner's purposes, **please consult with Juganu's Customer Service**. Juganu has the right to decline provision of after-sales service if repair/maintenance was carried out by an entity that is not licensed/certified for its products.

Installation must be performed by a certified licensed electrician in accordance with local law.

WARNING – RISK OF ELECTRIC SHOCK

- Make sure the AC power grid functions properly – otherwise, damage may occur to the internal driver.
- Verify that the supply voltage is correct (as specified on the device's information label).
- Always turn the device off or disconnect it from power before installing or servicing.
- Use only cables and connectors supplied by Juganu.

CAUTION: RISK OF PRODUCT DAMAGE

- Visually inspect the device for visible cracks, missing screws, or exposed electrical components. **DO NOT INSTALL A DAMAGED PRODUCT!**
- Ensure that the installation surface is suitable for connecting and supporting the device.
- Do not connect components under load.
- Do not use electric power tools to tighten the screws.
- Do not remove the label from the device.
- Leave some airspace around device. Avoid covering device with insulation, foam, or other material that can cause overheating.
- Do not operate the device outside the ambient temperature range (-40°C ÷ +60°C / -40°F - 140°F).
- Keep the device away from extreme heat sources or flames.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during installation.
- Do not touch sensor module lenses with fingers. If cleaning is necessary, use a clean cloth with a bit of ethanol and wipe them gently.

Before You Install

This guide shows how to install the Juganu SmartKit on various mounting surfaces.

Package Contents

The SmartKit shipping box contains the SmartKit device and other accessories needed for installation. The device is packaged separately from the various mounting kits.

Verify that you have received the following items. If any item is missing or damaged, do not proceed with the installation. Contact your Juganu representative.

SmartKit Device Package

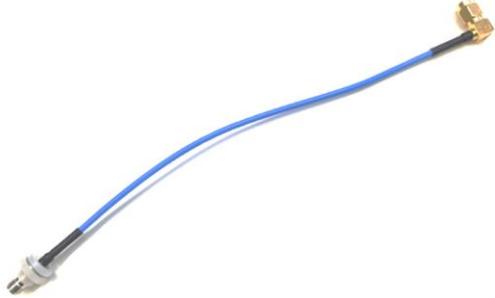|	
☐ SmartKit device	
☐ 2-wire AC cable (protruding from SmartKit unit's AC socket)	
☐ 3-pin AC junction box connector (for connecting device AC cable to the power source cable)	

☐ Plastic bag of antennas:
  o 2 male reverse polarity SMA
  o 1 male standard polarity SMA	

For the various mounting kit packages, see the relevant version list below:

- Recessed Mounting Kit
- Wall/Hard Ceiling Mounting Kit
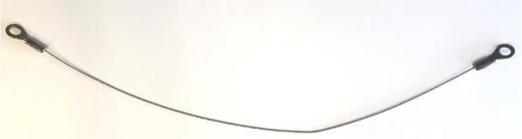- Linear Lighting Mounting Kit

Recessed Mounting Kit

☐ Two (2) mounting half-rings	
☐ Four (4) #10-32 x 1/4" Phillips pan head machine screws	

Wall/Hard Ceiling Mounting Kit

☐ Two (2) wall-mounting brackets	
☐ One (1) SMA male to SMA female cable (20 cm) (standard polarity)	
☐ Two (2) RP-SMA male to RP-SMA female cable (20 cm) (reverse polarity)	
☐ Four (4) #10-32 x 1/4" Phillips pan head machine screws	

Linear Lighting Mounting Kit

|	
☐ Two (2) Mounting brackets	
☐ Lamp Adapter	
☐ Wire rope with 5 mm terminal rings (25cm)	
☐ Four (4) Hex slotted self-drilling screws (#8-18X1/2")	
☐ Eight (8) #10-32 x 1/4" Phillips pan head machine screws	

Required Tools

| 1. Phillips screwdriver [1/4"]	2. Flat head screwdriver for [#8-18X1/2 inch] screws (or hex socket wrench)

