SLIDEKAMERA

NEXT LEVEL OF FILMMAKING

SLIDE™ LINK

WI-FI WIRELESS ADAPTER

User Manual

pdf version of the manual available for download: www.slidekamera.com

Before you start your work with the **SLIDE LINK** adapter we strongly recommend to read the manual carefully.

Please note that using the adapter 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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1. Description of the wireless adapter Wi-Fi SLIDE LINK

The **SLIDE LINK** Wi-Fi adapter enables the remote control of the devices of the **SLIDEKAMERA** system via the **Slideye PRO** application (available for iOS and Android tablets) and **SLIDEKAMERA** drivers, equipped with Wi-Fi connection.

A single **SLIDE LINK** is sufficient for controlling the whole system, regardless of the number of devices. In order to increase the freedom of movement of the system it is possible to use a bigger number of adapters.

2. Structure of the SLIDE LINK adapter

Sockets:
- [1] **HET-BUS** socket for connecting the **SLIDEKAMERA** device
- [2]   – antenna socket

LEDS:
- [3] **TX** – it signals the transfer of data to device, connected to the **HET-BUS** socket
- [4] **RX** – it signals the receipt of data from device, connected to **HET-BUS** socket
- [5] **POWER** – it signals the power supply of **SLIDE LINK** adapter
- [6] **STA** – steady light signals operation in wireless network client mode (**STA**) and blinking light – connecting to this network; in access point mode (**AP**) the LED is off.
- [7] **SERVICE** – it signals that the **SLIDE LINK** adapter is in service mode; it should not occur during normal operation
- [8] **AUX** – service diagnostics LED, without informative function for the User.

Keys:
- [9] **RESET** – pressing restarts the adapter
- [10] **CONFIG** – holding down for more than 30 s activates configuration mode

Mechanical fixings:
- [11] Mounting holes with 1/4" thread for adapter mounting
- [12] Mounting holes for screwing the V-mount adapter
- [13] Magnets, enabling magnetic mounting
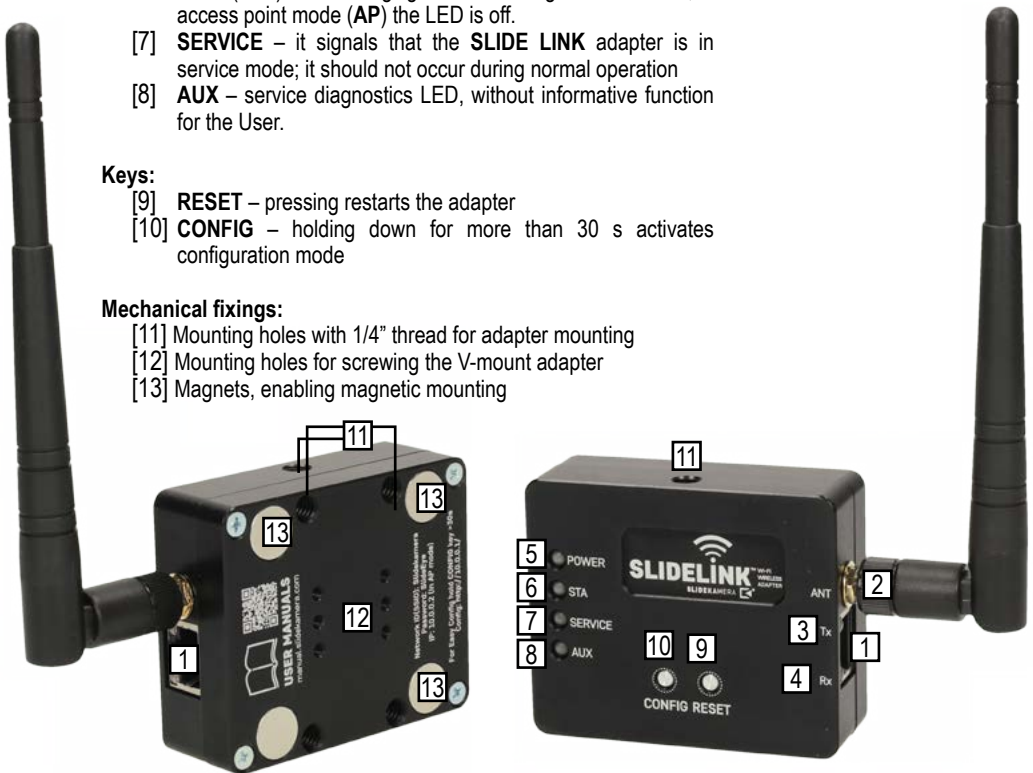
3. Operation modes of SLIDE LINK adapters

