Product-Notes
Manual

Article No.: 843521

RFsmart

Deko-Light RF-smart, Spot, 100-240V AC, 2700-6500K, 25W, IP65/IP44

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Dear customer,

thank you for deciding to purchase our product. The product fulfils the requirements of effective European and national guidelines.
To maintain the condition of the product and to ensure safe operation, you - as the user - must observe the product notes and the operation manual! They contain important information for the start-up and handling. It is important, therefore, that these documents are archived carefully for referring to information at a later stage.aufbewahren.

1. Safety Instructions

We are not responsible for any property damage or personal injury caused by failure to observe these productnotes and manual, improper handling or unauthorised modifications.

Make sure that the item has not been damaged during transport before putting the light into operation. It maynot be operated if there are any damages to electrical parts.

It may only be operated once removed from the packaging.

The type plate must not be removed.

Make sure the electrical specifications for the connection lines correspond with the specifications given on thenameplate of this product.

Make sure that the cables and plugs are not subject to tension or torsional forces and do not bend the cables.Protect all cables and insulation against possible damages.

Do not allow the product to come into contact with extreme heat or naked flames.

The product must not be covered with objects (decorations) or thermally insulating coverings /similar materials.

Only use the enclosed mounting material if it is suitable for the mounting surface.

Before disposal of the packaging material make sure that all components are removed.

Keep packaging material away from the reach of children and pets. The packaging contains small parts thatmay be swallowed by children.

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2. Proper Use

This product is only intended for lighting purposes and may only be operated on normal or non-flammable surfaces.

It can be used outdoors and indoors.

3. Care

Repairs may only be carried out by an electrical specialist.

Disconnect the entire product from the mains first and allow it to cool down before cleaning or maintaining.

Use a dry or slightly moistened cloth for cleaning.

Never use any chemicals, flammable cleaning agents or abrasives. These may cause damage to the surface coating and/or the insulators.

4. Faulty Function

Are the lights to be controlled ready for operation/connected correctly?

Check the connected cables (check voltage supply)

Disconnect the dimmer/lights from the power supply for approx. 30 seconds

Is the RF remote control connected/paired to the lamp?

5. Storage and Disposal

Used electronic devices must be brought back to public collection points and must not be disposed of as household waste.

Storage in a dry and clean environment. Do not strain the product mechanically during storage.

6. Purchased parts package

- 1x Deko-Light RF-smart Spot, 100-240V AC, 2700-6500K, 25W, IP65/IP44
- 1x Quick-Manual included

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7. Technical data

Operating voltage:	100-240V~ 50/60Hz
Performance:	25,0W
Power consumption:	25,0W
Luminous flux:	1700lm
Color temperature:	2700-6500k
Light color:	RGB + Warmweiß + Kaltweiß
Beam angle:	15 Grad
Energy efficiency class:	F
Energy consumption:	25kWh/1000h
Power Factor:	0,9
Protection class:	I
IP-Protection class:	IP65/IP44
Lifetime:	50.000 Stunden
Working temperature:	-20 bis +45°C
Storage temperature:	-30 bis +70°C
Controllable with:	RF-smart Fernbedienungen (nicht im Lieferumfang)
Frequency:	Zigbee 3.0 (Gateway notwendig)
Outdoor range:	bis zu 30m
Dimensions (LxWxH):	170 x 65 x 180mm
Weight:	1005g
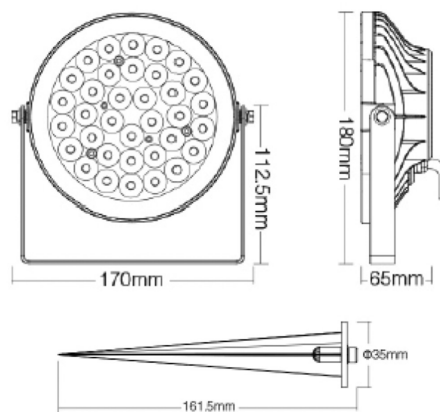
8. Product features

- 0~100% stepless and flicker-free dimming
- 16 million adjustable colors
- Last-state memory (last setting is retained after a power failure)
- Controllable/compatible with all RF-smart radio remote controls
- Controllable/compatible with all Zigbee 3.0 components
- RF repeater function (remote control range is extended by up to 30 m outdoors)
- Light source supports the synchronization of automatic programs and thus ensures a simultaneous program sequence of different light sources and/or lamps/floodlights/dimmers

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9. Installation instructions

The Spot is suitable for use and operation in outdoor and indoor areas.

Please observe the applicable installation regulations, in particular the electrical regulations for installation in your country. Always install the light at the prescribed minimum distance from swimming pools, water features, etc. Also pay attention to the split protection classes
(floodlight= IP65, mains plug= IP44).

When using a ground spike (included in the scope of delivery), ensure sufficient anchoring in coordination with the existing soil.

Also ensure that the radiator is ventilated underneath or behind so that any heat generated can be dissipated into the environment and the radiator does not overheat.
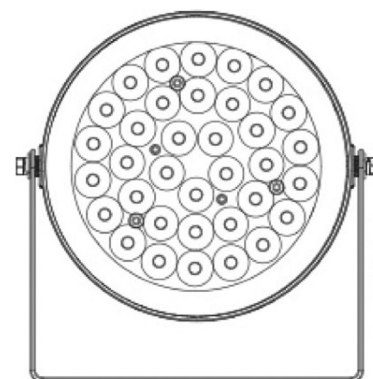
10. Remote control compatibility

The floodlight can be controlled and connected with all available RF-smart remote controls. The floodlight can be controlled by up to 12 different RF-smart remote controls at the same time. In the first step, check the compatibility of the remote control.
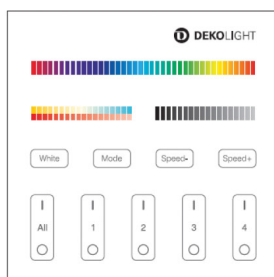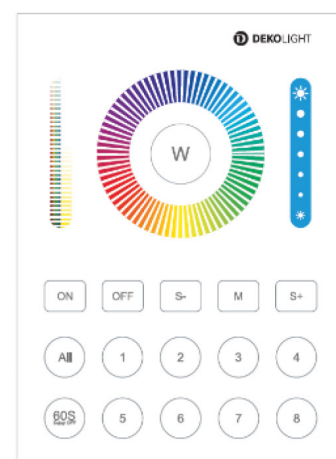
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11. CONNECT Spot with remote control

The RF-smart Spot must first be connected so that it can be controlled with a remote control. If you want to control the floodlight with several remote controls, these must be connected individually and one after the other.

