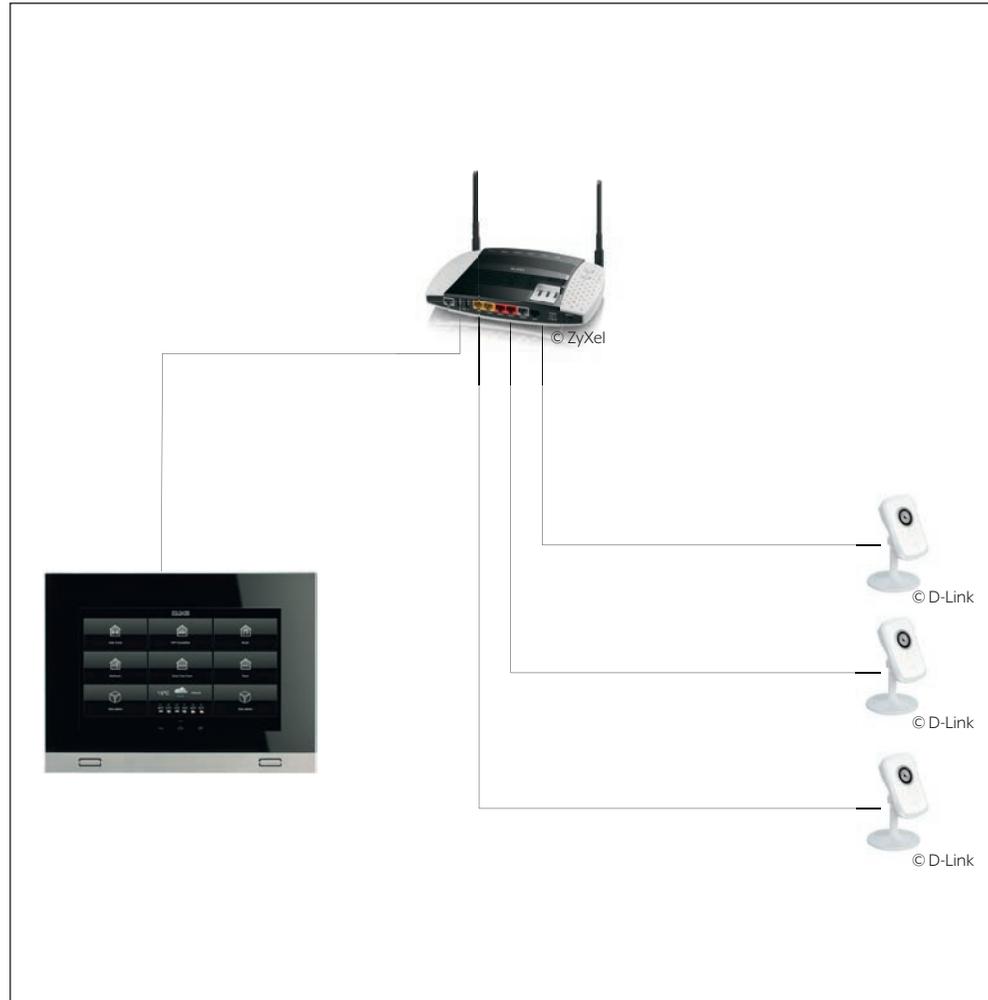# JUNG Smart Control

How to connect the IP camera

1.   Introduction

JUNG Smart Control is a universal operating and display unit for your JUNG home and building automation systems. You can use it to view individual images and video streams of your installed cameras. The prerequisite for this is a functioning network infrastructure.

This quick start guide explains the individual steps of commissioning and operation using an example.

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This quick start guide is applicable for the SC7, SC10, SC15 and SC19 devices. The adjacent illustration shows the SC10 as an example.

COMPONENTS JUNG	PART NO	QUAN-TITY
Smart Control 10	SC10	1

COMPONENTS THIRD PARTY SUPPLIERS	PART NO	QUAN-TITY
ZyXel VMG 8546	–	1
D-Link DCS-930L	–	1–6

2. Overview

If you connect your installed cameras to the JUNG Camera App, you can view the frames or also video streams on the JUNG Smart Control.