The **SLIDE LINK** adapter can operate in one of two modes: Acces Point mode (Access Point - **AP**) or Network Client mode (Station - **STA**).

3.1. Access Point Mode (AP)

There is no need for Wi-Fi network in the **SLIDEKAMERA** device work area when choosing this mode. The **SLIDE LINK** adapter establishes such a network and other devices connect to it: tablets with **Slideye PRO** control application and other **SLIDE LINK** adapters.

The established network is designed exclusively for the **SLIDEKAMERA** system and is not meant for use by other devices. It minimizes the load on the network and ensures a bigger reliability of communication and operation of the **SLIDEKAMERA** system devices.

3.2. Network Client Mode (STA)

In this mode the **SLIDE LINK** adapter does not establish its own network but connects to the already existing network, e.g. the existing local network or the second **SLIDE LINK** adapter, which works in the **AP** mode.

Immediately after connecting to the power supply the **SLIDE LINK** adapter will start connecting to the network it was configured to work with. It will be signaled by blue blinking **STA LED**. The connection with this network will be signaled with a steady light of the **STA LED**.
From this point the adapter is ready for work.

4. Usage scenarios

4.1. Single SLIDE LINK adapter

If only one **SLIDE LINK** adapter is available, an Access Point mode (**AP**) configuration is recommended. It is a default setting and the **SLIDE LINK** is factory configured to operate in this mode.

The adapter in the **AP** mode establishes a default network named "Slidekamera" with an access password, provided on the bottom of the device. These settings may be changed on the configuration tab of the device.

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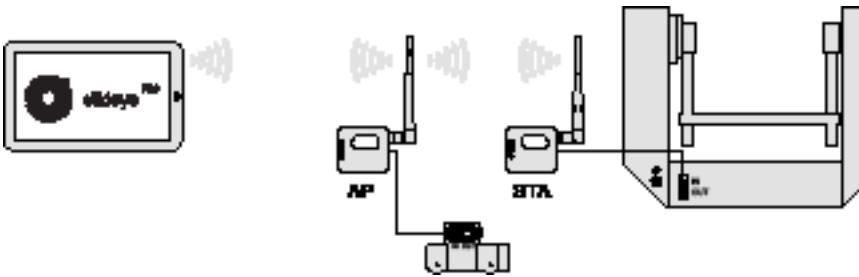**SLIDE**KAMERA
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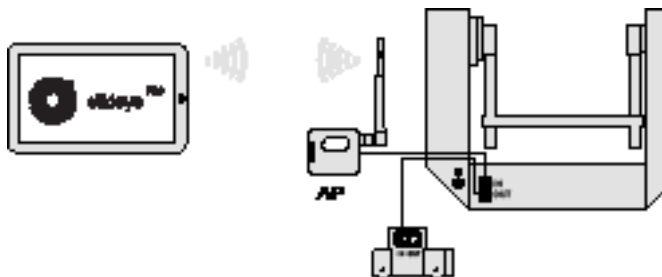
4.2. Several SLIDE LINK adapters

When connecting a number of **SLIDE LINK** adapters together you can eliminate cable connections of the elements with relative movement, achieve a freer motion and avoid an accidental damage of the cable, e.g. between the slider and head.