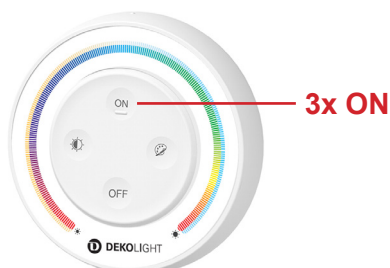### 1. Step: Activate RF learning mode:

Disconnect the Spot from the power supply for 10 seconds and then switch it on again
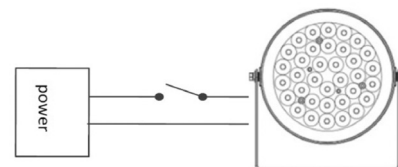
2. Step: CONNECT the Spot:

Remote control type A:
Briefly press 3 times within 3 seconds
"ON" button on the remote control. At a
If the pairing is successful, the light bulb flashes 3x.
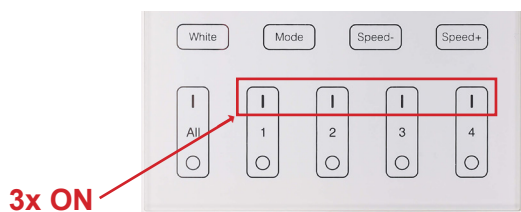

3x ON

Remote control type B:
Briefly press the on button "I" of the desired zone (1-8) 3 times within 3 seconds. If the pairing is successful, the light bulb flashes 3x.
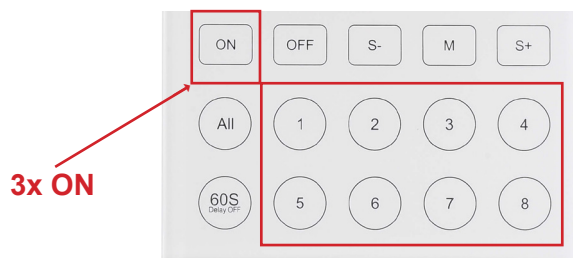

3x ON

Remote control type C:
Press the on button "I" 3 times within 3 seconds the desired zone (1-4). If the pairing is successful, the light bulb flashes 3x.

3x ON

Remote control type D:
Within 3 seconds, first press the zone button (1-8) and immediately afterwards press the "ON" button 3 times. If the pairing is successful, the light bulb flashes 3x.

3x ON

TIP:
If you are carrying out this process alone, pick up the remote control or remove it from the mounting plate. This gives you flexibility when learning and can easily adhere to the time frame for the process.

If the process is not successful within 10 seconds, start again from step 1.

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12. Disconnect Spot from remote control

If you no longer want to control an RF-smart floodlight with the corresponding remote control, you must disconnect the remote control from the paired floodlight. If several remote controls are paired with one floodlight, you must disconnect the respective remote controls individually and one after the other.
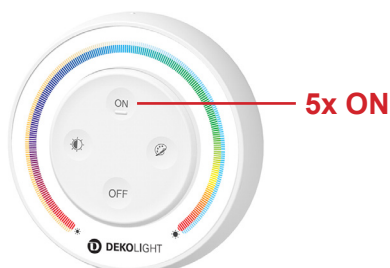
1. Step: Activate RF learning mode:

Disconnect the lamp from the power for 10 seconds and then switch it on again
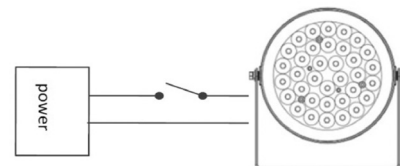
2. Step: DISCONNECT remote control:

Remote control type A:
Briefly press the „ON" button on the remote control 5 times within 3 seconds. If the separation is successful, the light bulb flashes 10x
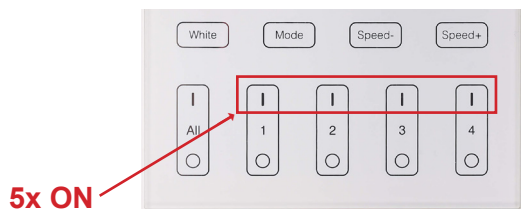

5x ON

Remote control type B:
Within 3 seconds, press the on button "I" of the zone to which the lamp is connected 5 times. If the separation is successful, the light bulb flashes 10x.

5x ON

Remote control type C:
Within 3 seconds, press the on button "I" of the zone to which the lamp is connected 5 times. If the separation is successful, the light bulb flashes 10x.
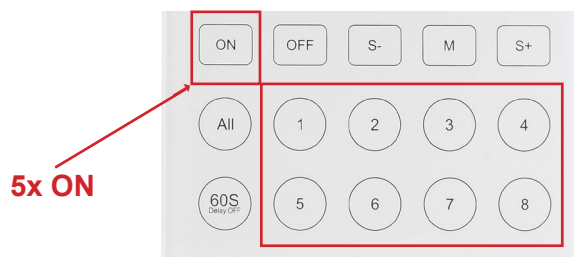

5x ON

Remote control type D:
Within 3 seconds, first press the zone button to which the lamp is connected and immediately afterwards press the "ON" button 5 times. If the separation is successful, the light bulb flashes 10x.