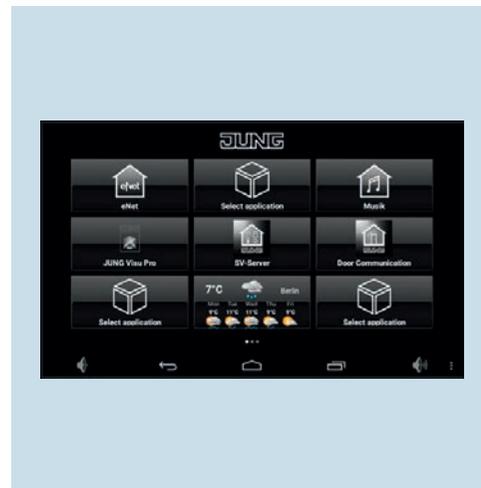The table on the right gives an overview of the necessary steps.

The individual steps are described in detail on the following pages.

3. JUNG Smart Control commissioning

3.1   First start-up

Proceed as follows for the first start-up:

1. Connect the power supply to the JUNG Smart Control via the terminal [1] and then connect it to your network via the RJ45 socket [2].

    Note: The JUNG devices SC7, SC10 and SC15 are also PoE-capable.

2. After the first start of the JUNG Smart Control, you are in the primary menu, the interface of the JUNG Launcher. Call up the App Selection by pressing and holding an application button.
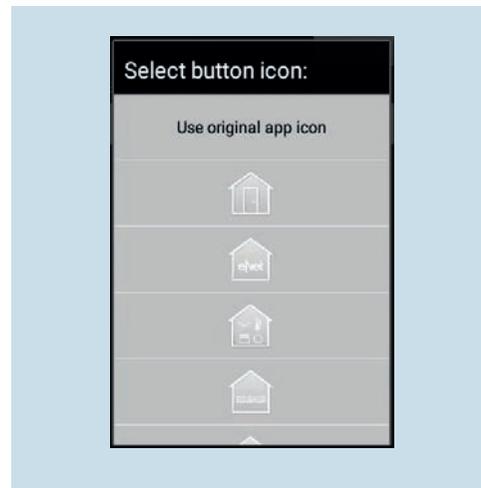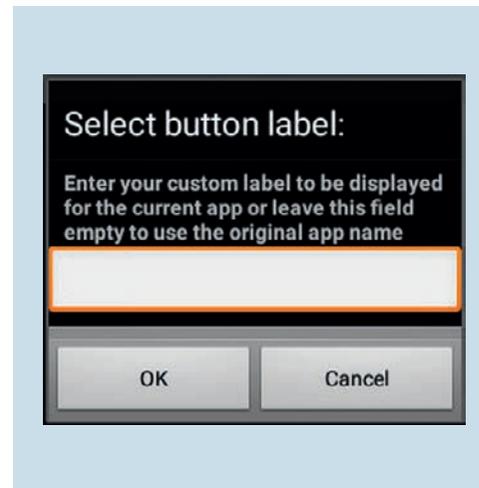
3.2 Add JUNG Camera App
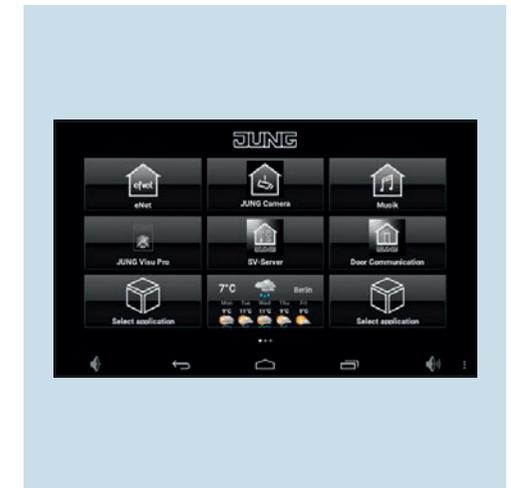
Next, you can add the JUNG Camera App in the App Selection.