Multiple **SLIDEKAMERA** devices, located in large distances from each other, can be combined together into one system by connecting to several **SLIDE LINK** adapters.

In case of using several **SLIDE LINK** adapters, which are not working in the existing Wi-Fi network, one of them has to operate in the **AP** mode and the rest in the STA mode. Only one **SLIDE LINK** adapter in the **AP** mode can work in the network. Otherwise the **SLIDE LINK** adapters in the **AP** mode will not communicate with each other.


4.3. System based on an existing Wi-Fi network

All **SLIDE LINK** adapters operating in the **SLIDEKAMERA** system may use the local Wi-Fi network. In order to set up such a configuration all the **SLIDE LINK** adapters have to be configured in the **STA** mode.

The communication of all the devices in the system will be enabled only if all the **SLIDE LINK** adapters are connected to one and the same Wi-Fi network. It can be any network, which is working in the area where the **SLIDEKAMERA** system is supposed to work.
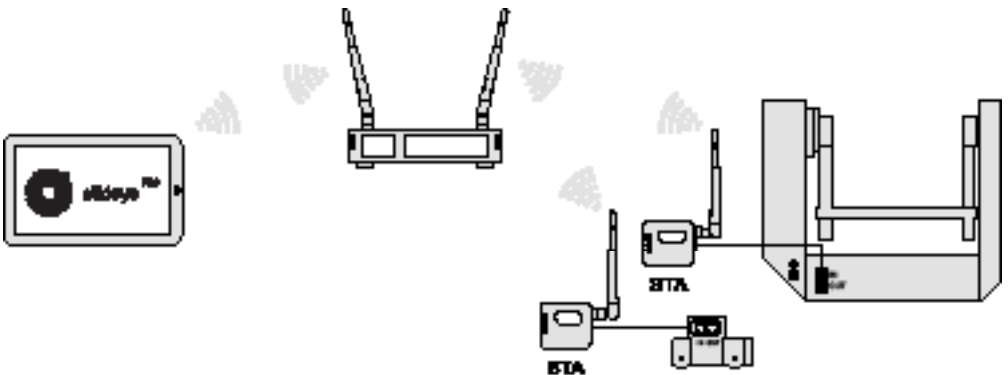
5. Starting work with SLIDE LINK adapter

In order to start work of the **SLIDE LINK** adapter with the **SLIDEKAMERA** device system it is necessary:

- To connect the **SLIDE LINK** adapter with the provided cable to the IN input of the any chosen device,
- To connect the next device (it there is any) by connecting its IN input with the OUT input of the previous device,
- To connect the devices to the power supply: connect them to a battery or power supply unit; the **SLIDE LINK** adapter does not require separate power supply – it is powered by the device to which it is connected.
- To connect the tablet with the Wi-Fi network:

SLIDE LINK in the AP mode	Connection based on an existing Wi-Fi network
Connect the tablet with the network, established by the **SLIDE LINK** adapter	Connect the tablet with the network to which the **SLIDE LINK** adapter is connected.

- Launch the **Slideye PRO** control application on the tablet. Press the "DETECT DEVICES" key on the main screen; the connected devices will be detected.
- In the **Slideye PRO** application press the key „MODES" and select the desired mode.

From that moment you can control the device or the whole system, to which the **SLIDE LINK** adapter was connected, with the **Slideye PRO** application.

If instead of the tablet with the **Slideye PRO** application you are using the **SLIDEKAMERA** hardware controller equipped in Wi-Fi connection, you need to connect it accordingly to the included instruction manual.

6. EasyConfig – configuration of the SLIDE LINK adapter

The **SLIDE LINK** adapter can be configured by the integrated **EasyConfig** site. It enables to change the operation mode of the adapter, the name of the network and the password, as well as the advanced settings. With the **EasyConfig** site you can also acquire information on the present software version and the serial number of the device.

The website can be accessed in two ways: via the device's configuration mode or without it. For the second way you will need the **SLIDE LINK** adapter's IP address.