5x ON

TIP:
If you are carrying out this process alone, pick up the remote control or remove it from the mounting plate. This gives you flexibility when learning and can easily adhere to the time frame for the process.

If the process is not successful within 10 seconds, start again from step 1.

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13. Color settings of the Spot

To adjust the RGB color, color saturation, color temperature and brightness, follow the instructions on the connected remote control.

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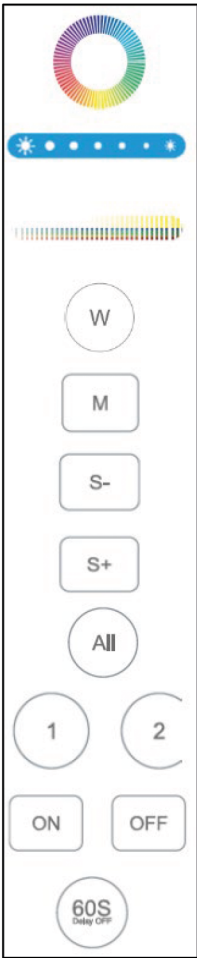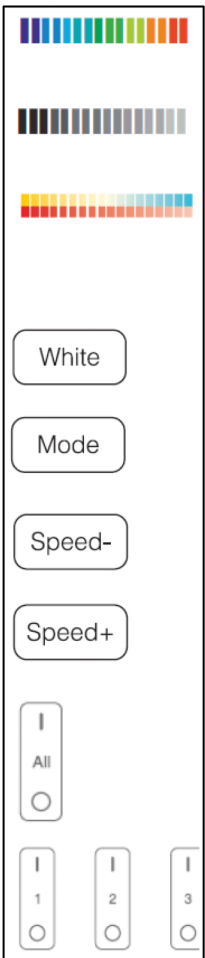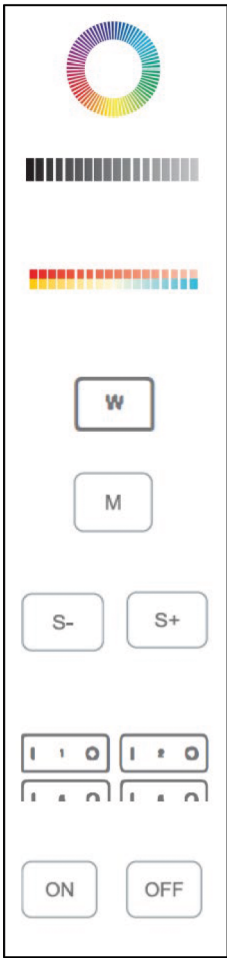
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14. Automatic programs

Identical programs that can only be accessed with RF remote controls are preinstalled in RF-smart bulbs, lamps (floodlights, spots) and LED dimmers. The programs are permanently saved and cannot be changed.

To call up the programs, follow the respective operating instructions for the connected remote control. In most cases, the program selection is done by pressing the "M" button several times. The running speed of the program can also be adjusted using the "S+" and "S-" buttons.

There are 2 automatic program blocks (A/B) available, with program list A being preset at the factory. If you want to use programs from Block B, you must activate them, if necessary for each lamp separately and as listed below.

FACTORY SETTING

A	Program/Description	Brightness Saturation Speed
1	Random color fade	ADJUSTABLE
2	Color fading 4 colors (blue, pink, red, green)	
3	Color fading 4 colors (white, green, blue, pink)	
4	Color fading 3 colors (green, blue, pink)	
5	Color fading 3 colors (red, green, blue)	
6	Color fading 3 colors (blue, red, white)	
7	Color fading 3 colors (blue, white, pink)	
8	Party	
9	Slow color fade	

B	Program/Description	Brightness Saturation Speed
1	Color fading 7 colors (green, blue, white, pink, red, pink, yellow)	ADJUSTABLE
2	White light appear/fade (0%-100%-0%)	
3	Color change RGB appear/fade. (0%-100%-0%)	
4	Color changing 7 colors (red, green, blue, yellow, pink, turquoise, white)	
5	Random color change	
6	Red effects program (0%-100%-0% + flash 3x)	
7	Green effect program (0%-100%-0% + flash 3x)	
8	Blue effects program (0%-100%-0% + flash 3x)	
9	White effects program (0%-100%-0% + flash 3x)	

Change/selection of program blocks

A: Use the color wheel to set a color (e.g. green) and then **quickly press the "S+" button 5 times** the remote control. If the lamp **flashes blue 3x**, program block A has been activated.

B: Use the color wheel to set a color (e.g. green) and then **quickly press the "S-" button 5 times** the remote control. If the lamp **flashes yellow 3x**, program block B has been activated.

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15. RF-Repeater functions

RF-Range:
An RF-smart lamp can transmit the control signals from an RF remote control to another RF-smart device within up to 30m if it is also within range. Theoretically, the range of a remote control is extended indefinitely. Signals from up to 12 remote controls can be supported simultaneously.

RF-Programmsynchronisation:
If identical automatic programs (color fades, etc.) run in several lights/floodlights/spots at the same time, these are also passed on via the RF signal and are therefore automatically synchronized.