Installation – Recessed Ceiling

**Note - Ensure that the ceiling material is plaster or another hard material.**

The Recessed Mounting option requires that a 230 mm (9.055 in) hole is opened in the ceiling.
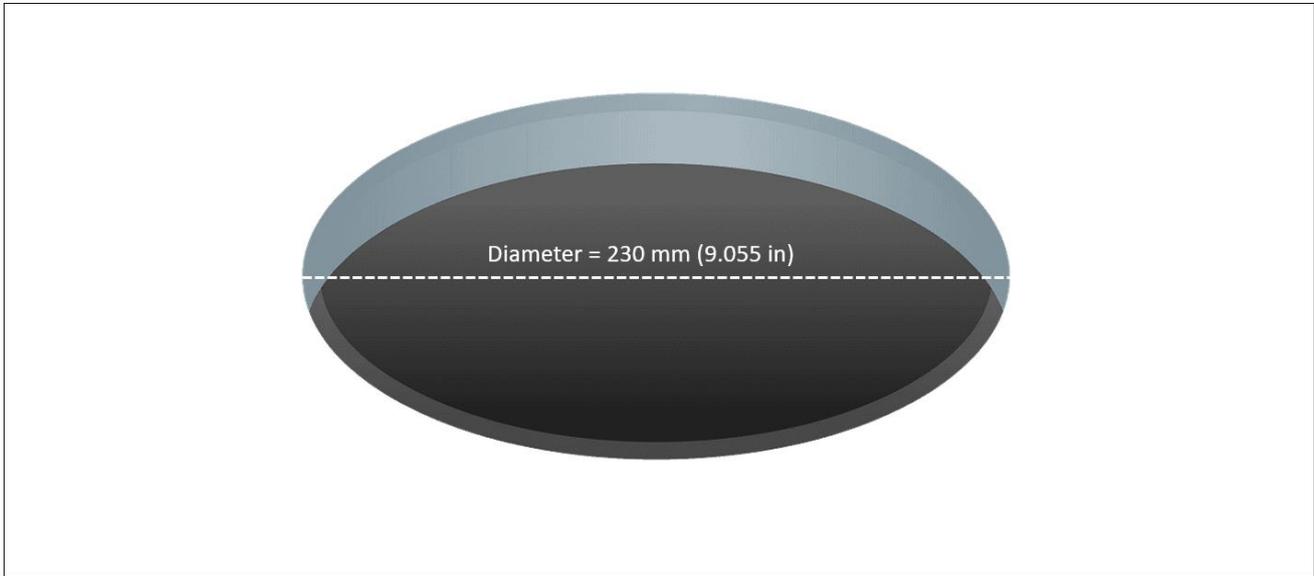

Diameter = 230 mm (9.055 in)

1. Remove the three antennas from the shipping box and attach them onto the Smart Kit device. Make sure to attach the reverse polarity (RP) antennas on the correct connectors.


