SLIDEKAMERA
BY MRMC

using SLIDEKAMERA slider with Panasonic AW-RP150 controller

requires SLIDELINK v3.0 communication module
firmware version 3.0.22 or above

User Manual

available for download: www.manual.slidekamera.com

v03/2023

TIP

On the margins you will find information, which complement the contents of the manual.
They are not essential for the correct operation of the device, but you might find them useful.

Before you start your work with the **AW-RP150 and Slidekamera system** controller we strongly recommend to read the manual carefully.

Please note that using the controller in a manner inconsistent with the instructions, any unauthorized repair attempts or any kind of modification of the device can cause a damage the manufacturer is not responsible for.

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SLIDEKAMERA S.PAWELEC K.MIKULSKI S.K.A.

Kartuska 386
80-175 Gdansk
VAT No: PL5833444060

tel./fax (+48) 58 710 41 04
e-mail: office@slidekamera.com
www.slidekamera.com

1. Firmware

All devices require the newest firmware to operate the system.

AW-RP150 panel requires version 2.20-00-0.00 or higher. For updating AW-RP150 panel, refer to its operating instructions.

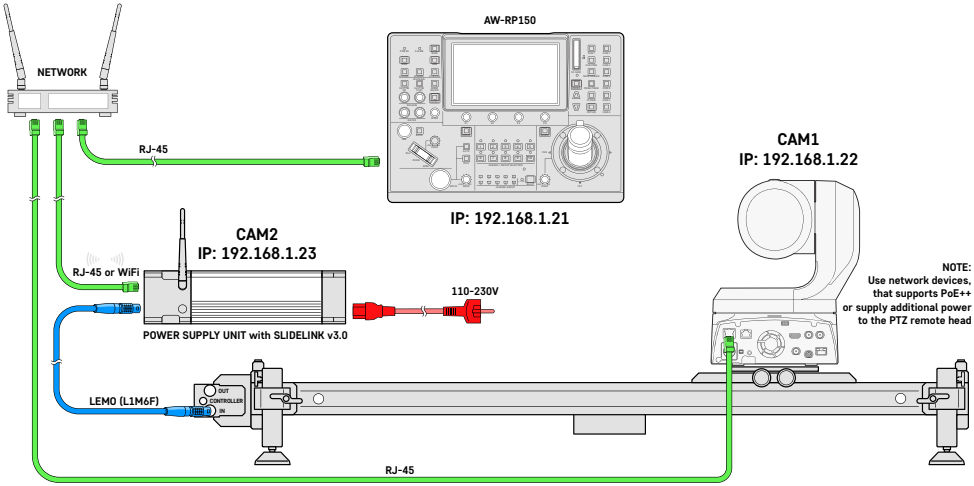
Slidelink v3.0 network module requires version 3.0.22 or higher. To update the Slidelink, use Slidekamera Firmware Updater, available at https://slidekamera.com/software.

2. Connections - setting up the network

Using the AW-RP150 to control Slidekamera devices requires using the Slidelink v3.0 network module, which will translate Panasonic protocol to Slidekamera devices.

It may be used as a standalone device or built-in into other devices. Most commonly, it's integrated into Power Supply Unit.

In most cases, all devices (AW-RP150, PTZ remote head and Slidelink v3.0) must be connected to the same network and share the same network ID (first three numbers of the IP address).



Example of Ethernet connections, camera numbers and IP assignments

3. Slidelink connection

Connect the Ethernet cable to the device (blinking LEDs on the Ethernet port will indicate the connection) and switch its Connection Mode to "**Ethernet mode**" using the config page or by double-pressing the **CONFIG** button on the device.