RF signal transmission & program synchronization

Range up to 30 m   Range up to 30 m   Range up to 30 m
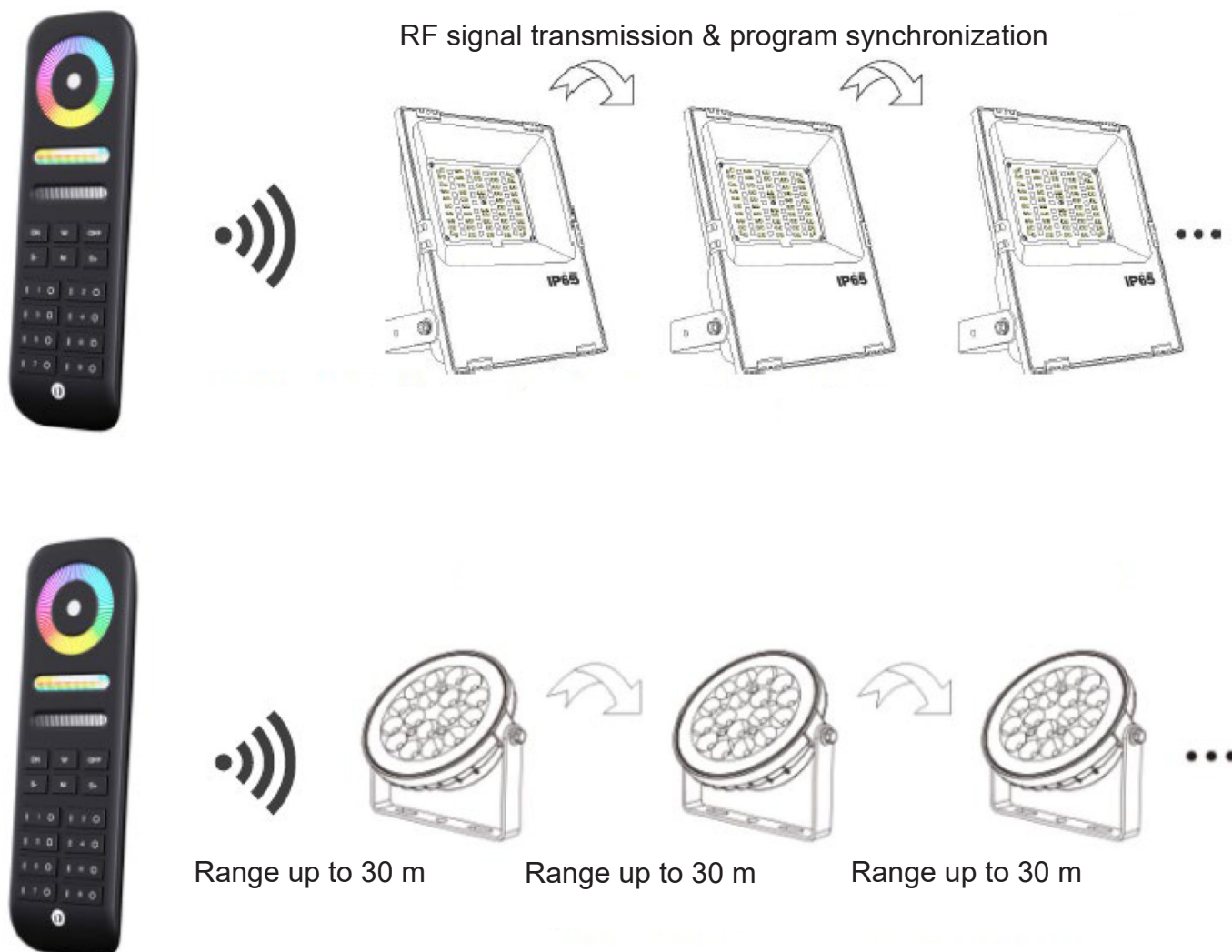
IMPORTANT:
To function properly, all lights/floodlights/spots must be connected to the same remote control and within the same zone. For automatic program synchronization, it must also be ensured that the same automatic program is set for all RF-smart lights involved.

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16. Activate Zigbee coupling

Below we will show you how to start the coupling/pairing mode of the RF-smart Spot:

1. Connect the light to the power supply

2. Then switch the power supply OFF and ON again 3 times at short intervals. The floodlight/spot is then in Zigbee pairing mode.

   Now immediately start the pairing in the APP (as described under point 19), as the mode is automatically deactivated after approx. 20 seconds for security reasons. is deactivated automatically.

   If the light does not pair with Zigbee, switch the spotlight off for 30 seconds and then start again at step 1.
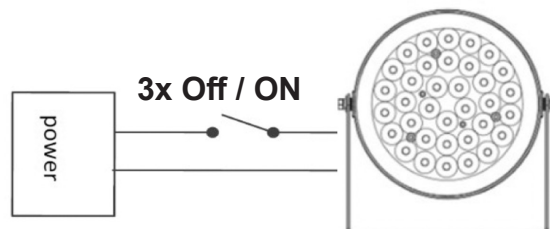
16. Control with Zigbee 3.0

RF-smart components with integrated Zigbee can be controlled via a corresponding gateway and Internet access with Zigbee 3.0-compatible apps available on the market.

Examples of the most popular apps: Tuya, Amazon Echo (Alexa), Google Assistant, Home Connect Plus and many more.

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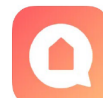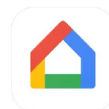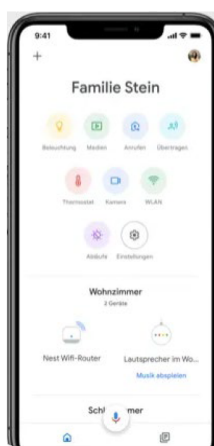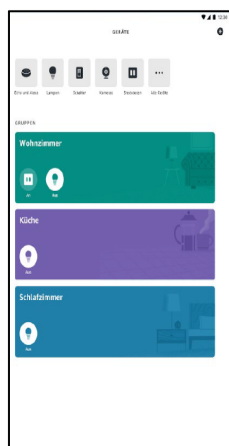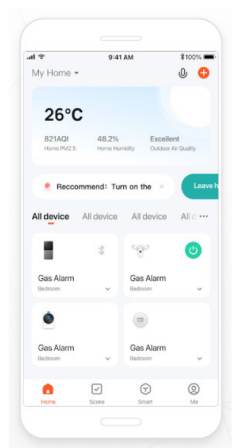
17. Requirements for control with Zigbee 3.0

To ensure that all devices in a Zigbee smart home system can communicate reliably with each other, a uniform wireless standard and a control center are required. This control center also establishes the connection to the Internet and to the respective service provider (Amazon Echo, Google Assistant, Tuya, etc.). In principle, it does not matter whether this control center, also known as a gateway/hub/bridge, is separate or already integrated into another device.