RP = reverse polarity
SP = standard polarity
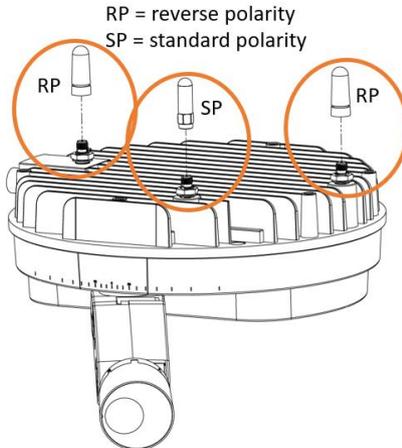
2. Attach and secure one half-ring to the device using #10-32 screws. Slide the device (antenna side facing up) into the first half-ring, with the half-ring's male side facing upward.
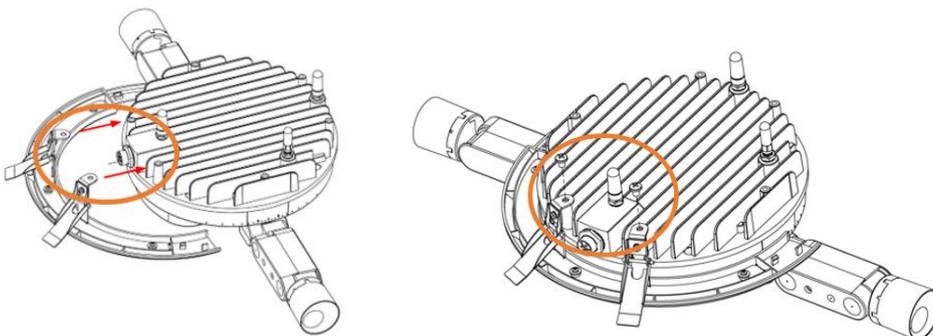
3. Attach the second half-ring around the Smart Kit device, interlocking with the first half-ring and the female side on the top. Snap the half-rings into place.
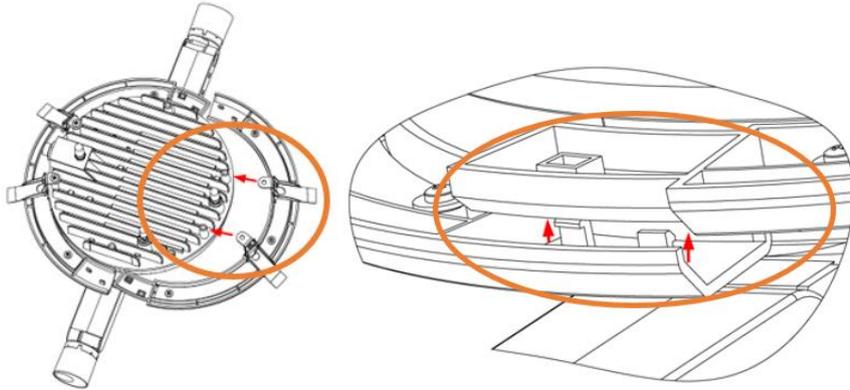
4. Screw the additional two #10-32 screws securing the half-rings onto the device.
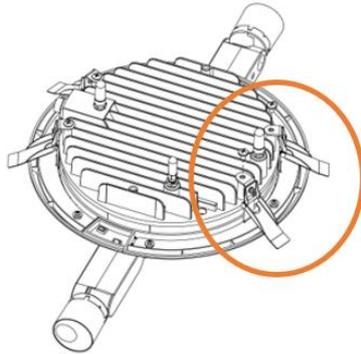
5. Press all of the bracket clips inwards toward the center of the device and insert the complete assembly into the precut ceiling hole, releasing the clips as you raise the unit into the hole. The clips should now hold the recessed device on the ceiling.
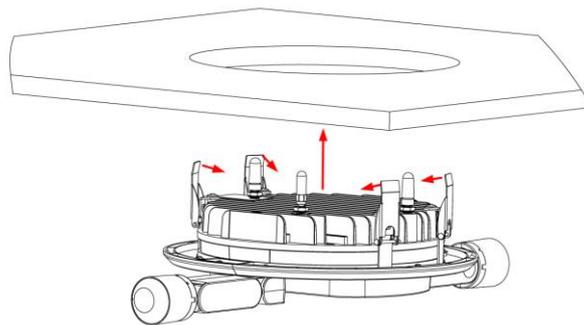
Installation Procedure – Wall Mounting

Ensure that both RP-SMA cables (reverse polarity) are attached to one bracket.

1. Thread the auxiliary SMA (standard polarity) extension cable through the mounting bracket. Secure the SMA cable to the bracket using a zip-tie.

2. Thread one of the RP-SMA ends through the second mounting bracket. Secure the RP-SMA cables to the bracket using a zip-tie.
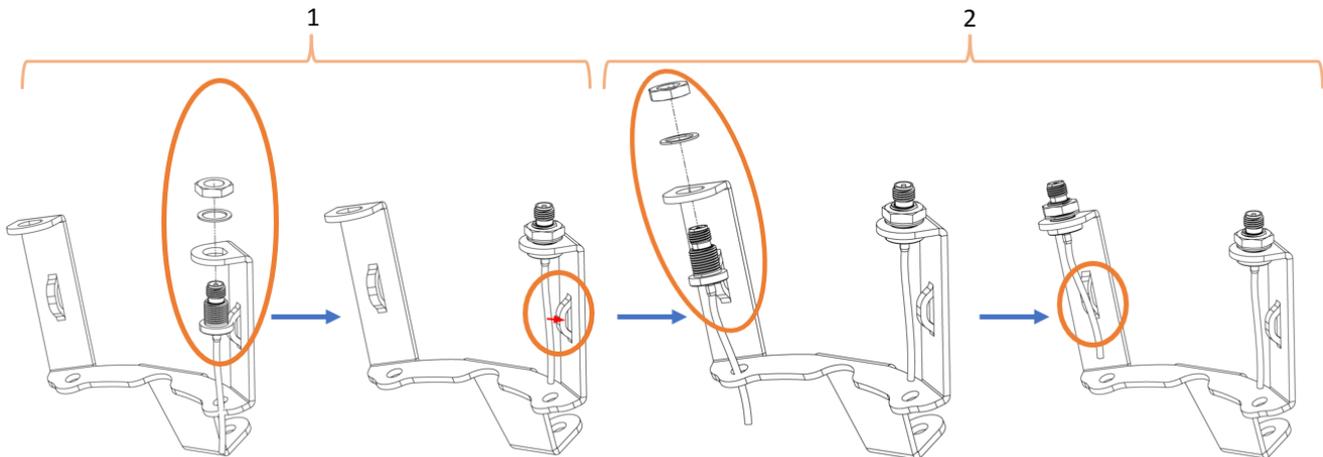