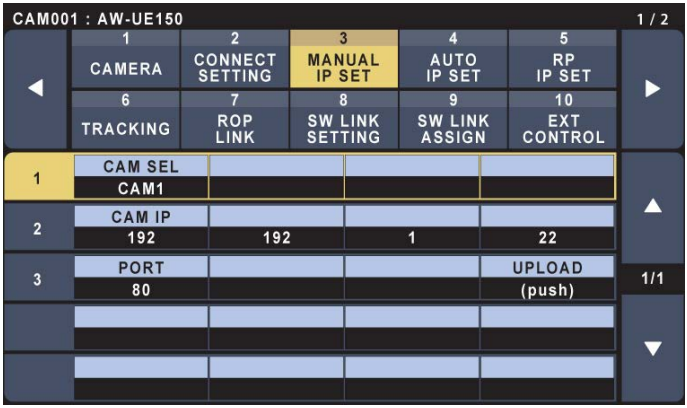
The **STAT LED** will turn blue, and you can start using the Ethernet connection.

4. Configuring IP addresses

4.1. Set IP addresses of the PTZ camera and AW-RP150 panel

Refer to the user manuals of corresponding devices for details.

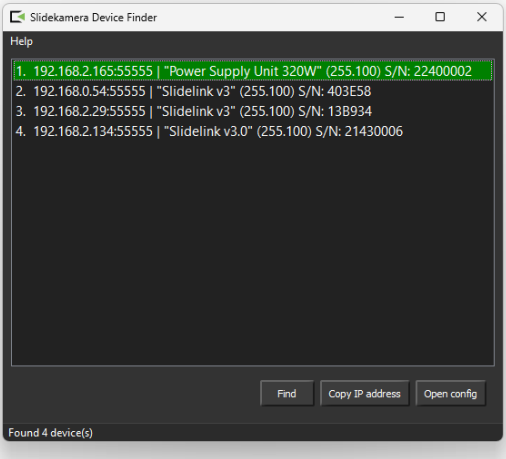
Set the PTZ camera IP on the controller. On the example below, the AW-UE150 camera is set as CAM1:



4.2. Obtaining IP addresses of the Slidelink v3.0 - DHCP

By default, Slidelink v3.0 uses DHCP protocol to obtain its IP. If your network supports DHCP, you can use your router setup to find the Slidelink's address or Device Finder software to find all Slidekamera devices in your local network.

You can download the software from Slidekamera website:
https://slidekamera.com/software



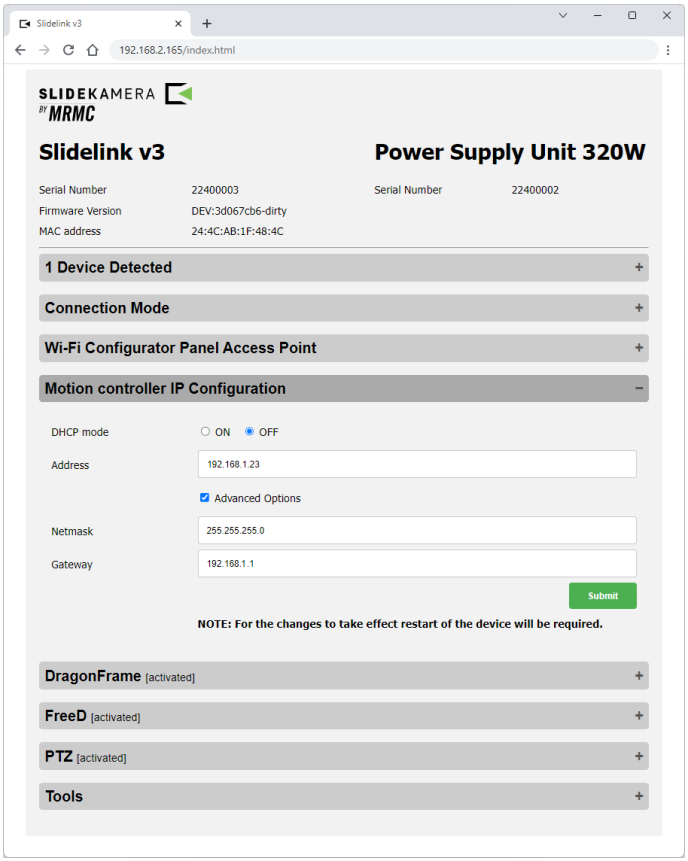
4.3. Setting IP addresses of the Slidelink v3.0 manually

To set the IP address of the Slidelink v3.0 module, access its config webpage. It's available over Ethernet or Wi-Fi. Both networks use different IP addresses, so if you change the addresses on the Ethernet port, the Wi-Fi may still be available using the default settings.