What is basically necessary for control?

1. Router (free LAN connection or WiFi router depending on the gateway used) with an existing and unrestricted connection to the Internet

2. Zigbee 3.0 gateway (see following variants under point 18)

3. Installed APP of the service provider (Alexa, Google Home, Tuya, Home Connect Plus etc.)

4. User account and access data of the service provider

IMPORTANT: Before purchasing a gateway, always check whether it complies with the Zigbee 3.0 standard AND whether it is compatible with your desired control platform (e.g. Amazon Echo, Tuya, Google Assistant, etc.). Information on this can be found in the product description, operating instructions, the manufacturer's website or, if necessary, via their customer support.

19. Different types of gateways / hubs / bridges

1. Zigbee 3.0 gateway integrated

Examples: Amazon Echo Plus 2nd gen, Echo 4th gen, Echo Studio, Echo Show 2nd gen (as of 11-2023)

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2. Zigbee 3.0 gateway external, with wired router connection via LAN cable (RJ45):

Gateway mit LAN-Anschluss (RJ45)	Netzwerkkabel (RJ45)	Router mit freiem RJ45 Netzwerkanschluss

3. Zigbee 3.0 gateway external, with wireless router connection via WiFi:

4. Gateway mit WiFi	Router mit WiFi

## 20. Integrate RF-smart Zigbee light with Amazon Echo (as of 11-2023)

Due to the large number of available providers, we would like to show you below how to integrate an RF-smart light or dimmer using the example of Amazon Echo (Alexa) in a step-by-step guide. Please note that the individual views or steps may differ due to regular app updates or different operating systems (iOS / Android).

Preparations:

1. Set up an Amazon account if you do not already have one.
2. Install the Alexa app on your smartphone.
3. Install the Amazon Echo with Zigbee gateway, if necessary with an external gateway, and set it up completely and ready for operation.
4. Ensure that the gateway is connected to the Internet.
5. Install the corresponding RF-smart lights/dimmers ready for operation.

   In addition to the Zigbee control, we recommend always having an additional RF remote control available to enable local control via remote control in the event of internet problems. After commissioning the light and pairing it with the remote control, check whether the light can be controlled accordingly and is ready for operation.

6. Now start the app and proceed as described below.
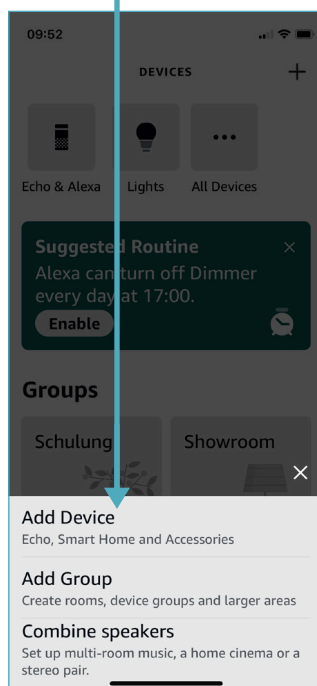   (Operating system of the test setup iOS as of 06/2023)

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6.1.

Start adding a new component under „Devices" with „+"
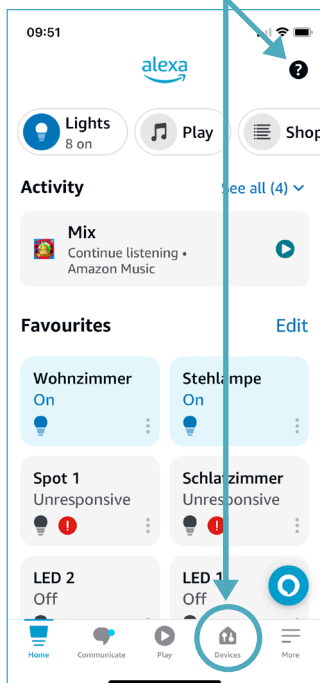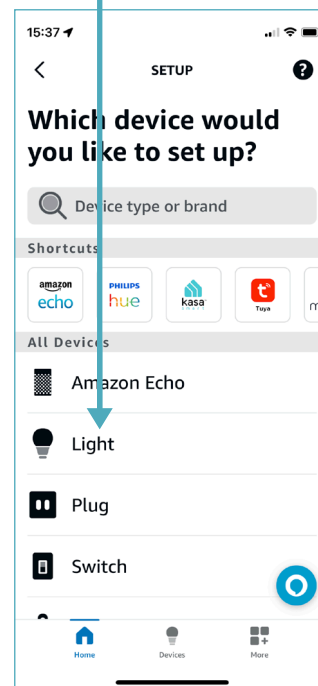

6.2.