1. Scroll to JUNG Camera in the App Selection and tap on the logo. This adds the application to the JUNG Launcher.

2. Either select one of the listed symbols or tap on Use original app icon.

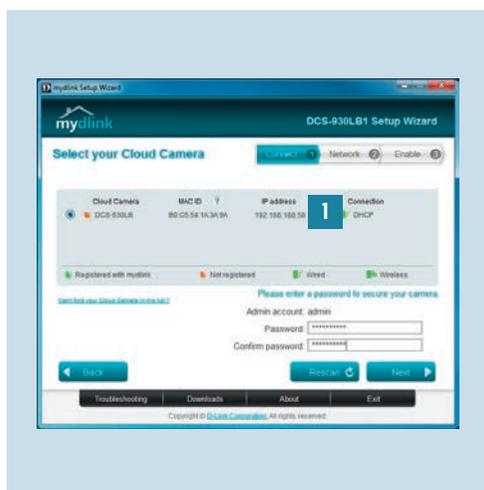3. Now you can add a personalised label (name) of the app if required. If this is not necessary, tap on OK to continue.

4. The JUNG Camera App is now displayed in your JUNG Launcher.

4. Integrate IP camera in JUNG Smart Control

Now you can integrate a new IP camera that you have added to your network into JUNG Smart Control. Make sure that you assign a static IP address to the camera so that the camera can always be reached and camera settings only have to be made once in the JUNG Camera App.

4.1 First start-up of the IP camera

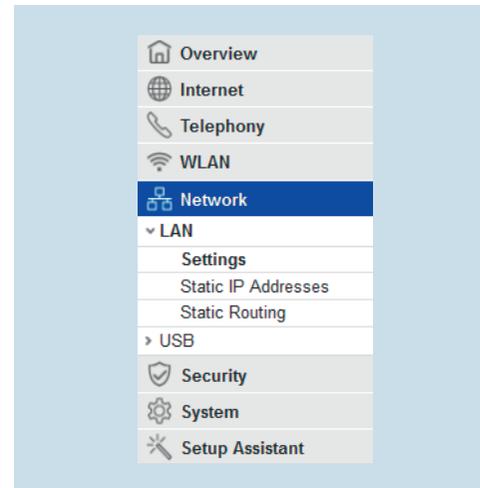First connect the power supply for the camera and connect the device to the network.

1. Start the Set-up Wizard and follow the installation instructions (here using D-Link as an example). The camera usually automatically receives a dynamic IP address [1] from the router during first start-up. Make a note of this IP address.

2. Once the first start-up of the camera is complete, enter the assigned IP address in the address bar of your browser and confirm your entry with the Enter key.

4.2 Specify range for static IP addresses

Before you can assign a static IP address, you must specify the address range in which the static IP address of your camera is located in the settings of your router.
Note: The following configuration was performed using the ZyXel VMG 8546 as an example and can be different depending on the model type of your router.
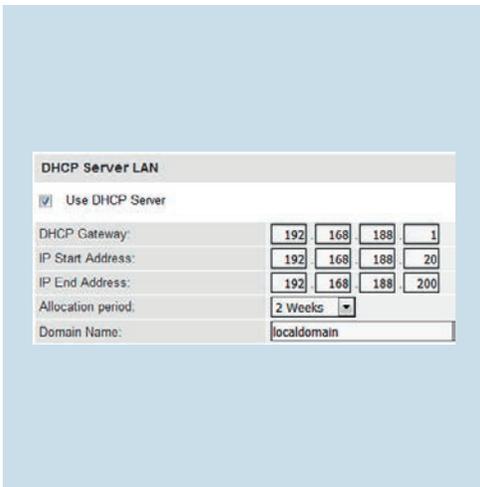
1. Enter the address of your router, in this case zyxel.ip, in the address bar of your web browser and log in to the user interface with your User name and Password.