3. Using two #10-32 screws for each bracket, tighten the brackets onto the device chassis.
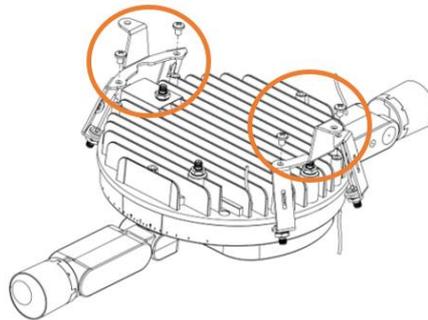
4. Connect the auxiliary SMA cable connector that protrudes from the chassis to the matching ends of the SP SMA cable on the first side.
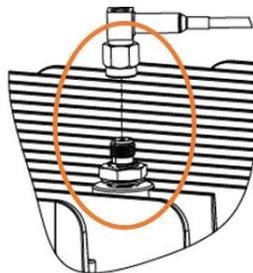
5. Remove the three antennas from the shipping box and attach them to the bottom of the brackets as illustrated below.

RP

RP

SP

RP = reverse polarity
SP = standard polarity
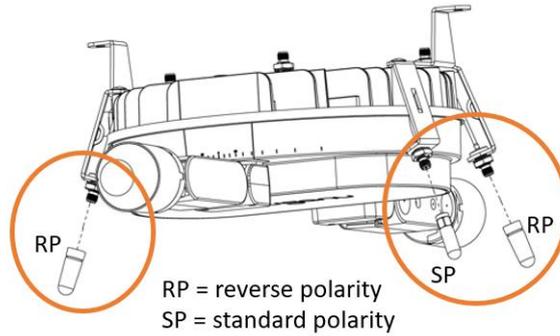
6. Attach and secure the assembled device to the wall, using 5mm size screws and studs. The distance between the two brackets is 230 mm.

Installation Procedure – Linear Lighting

1. Mount the lamp adapter on top of the light fixture fitting. Secure the adapter in place by tightening four (4) hex screws into the fitting.

2. Secure the adapter by tightening hex-slotted self-drilling screws through the slots at both ends of the adapter.

NOTE – If your fixture fittings already include the proper screw type and size, you may use them.
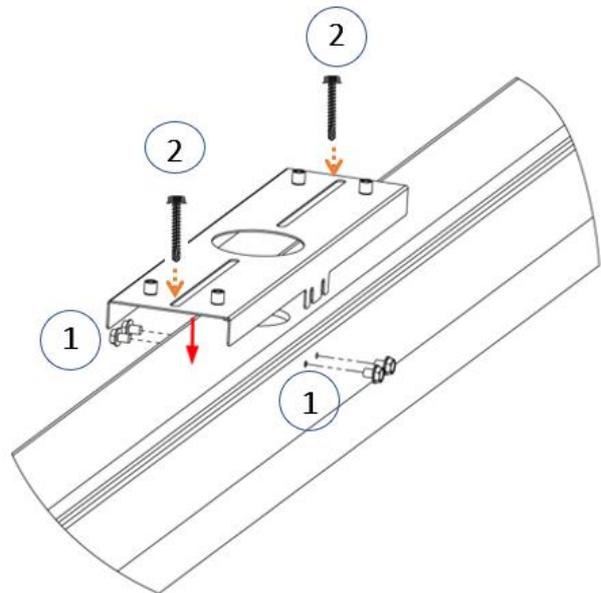
3. Remove the three antennas from the shipping box and attach them onto the Smart Kit device. Make sure to attach the reverse polarity (RP) antennas on the correct connectors.