Select „Add device"

6.3.
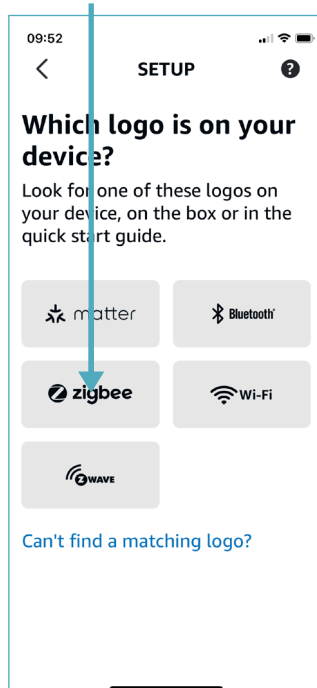
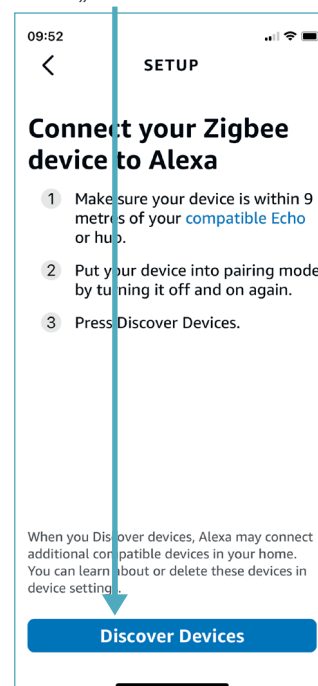Select „Light"

6.4.

Scroll all the way down and select „Other"

6.5.

Select „Zigbee"

6.6.

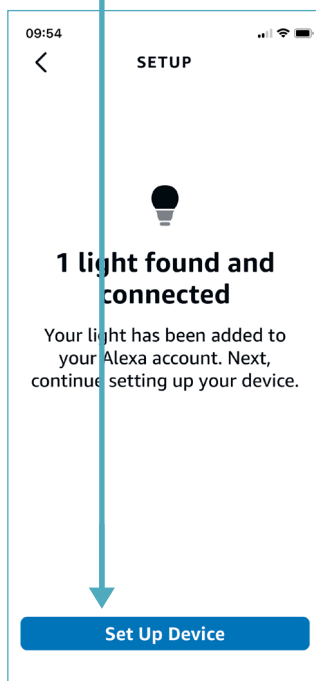Switch on dimmer/light and activate pairing then select „Device search"

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6.7.

Let the automatic search
run to the end

09:53

Alexa is looking for
devices to connect...

This may take up to a minute
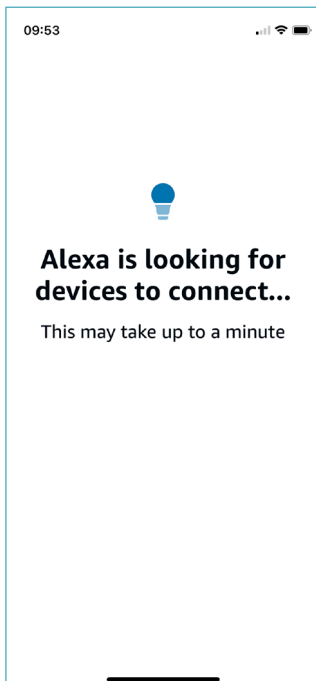
6.8.

After identification, select
„Set up device"

09:54

‹   SETUP

**1 light found and
connected**

Your light has been added to
your Alexa account. Next,
continue setting up your device.

Set Up Device

6.9.

Select the desired group
from Select existing list

09:54

SETUP

Where is your light?

Add your device to a group so you
can control devices together and
say things like, "Alexa, turn on the
Living Room".

Your Groups

Schulung

Showroom

Common Groups

Bedroom

Living room

Skip
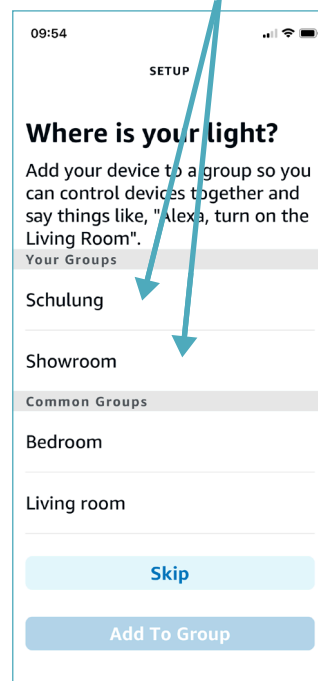
Add To Group

6.10.

Confirm selection with
„Add to group"

09:54

SETUP

Where is your light?

Add your device to a group so you
can control devices together and
say things like, "Alexa, turn on the
Living Room".

Your Groups

Schulung

Showroom   ✓

Common Groups

Bedroom

Living room

Skip

Add To Group
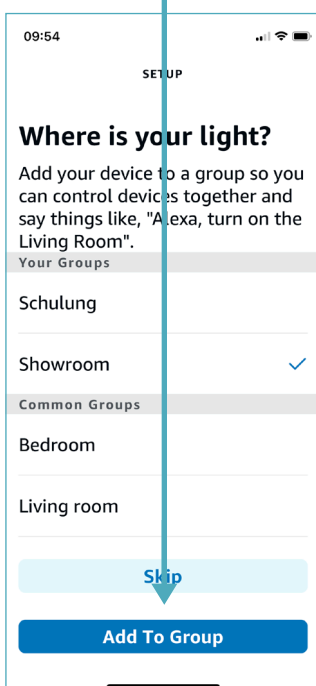
6.11.

Input with „Next"
confirm

09:54

SETUP

✓

**Zweiundzwanzigstes
Licht added to
Showroom**

Now you can refer to this
device using room name and
device type instead of
remembering the device name.

Continue

6.12.

Confirm the setup
process with „Done"

09:55

SETUP

✓

**Zweiundzwanzigstes
Licht is set up and
ready to use**

To control it, say:

*"Alexa, turn off Zweiundzwanzigstes
Licht"*

Done

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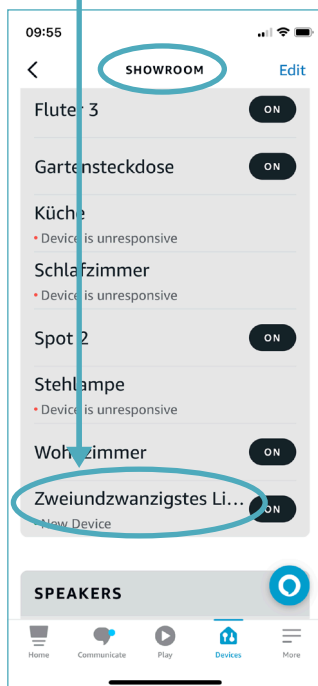RFsmart

6.13.