6.1. Opening the EasyConfig site – configuration mode

- Press and hold for more than 30 s the CONFIG button on the **SLIDE LINK** adapter,
- Using a tablet, smartphone or a computer find the EasySlidekameraConfig network and connect to it. This network does not require a password.
- Open an Internet browser and go to http://10.0.0.1
- The browser will display the **EasyConfig** site.

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6.2. Opening the EasyConfig site without the configuration mode

In order to enter the **EasyConfig** configuration site you do not have to switch the adapter to configuration mode.

To open it you just have to enter the IP address of the **SLIDE LINK** adapter into the Internet browser of the tablet, smartphone or computer, connected to the same Wi-Fi network.
        If the adapter is in the **AP** mode, its IP is 10.0.0.2. In the **STA** mode the IP address may be various.

        It can be determined in the **Slideye PRO** application on a tablet, connected to the **SLIDE LINK** adapter. On the main screen ("DASHBOARD") you need to press the settings key [1].
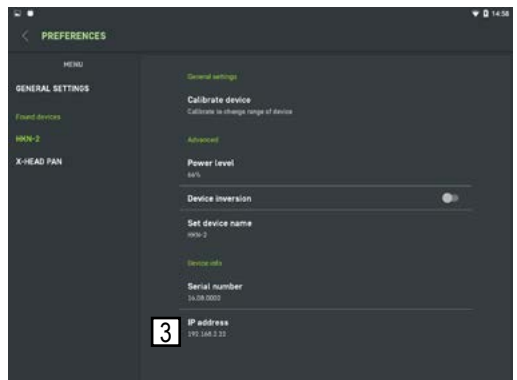
Then you need to choose any device connected to the **SLIDE LINK** adapter [2].
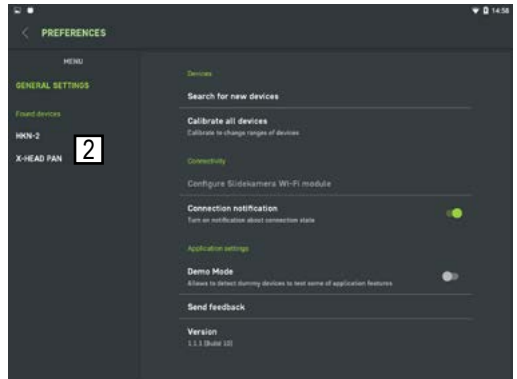
        A site with its technical parameters will open, including the **SLIDE LINK** adapter' IP address, to which the device is connected [3].
You just need to click it in order to open the Internet browser's window with the configuration website.

        If a tablet with the **Slideye PRO** application is not used for controlling the **SLIDEKAMERA** system, but a hardware controller with Wi-Fi connection, then it is necessary to check in the instruction manual of the controller whether it will help to determine the IP address of the connected devices.
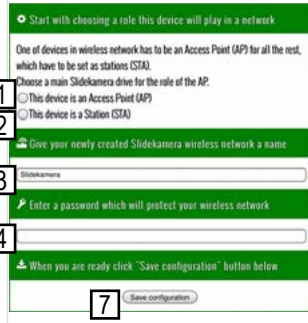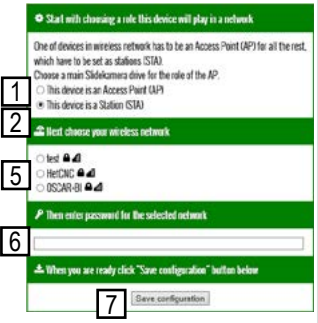
6.3. Configuration of the SLIDE LINK adapter by EasyConfig site

You may configure the **SLIDE LINK** adapter with the EasyConfig site as a Access Point (**AP**) or Network Client (**STA**):

- Choose the desired operational mode, checking the appropriate box: **AP** [1] or **STA** [2],
- Provide the parameters of the Wi-Fi network:

AP	STA
Enter the name of your network [3], enter the password [4] to be used by the devices, connecting with the **SLIDE LINK** adapter.	Select the network [5], with which the **SLIDE LINK** adapter is supposed to connect with and enter the password [6] for this network.