RP = reverse polarity
SP = standard polarity

RP

SP

RP
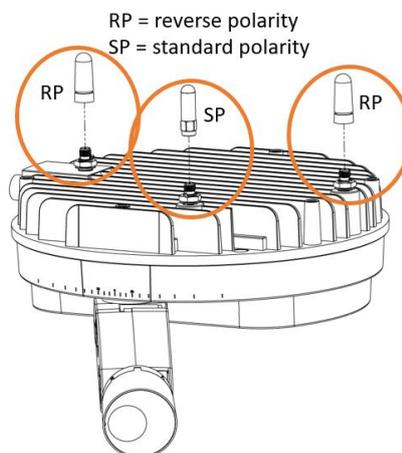
4. Fasten the two mounting brackets to the Smart Kit device. Secure the brackets in place by tightening four (4) of the Phillips screws.
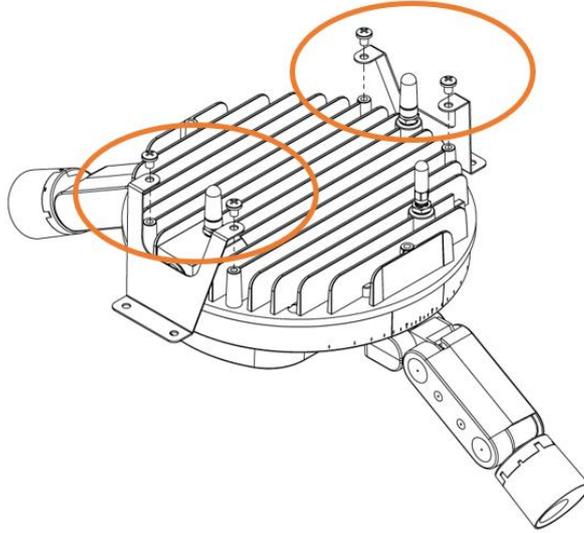
5. Attach the Smart Kit unit and brackets to the lamp adapter, using the bracket slots and the hole on the fixture fitting as a positioning guide.
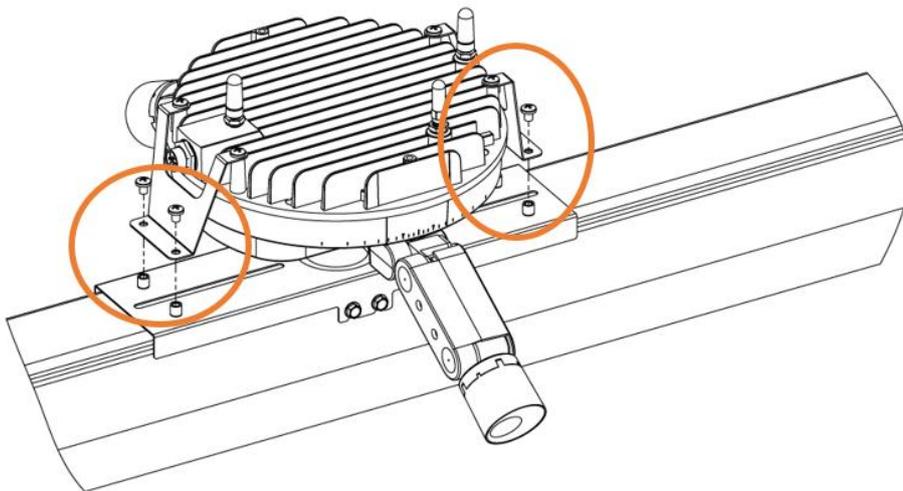
6. To prevent the assembled unit and brackets from falling, attach one end of the steel cord to the SmartKit unit and the other end to the fixture fitting.
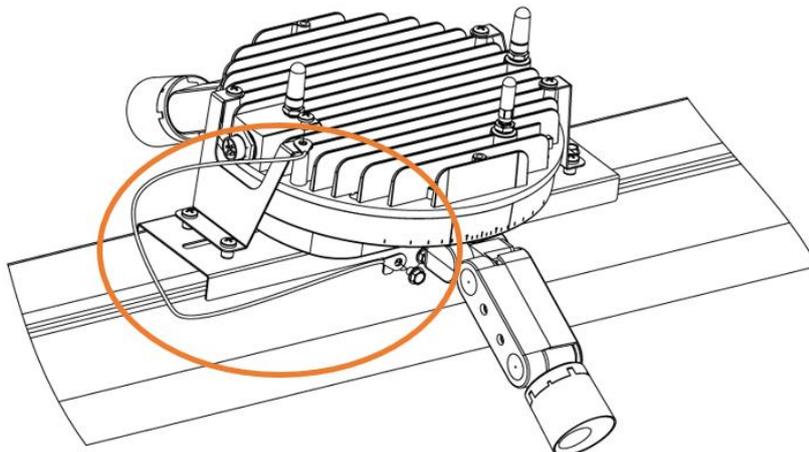
Connecting the AC Power