The light can now be selected and adjusted directly or via a group in the „Devices" menu
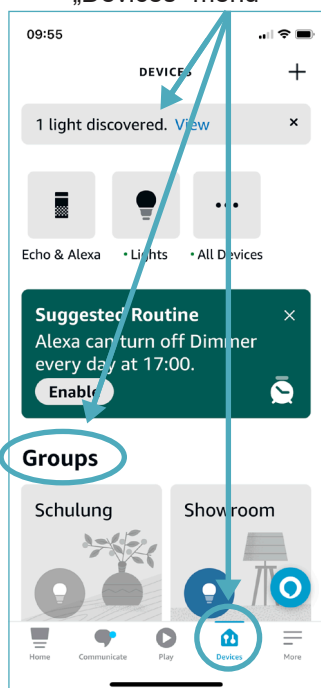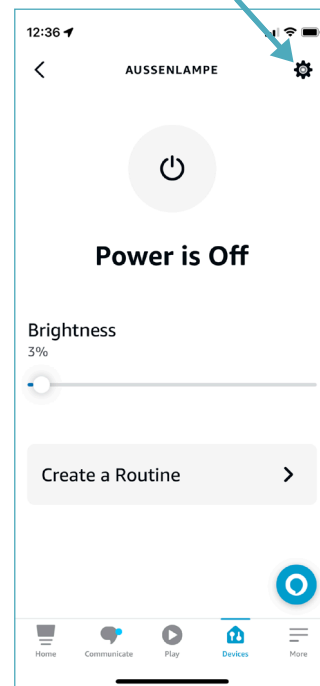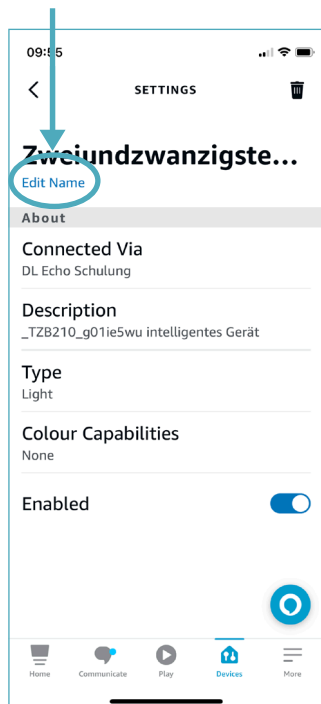

6.14.

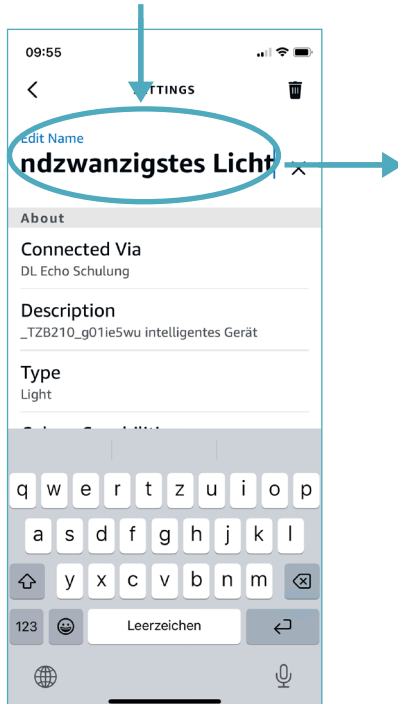Corresponding light in the menu
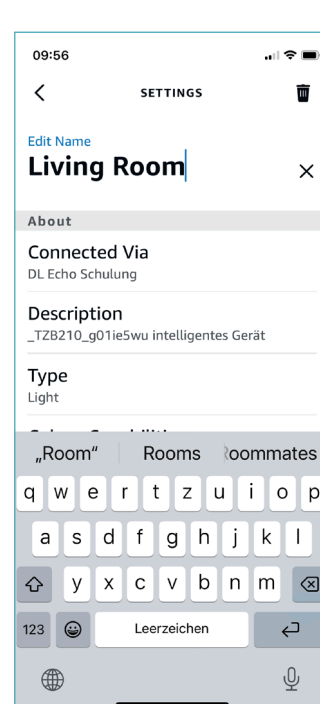

6.15.

Settings menu Select

6.16.

„Edit name" Select

6.17.

Enter the desired name of the luminaire

6.18.

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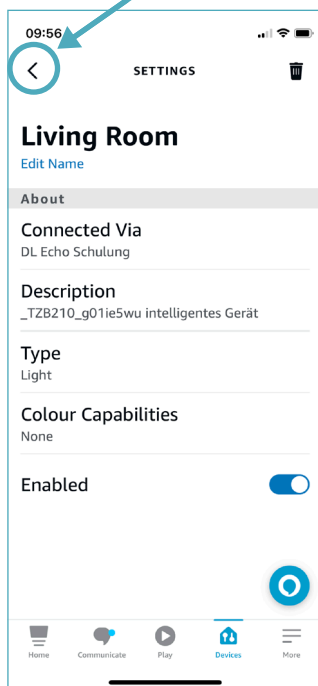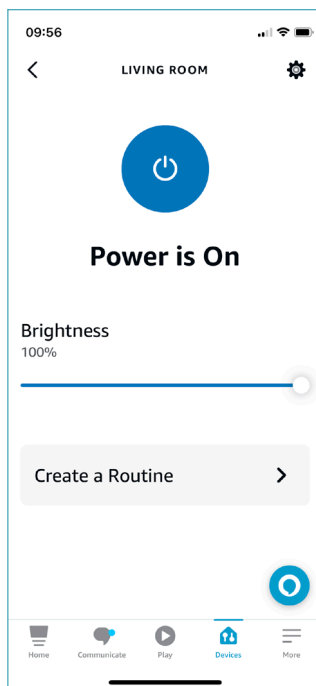
6.19.