- open Slidelink's config page using Wi-Fi for the first IP configuration, as Ethernet connection is not ready yet;
- connect your computer or mobile device to the wireless network provided by the Slidelink (SSID and password are engraved on the Slidelink's housing);
- go to 192.168.4.1 using a web browser;
- scroll to the "Motion controller IP Configuration" tab;
- switch off DHCP and enter the address in the corresponding field; the Slidelink sets the Netmask and the Gateway automatically, if you wish to configure them manually, check the "Advanced Options" checkbox;
- click the "Submit" button and reset the Slidelink module by using the "Restart" button from the "Tools" tab.

TIP

In most cases, the Netmask should be set to "255.255.255.0", and the Gateway should be your network ID (first three numbers of your IP address) and "1", e.g. "192.168.0.1". Use different settings only if you're confident that they're correct.



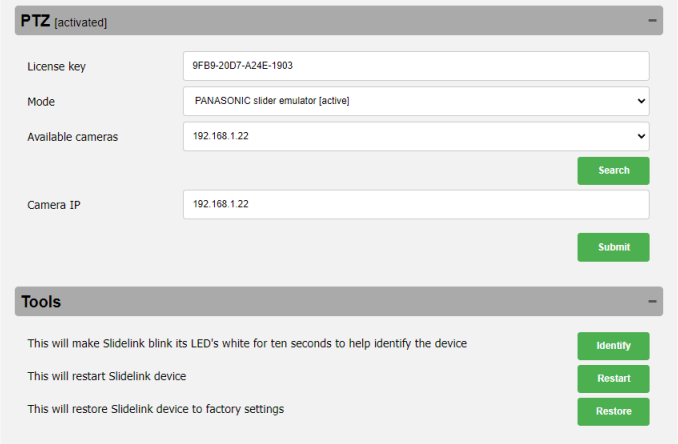
Ensure the Slidelink is in the “Ethernet mode” (STAT LED is blue).
You can verify the connection using Device Finder software - it will find a correctly configured device over Ethernet.
From now on, you can also enter the config page over Ethernet using its new IP. However, the Wi-Fi will remain active. You can also edit the settings using the wireless connection.

5. Slidelink as an emulated camera

Configuring the system for realtime workflow and access to the presets requires adding parameters of the Slidelink v3.0 into the AW-RP150 and parameters of the PTZ camera into the Slidelink v3.0.

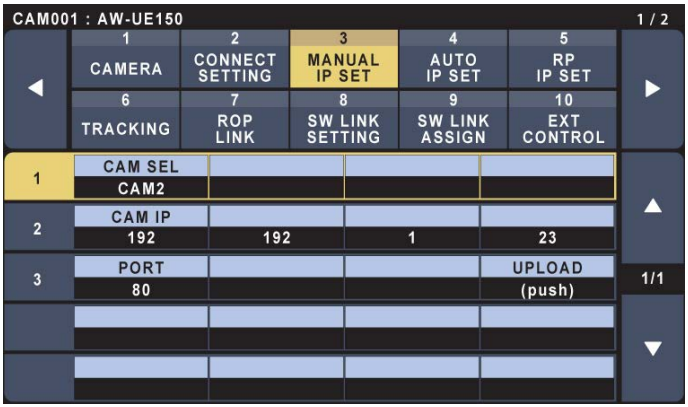
5.1. Setting the Slidelink v3.0 as an emulated camera

- open Slidelink’s config page;
- scroll to the PTZ tab;
- ensure, that the “License key” is entered properly and the PTZ feature is activated; f it’s not, please contact your Slidekamera reseller;
- change Mode to “PANASONIC slider emulator”;
- click the “Search” button to find compatible PTZ heads in the local network;
- choose your head from the dropdown menu; if a head was not found, manually enter Camera IP in the corresponding field;
- click “Submit” to apply changes.