- Save the configuration by pressing the "Save configuration" button [7],
- The **SLIDE LINK** adapter will restart in the new configuration.

7. EasyConfig – advanced settings

To go to advanced settings you have to go to the SLIDE LINK adapter's configuration site, entering the address http://<adres_IP>/advanced.htm, e.g: http://10.0.0.2/advanced.htm.

7.1. Changing the Wi-Fi channel of an adapter in AP mode

There are places where there are many Wi-Fi networks available. Sometimes on the same channel there can be several other networks operating and they will disturb the operation of the **SLIDE LINK** adapter. In such case it is worth checking which Wi-Fi are the least burdened by other networks and manually choose the best channel.
In order to check this you may use any third party application for mobile phones.

On the website http://<adres_IP>/advanced.htm choose from a drop-down list [1] the desired Wi-Fi channel by clicking the key "Save changes" [2].

The **SLIDE LINK** adapter will restart and take up work on a new channel.

7.2. SLIDE LINK adapter software update

SLIDEKAMERA cares for the quality of its products and the comfort if their usage, that is why it is sometimes necessary to update the **SLIDE LINK** software.

The software update may introduce functional improvement and correct the discovered errors. Therefore it is worth checking the software versions of the used **SLIDE LINK** adapter and get acquainted with the description of the changes in the newest version (available with the software) and update the software, if necessary.

The **SLIDE LINK** adapter allows for an independent update of the firmware and the **EasyConfig** configuration site. The version numbers of the currently installed firmware and the **EasyConfig** website are provided on the bottom of this page. You will also find there the device's serial number, which may be useful in case, when the **SLIDEKAMERA** technical support helps the User with solving problems with the SLIDE LINK adapter.

7.3. Checking the software version

When you need to check the software version of the **SLIDE LINK** adapter, just open the **EasyConfig** configuration site. At the bottom, in consecutive lines, you will find numbers of the version of the integrated software, the **EasyConfig** site/page and the device's serial number.

7.4. The software updating procedure

• Download the proper update file:

EasyConfig	firmware
File with IMG extension (e.g. website-skec54.img)	File with IMZ extension (e.g. i2128d811d04BCOM.IMZ)

• Initiate the configuration mode of SLIDE LINK adapter,
• Open the http://10.0.0.1/update.htm website in the browser of your tablet/computer (if you know the address of the SLIDE LINK adapter's IP, you may open the website http://<adres_IP>/update.htm without proceeding to the configuration mode).

• Click on the "Choose file" key in the proper box:

EasyConfig	firmware
Use box "Website to upload" [1]	Use box "Firmware imz file to upload" [2]

• Indicate a correct update file
• Click on "Open", then "Submit" in proper box
• The update will commence
• Wait until the software updates and the adapter restart.

8. Troubleshooting

The SLIDE LINK adapter is not operating and none of the LEDS are not flashing (including POWER)

If the POWER LED or any other LED on the **SLIDE LINK** module is not flashing – the device is not powered.

Perform the following steps in order to eliminate errors:
• Check if the **SLIDE LINK** adapter is connected to the **SLIDEKAMERA** device, which is powered,
• Check if the supply cable is not damaged,
• Try using another Ethernet cable.

If despite of these steps the device is not working, the very **SLIDE LINK** adapter may be damaged. You need to contact the **SIDEKAMERA's** technical support.

There's no connection with SLIDE LINK, SERVICE LED is flashing.

The **SLIDE LINK** adapter is in service mode, where normal operation is not possible. It is necessary to switch it to operation mode. To solve this problem you need to perform another configuration of SLIDE LINK adapter.
You will find a detailed description of the device's configuration in section 7, p. 6.

The Slideye PRO application does not detect the devices connected to the SLIDE LINK adapter.