The settings are applied via the „Back button"

6.20.

DONE!

Additional routines or so-called skills can then be set up in the main menu / device menu.

This can then be used to set up time-controlled or daytime-dependent switching processes (sunrise/sunset etc.).

Operation of the app and the lights is very intuitive. In principle, it is possible to combine individual lights into groups (e.g. living room, dining room, bedroom, etc.) All lights contained in these groups can then also be controlled together via their group name (e.g. in our example Alexa - Showroom on/off etc.). By selecting individual lights, they can then be set individually and according to possible functions (e.g. brightness, color, color temperature).

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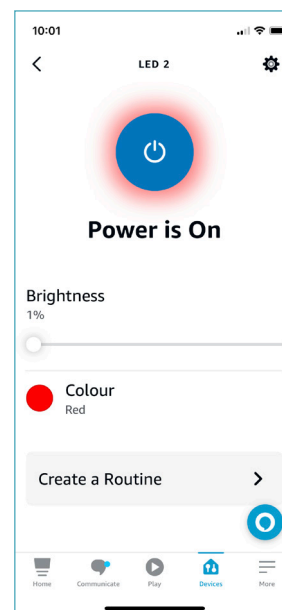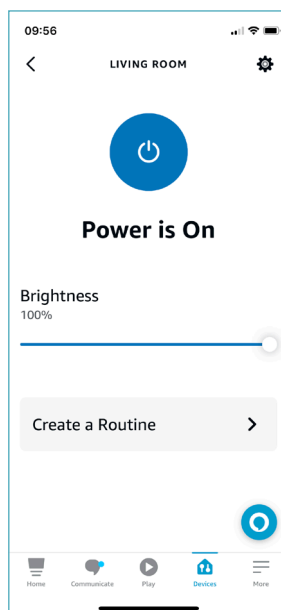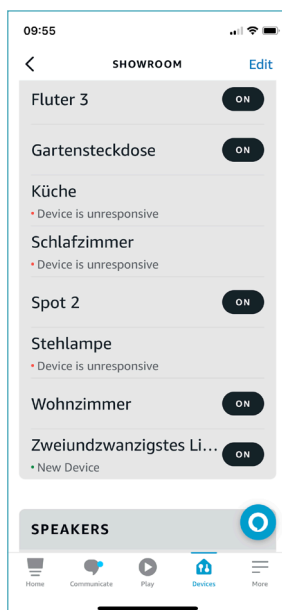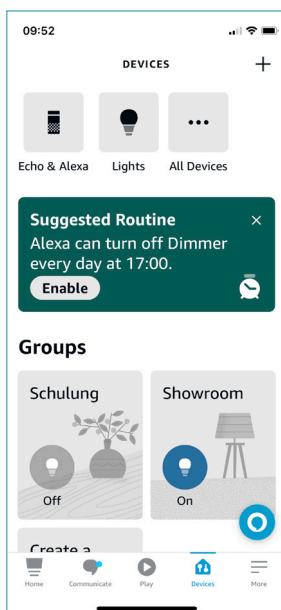
RFsmart

21. Important information on operation and troubleshooting

Things to know about RF-smart remote controls

- One remote control can be linked to several RF-smart lamps and thus control several at the same time
- An RF-smart light source can be coupled with several, even different remote controls (1, 4, 8 zones). This means that a light source can be controlled simultaneously from several locations/remote controls.
- Only the remote control functions provided by the paired RF-smart light source are supported. This means that an RGB+CCT light source can also be controlled with a single/CCT remote control, but then only the brightness and color temperature settings are possible.

Troubleshooting RF control (remote control):

- Do not use remote controls in places with a lot of metal or strong electromagnetic waves, as this significantly impairs the range of the remote control.
- Check the range by moving around the room with the remote control removed.
- If the signal LED on the remote control flashes quickly, replace the batteries (2x AAA).
- Check whether the remote control is still transmitting control signals (signal LED on the remote control flickers when pressed / if necessary, key tone for wall-mounted remote controls). Replace the batteries (2x AAA) if necessary.
- If your RF-smart light/dimmer no longer responds to the remote control and you are sure that the remote control is OK, check the power supply to the RF-smart light or the power supply to the house installation or the upstream power supply unit.
- If the power supply to the light is guaranteed, reconnect the RF-smart light/dimmer to the remote control if necessary (see „Connecting the remote control").
- If necessary, check the settings and wiring on the RF-smart light/dimmer.
- If the light of a controlled dimmer/light does not go out completely and remains dimly lit, the night light mode (assuming compatibility) may have been activated by pressing and holding the „OFF" button. To deactivate, briefly press the „OFF" button once.

Troubleshooting Zigbee control (app/voice control):

- If the RF-smart component cannot be controlled via Zigbee, first check the status in the app (online/offline)
- Check the power supply of the RF-smart light or the power supply of the house installation or the upstream power supply unit.
- If the power supply is guaranteed, check whether operation is possible using an existing RF remote control.
- Check whether a functioning Internet connection is available.
- If this is the case, check whether the Zigbee gateway (separate gateway or integrated in an Amazon Echo, for example) is connected to the Internet/WiFi and is fully functional.
- Check the service pages of the app/service providers such as Amazon Echo (Alexa), Google Assistant, Tuya, Phillips Hue etc. to see whether there is currently a fault with the service. (if necessary, Google search with the search term of the service provider: e.g. „malfunction Amazon Alexa").