5.2. Configuring AW-RP150 for the Slidelink emulated camera

- press the SYSTEM button on the AW-RP150 panel;
- go to the “MANUAL IP SET” tab;
- assign a new CAM number;
- enter the IP address of the Slidelink;
- set PORT to 80;
- upload settings.

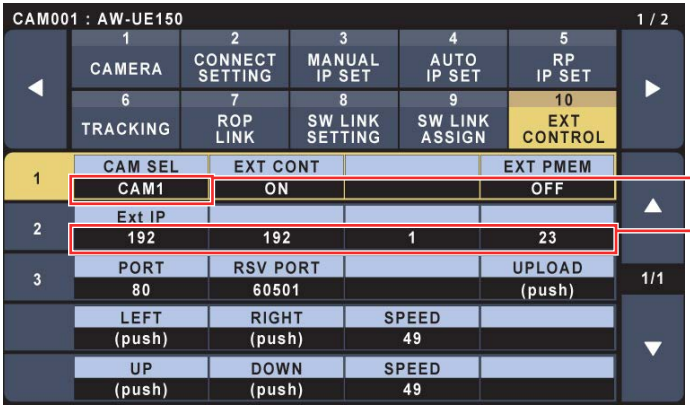


5.3. External control settings

For real-time operating on PTZ camera and the slider simultaneously, configure External Control settings.

This will allow steering of the slider emulated camera while operating the PTZ remote head.

- go to EXT CONTROL tab
- select your PTZ camera number
- set EXT CONT to ON
- enter the IP of the Slidelink module
- set PORT to 80 and RSV PORT to 60501
- upload settings
- exit system configuration by pressing SYSTEM button on the panel



The LED above the number assigned to the slider should turn green.
The slider is ready to operate.

6. Calibrating the slider

Calibration is a process of setting safety limits - extreme positions that will never be exceeded. This prevents breaking off cables or damaging the camera. For safety reasons, the slider drive which is not calibrated won't work. You need to calibrate the drive each time you turn it on because it's easy (and very likely) to move powered-off equipment. Operating miscalibrated gear may lead to damaging the slider or camera.

The "axis name/status" field displays "**Range--0--**", if the slider is not calibrated, and it indicates the current calibration steps during the process.

If the field displays "**Busy**", another controller uses this slider.

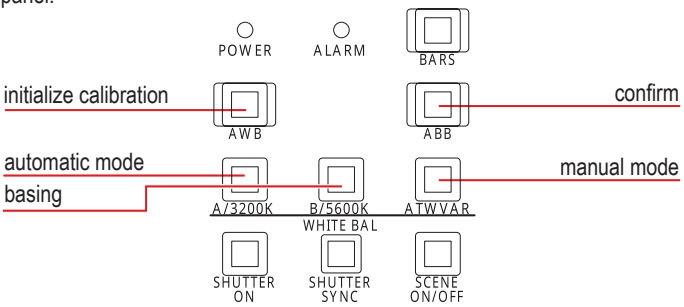
There are three ways of calibrating the slider:

- **automatic calibration** - the slider will gently bounce off the side brackets to determine the working range;
- **basing (homing)** - the slider will gently bounce off one of the side brackets (left or right) and restore the previous working range;
- **manual calibration** - setting the safety limits by moving the drive to extreme positions.

NOTE

The AW-RP150 panel does not provide any workflow for safety limits on the drives. Therefore a workaround was designed - using buttons in the Color adjustment section, otherwise unused on the Slider's emulated camera.

For setting safety limits, use the Color adjustment section of the AW-RP150 panel.