2. Open the Expert View in your router.

3. Click on LAN in the Network tab and select Settings there.

4.3 Manage IPv4 addresses

You can define the address range for the automatic address allocation of your router. You can use remaining addresses outside the range for static IP addresses.
Note: You cannot allocate the first and last address of an address range (e.g. 192.168.188.0 and 192.168.188.255) as these are permanently assigned as network and broadcast address.
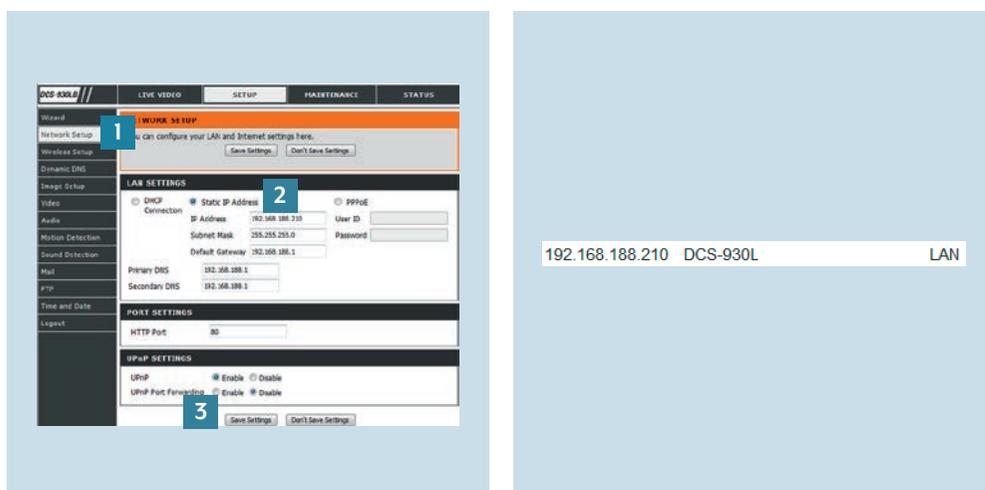

1. You can define the automatic address allocation using the DHCP function of your router in the LAN settings. Dynamic addresses from the range 192.168.188.20 – 192.168.188.200 are defined.

4.4 Set up static IP address of the camera

After you have defined the IPv4 address range, open the user interface of the IP camera.

192.168.188.210   DCS-930L   LAN

1. Select the Network Setup tab [1].
2. Under Static IP Address [2], enter the IP address, the subnet mask, the default gateway and the DNS server.
3. Save [3] the settings.

4. The active LAN connections and the camera with the newly assigned IP address are displayed in the network overview of your router. The device can now always be reached at this address.

4.5 Add camera in the JUNG Camera App

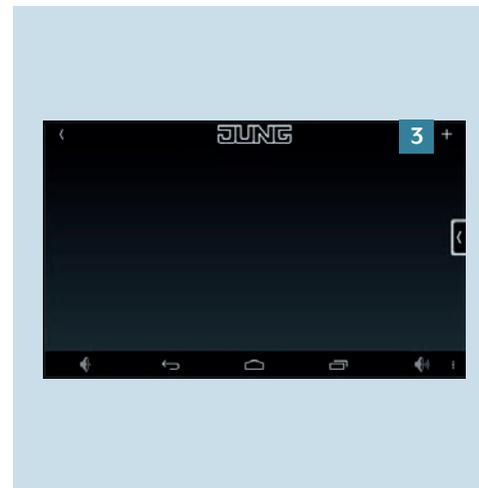You have now defined the static IP address of the camera and can add the camera in the JUNG Camera App in the next step.

1. Open the JUNG Camera App in the JUNG Launcher on your Smart Control. You will be automatically taken to the start screen of the app.

2. Tap on the Menu Selection [1] and select Manage cameras [2] in the selection that is displayed.

3. Add your new camera in the Manage Cameras menu using the + button.

4.6 Fill in input screen (step 1 of 2)

You must fill in all the data in the input screen so that the camera can be added to the JUNG Camera App. Save your entries after you have filled in all fields. The following table on this and the next page gives you an overview of the input fields of the input screen.