Immediately after clicking the "DETECT DEVICES" key in the **Slideye PRO** application both TX and RX LEDS by the HET-BUS socket (to which the cable, linking the **SLIDE LINK** adapter with the **SLIDEKAMERA** devices is connected) should blink simultaneously for a while. If not, a problem has occurred.

It needs to be noted which of the LEDS is not flashing:
- If none (TX and RX), it might mean that the tablet with the **Slideye PRO** application is connected to a different Wi-Fi network than the **SLIDE LINK** adapter. Check the problem and connect the tablet to the same network as the **SLIDE LINK** adapter, if necessary.
- If the RX LED is not flashing and the TX is blinking, it means that the device, connected to the **SLIDE LINK** adapter is in the process of answering the questions, sent by the **Slideye PRO** control application. In this case end operation of **Slideye PRO** application, re-connect with the same Wi-Fi network, in which the adapter is working and restart the application. Then re-attempt detection of devices, clicking on "DETECT DEVICES" key on its main screen.

◄ **TIP**

You can check the name of the network to which the tablet is connected in the tablet's settings or in the Slideye PRO application, on the main screen. The name of the Wi-Fi network, to which the tablet is connected, is displayed there.

A momentary lack of movement fluidity/motion fluidity

If moments occur when the fluidity of movement is upset, it means that the wireless transmission was disrupted.

A wireless transmission, as opposed to wired transmission, is subject to disruptions by other devices, working in the same range of frequency, like e.g. other wireless networks, devices, which use Bluetooth and others, operating in 2,4GHz frequency.

In order to eliminate the problem you need to try one of the following ways:
- Move away the tablet from the **SLIDE LINK** adapters for a distance not smaller than 0,5 m,
- Check, if the Wi-Fi network in which the **SLIDE LINK** adapters are working, is not disrupted by other networks, working in the same or close channel; if necessary, change the SLIDE LINK adapter's channel in the AP mode. A detailed description of the advanced configuration can be found in section 8, p. 8

The wireless transmission (which is quite natural) is subject to disruptions from transmitters of strange devices, working in the same frequency. Such disruptions may have a negative influence on its stability and result in momentary losses of motion fluidity of the **SLIDEKAMERA** system.

In cases where the risk of losing the motion fluidity is unacceptable you need to consider using a wired connection.

◄ **TIP**

In case of tablets with Android system it is possible to use a wired adapter to connect the **Slideye PRO** application with the **SLIDEKAMERA** devices.

9. Technical specification

Weight:	0,7 kg
Supply voltage:	9-17V
Power consumption	max. 180mA with 9V power supply and broadcasting in 802.11b mode
Antenna socket:	RP-SMA
Wi-Fi standards:	802.11b/g/n (2,4GHz)
Wi-Fi modes:	**AP**, **STA**
Compatibility:	**SLIDEKAMERA** products based on the **HET-BUS** protocol

10. Terms of warranty

All Slidekamera products are covered by the manufacturer's warranty for a period of 12 months from the date of sale. Warranty covers production faults and material defects, which resulted in the product malfunctioning. Warranty covers the repair, or, if the repair proves impossible, replacement of the product with a new one. However, the cost of repair of the product cannot overrun the catalogue value of the product. The warranty does not cover damage and / or product defects resulting from the improper usage, as well as not following product maintenance specifications.

The warranty excludes:
• unauthorized attempts to repair or modify
• mechanical damage caused during transport and operation of such features as scratches, dents, pits, dirt, etc.
• flooding, moisture

To obtain warranty service the purchaser should deliver the damaged product together with a proof of purchase or proof of payment (invoice, cash register receipt). The product will be accepted for warranty service on condition, that it is delivered with correctly filled in complaint form and properly protected during transport.

The complaint form is available for download at: www.slidekamera.com.

After the warranty period is exceeded any spare parts can be purchased directly from the manufacturer or in any selected points of sale.

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