- press **AWB** button to activate calibrating procedure;
- select the calibrating procedure you want to execute by pressing the assigned white balance button;

NOTE

During manual calibration, be careful not to touch the slider's end brackets with the cart, as you're operating now without any safety limits.

automatic calibration:

- select the **A/3200K** button;
- initialize by pressing **ABB**;

basing:

- select the **B/5600K** button, press the button again to change the direction of the basing procedure;
- initialize by pressing **ABB**;

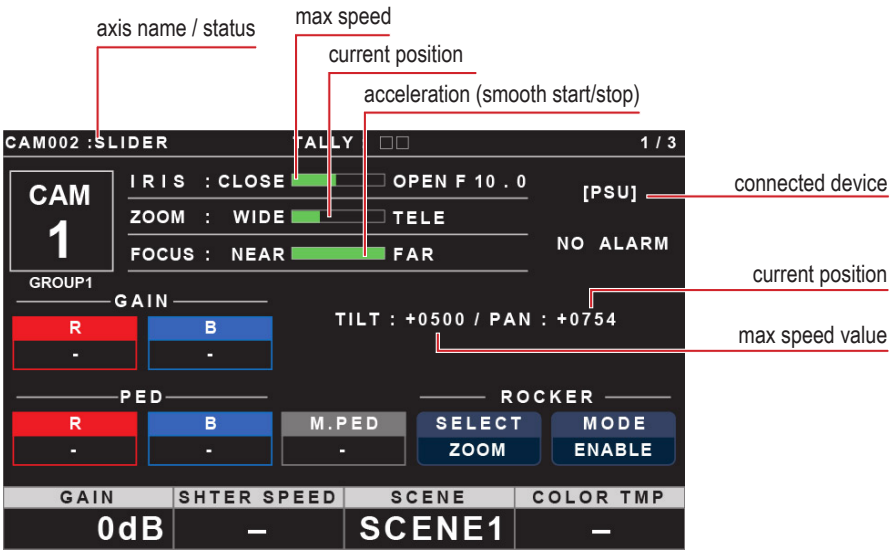
manual calibration:

- select the **ATWVAR** button and initialize by pressing **ABB**;
- move the slider to the first extreme position using joystick or zoom rocker and press **ABB** to confirm;
- go to the second extreme position and again confirm by pressing **ABB**;

- after the calibration procedure, the slider is ready to work.

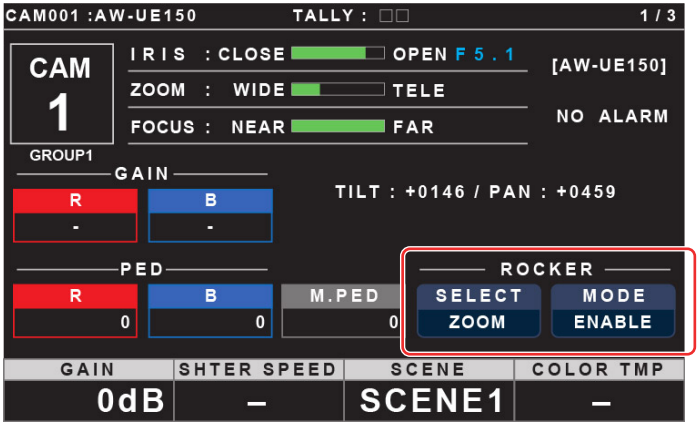
7. Working in real-time

You can use the joystick or zoom rocker to move the slider left/right. To set its top speed, use the IRIS knob. To change acceleration, use the FOCUS knob. Setting speed/acceleration (IRIS/FOCUS) to AUTO will set the values automatically to 50%.



To operate the slider and the PTZ camera simultaneously, switch the AW-RP150 to the PTZ camera.

Set the ROCKER switches: SELECT to ZOOM and MODE to ENABLE.



Move the slider with the rocker on the joystick.

Use the rocker on the panel to control the zoom of your camera.