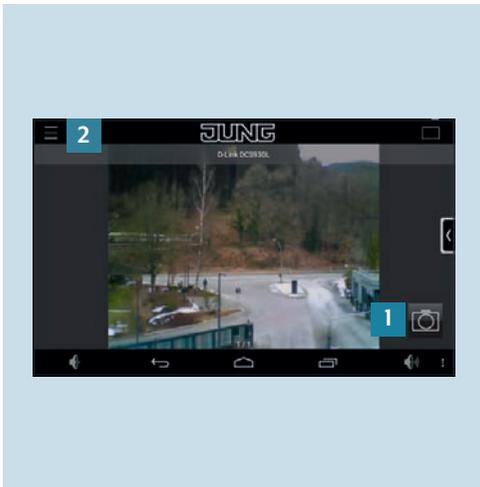| INPUT FIELD	EXPLANATION	EXAMPLE INPUT
Camera name	Enter the desired name for your camera.	D-Link DCS-930L or Outdoor Area
IP	Enter the IP address of your camera	192.168.188.210
Port	Enter the port that your camera should use to communicate via Hypertext Transfer Protocol (HTTP). Refer to the product documentation of your camera for the port.	80
Path	Enter the URL of your video stream. Refer to the product documentation for this. Alternatively, you can enter the IP address of your camera in a web browser (e.g. Google Chrome, Safari or Firefox). Then copy the URL of the stream with a right click on the computer mouse and select "Copy graphic address". Only copy the character string after the IP address (e.g. http://192.168.188.210/**jpeg.cgi**).	/jpeg.cgi
Username	Enter the user name you use to log in to the camera.	admin
Password	Enter the associated password for the user name you use to log in to the camera.	adminadmin

4.6 Fill in input screen (step 2 of 2)

INPUT FIELD	EXPLANATION	EXAMPLE INPUT
Protocol	Select the desired protocol or video or image file format (JPEG – for frame-by-frame retrieval; MJPEG – for the video stream and moving live image; RTSP/H264 – not currently supported and therefore cannot be selected). Also make sure that your camera supports the selected protocol. Refer to your camera's product documentation or product software for more information.	Select JPEG
Delay between frames in ms	If necessary, enter the delay time or update interval (in ms) between the camera frames. If you retrieve a single image, you can determine when the image is updated by setting the delay time.	50 ms
Use SSL	Set a checkmark so that the transmission of the camera takes place using the Secure Socket Layer (SSL) encryption protocol.	Set checkmark for "Use SSL"
Save	Tap on this button to save your camera settings and return to the overview.	Tap on "Save"

5. Live image of your camera in JUNG Smart Control

After you have successfully integrated the camera with the JUNG Camera App in JUNG Smart Control, you can start a video stream of your camera.
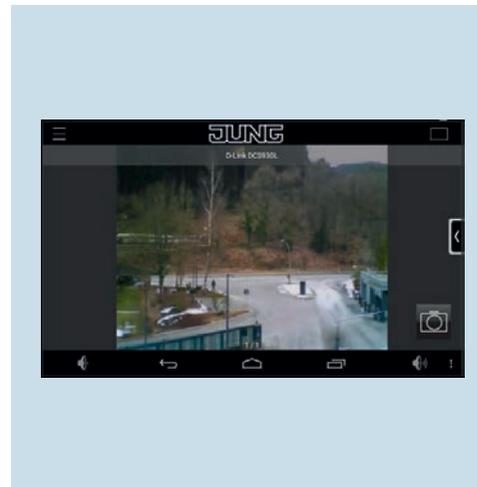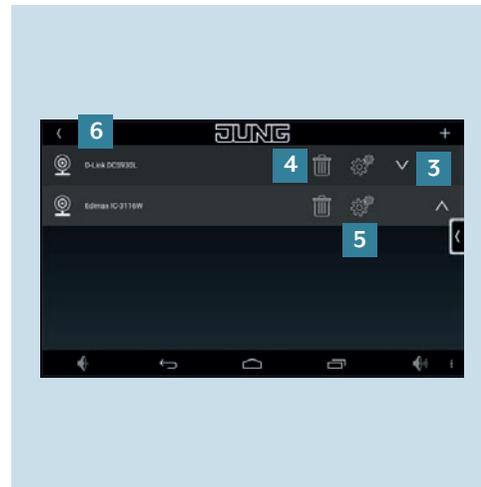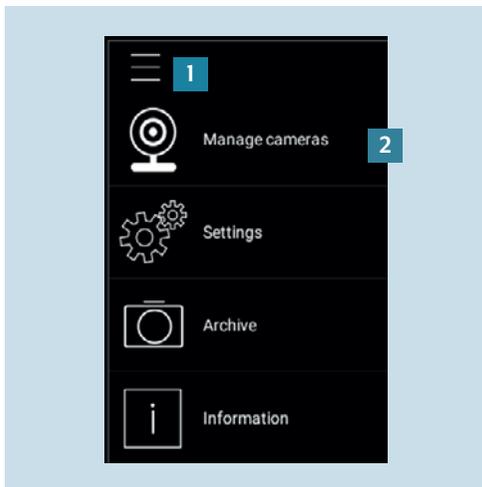