When shipped, an open-ended 2-wire AC cable is already connected to the SmartKit unit. A junction box connector is supplied in the package contents in case the room's power connection requires it.

⚠️ **WARNING** – Ensure that the AC power supply to the SmartKit is turned off before connecting the power wires!

1. Connect the open-ended side of the AC cable to the power cable or plug that connects to a nearby AC power source.
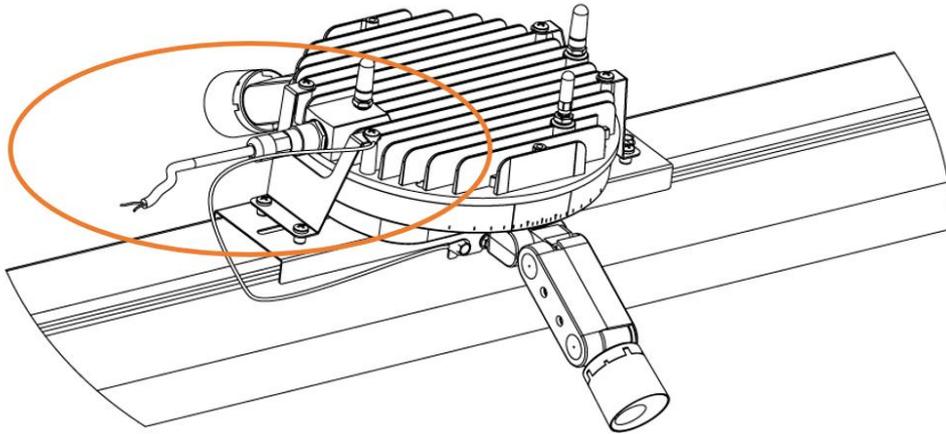
The fixture wiring is color-coded according to the regional jurisdiction's electrical standard:

Wire	IEC	USA
Neutral	Blue	White
Line, single phase	Brown	Black

2. If using the supplied junction box connector, connect the AC cable protruding from the SmartKit to the AC power supply cable.

3. Ensure that the AC cable connected to the SmartKit and the junction box connector meets the following specifications:

Wire strip length	8-10 mm (0.37 in)
Wiring size	Solid wire: 0.08~4.0 mm²/12~28 AWG Strand: 0.08~2.5 mm²/14~28 AWG

Adjusting Camera Angles

After the SmartKit unit is securely installed, align the cameras so that they cover the areas that require observation and monitoring.

This procedure requires direct cooperation with Juganu's Customer Support team. All cameras must be aligned according to the pre-defined lighting simulation plan devised by the Customer Support team. The cameras are pre-focused before shipping, so only alignment of the camera arms is required by the installer.

The camera mechanisms each contain three joints and may be moved along two axes. Each camera arm joint has increment markers which indicate that joint's angle.

- To adjust the camera angles, hold the mechanism firmly in one hand. With your other hand, adjust each joint's angle until the camera view is satisfactory.

Joint 1 Yaw (side-to-side)	Joint 2 Pitch (up-down)	Joint 3 Pitch (up-down)