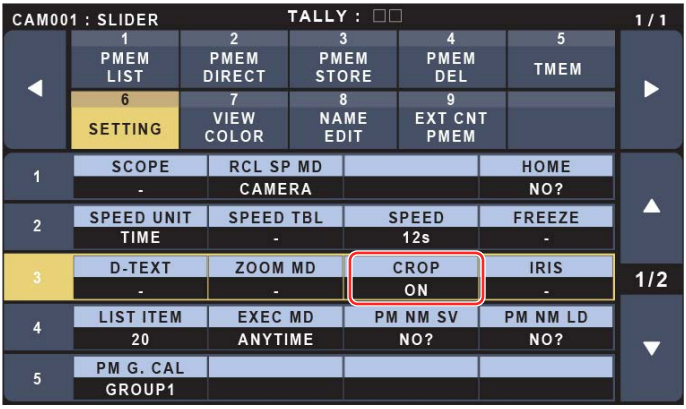
8. Working with presets

To save and recall presets for both slider and the PTZ camera, you have to switch back and forth between PTZ camera and slider emulated camera. For setting the position, use PTZ camera. For creating and restoring preset for all devices at once, switch to slider camera. While playing the presets, the Slidelink v3.0 network module will control the PTZ camera accordingly.

8.1. Configuration

Using presets in synchronization requires additional settings.

To allow Slidelink to modify the time of PTZ movement, select slider emulated camera and press PMEM/TMEM button, and choose SETTING tab. Set CROP to ON.

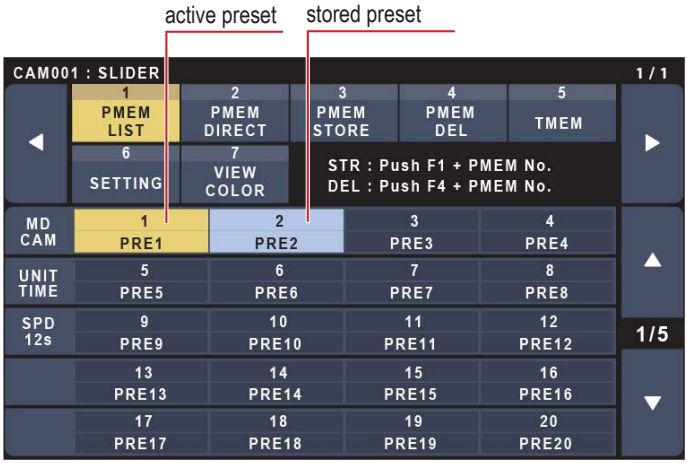


Access presets by switching to the PMEM LIST tab (you can also access them by scrolling the main screen using cursor movement buttons.

For the PTZ camera, set MD to CAM and UNIT to TIME, using F1 and F2 knobs. This will ensure, that the PTZ camera will go to the destination position in the calculated time.

8.2. Saving and restoring presets

- switch to PTZ camera;
- move all axes to a position you want to save as preset;
- switch to slider emulated camera;
- to store the preset, hold F1 and select desired preset on the screen (you can only presets 1-8);
- to recall the preset, press corresponding button on the screen;



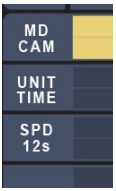
8.3. setting the travel time for presets

Switch to slider simulated camera. Set the MD to CAM. You will use the UNIT and SPD settings when playing the presets to indicate the time or the speed of reaching the preset positions.

UNIT STEP - setting the speed of the drive

SPD - speed value (1-30), where 1 is the slowest slider speed and 30 is the fastest;

UNIT TIME - setting the time of the travel in seconds;



The speed and time values refer to the slider. If the system detects that the slider cannot go in the designated time, it will go with the highest speed available. The PTZ head will rotate to maintain synchronization.

If the slider can perform the movement in the desired time, but the head cannot, the system won't detect that, and the drives won't travel in sync.

If this occurs, lower the time of travel.

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