1. If you have successfully integrated the device, you will see a single frame or the video stream of your camera.
2. You create screenshots of the video stream by tapping the Camera button [1] The screenshots are saved in the menu item Archive, which you can access via the Menu Selection [2].

6. Add other cameras

Finally, you can add further cameras to your JUNG Camera App in the JUNG Smart Control. This allows you to switch between different cameras for a single frame or view multiple captures from different cameras simultaneously in split screen mode.
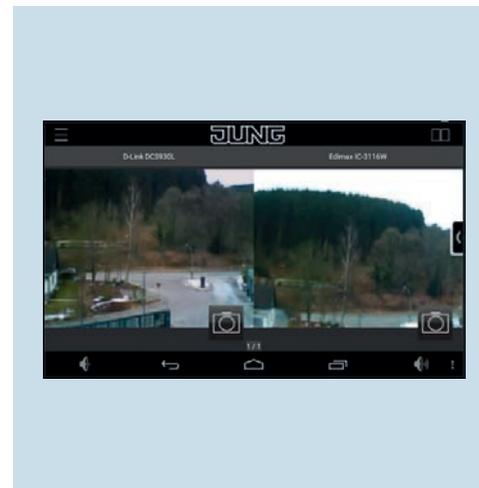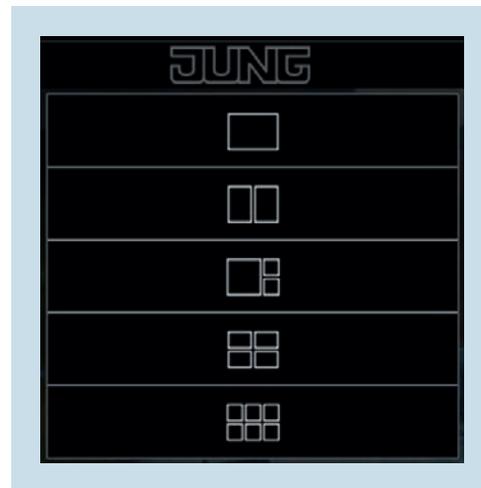
6.1 Switch between the various camera sources

First add more cameras in the JUNG Camera App and then select your video stream between several camera images.

1. Tap on the Menu Selection [1] in the video stream and select Manage cameras [2] in the selection that is displayed.

2. Tap on the arrows [3] to set the order of the cameras in split screen mode.
3. Remove taught-in devices by tapping on the Delete symbol [4].
4. You can edit the camera settings by tapping on the Edit symbol [5].
5. Tapping on the Back symbol [6] returns you to the video stream.

6. If you want to continue to see only one camera image, but want to navigate between the integrated cameras, swipe the display from right to left with your finger to change the image.

6.2 Split screen mode

After you have integrated multiple cameras in your JUNG Smart Control, you can activate the split screen mode in the next step in order to have several video streams running in parallel. When using multiple cameras, the "JPEG" protocol must be used on account of the data volume. The frame refresh rate must be set lower for multiple cameras. It is therefore recommended not to integrate more than six cameras.

1. In Smart Control, tap on the Split screen mode symbol [1] in the top right corner.

2. You can now select between several split screen settings. Select a display of the video stream.

3. After the selection, you return to the JUNG Smart Control and can view the camera images in the layout you selected.

Any questions?

We are pleased to help.

ALBRECHT JUNG GMBH & CO. KG

P.O. Box 1320

58579 Schalksmühle

Germany

Telephone	+49 2355 806-379
Telefax	+49 2355 806-365
E-Mail	international@jung.de

For sales contacts in your country see:

jung-group.com/contact

JUNG-GROUP.COM