OTT Hydromet

Tech Tip: IP camera application with OTT netDL 1000

2.

netDL forward picture from the IP cam to the Server defined in the transmission settings (via LAN or GPRS).

Server

FTP

or

Web-Server with Hydras 3 net

1.

netDL queries a picture from the IP cam according to the configured measurement interval or at defined conditions (action management e. g. limit event at flood water level).

Three options to connect an IP camera to an OTT netDL

1. Direct connection between OTT netDL and IP camera with ethernet crossover cable (GPRS data + picture transmission only)
2. Connection via switch-device and two standard Ethernet cables for one or several IP cameras in parallel
   (GPRS data + picture transmission only)
3. IP camera in a local network (link between netDL and IP camera) with router
   (DSL internet connection for data + picture transmission)

Configuration details

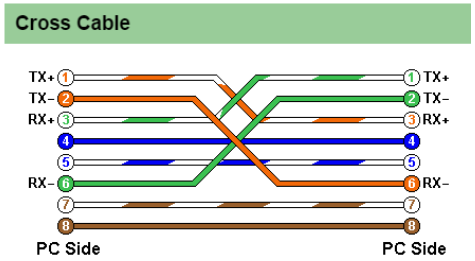
A) for D-Link camera (option 1 & 2)

B) for OTT netDL (option 1 & 2)

C) for D-Link camera and OTT netDL in a routed network (option 3)

IP addresses of netDL and IP camera have to be configured in the netDL with OTT datalogger operating program.

Additionally IP camera has to be setup (IP number, …) with software tool of manufacturer (e. g. D-Link).



The picture shows that TX wires are crossed to the RX wires on the other side of the cable.
For 10 baseT cables the unused pairs are connected straight through.

netDL with IP address 192.168.1.2

LAN port of netDL: **10** Mbit/s

Crossed Ethernet cable

IP camera with IP address 192.168.1.20

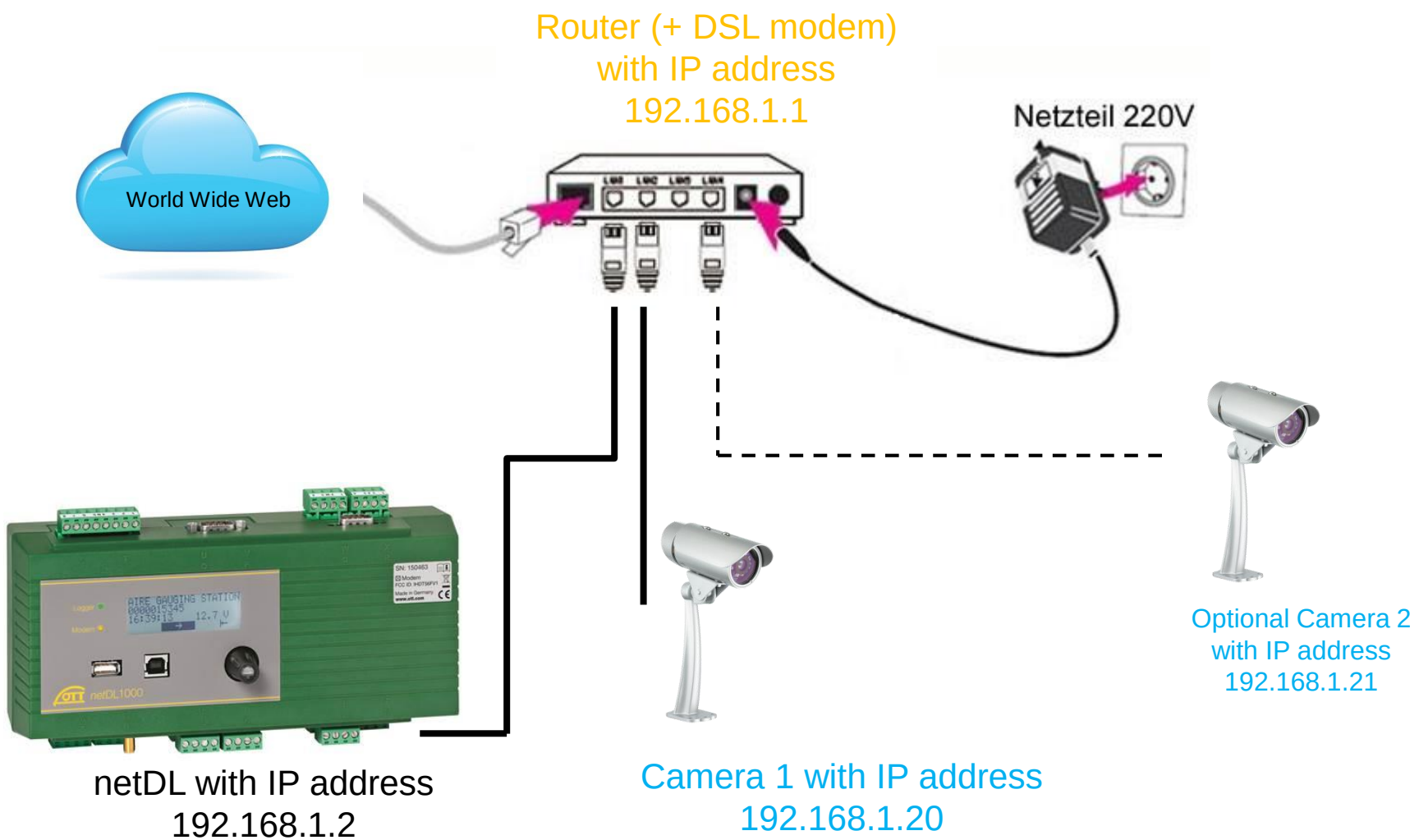
For this setup standard Ethernet cables are used. Second advantage is, that several cameras can be connected.

netDL with IP address 192.168.1.2

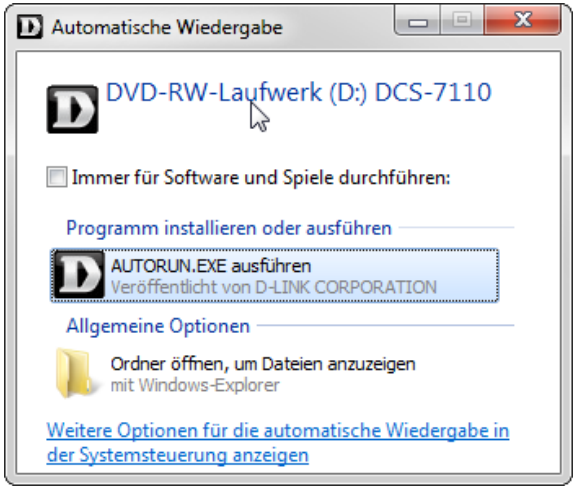
Optional:
IP cam 3 with IP address 192.168.1.22

IP cam with IP address 192.168.1.20

Optional:
IP cam 2 with IP address 192.168.1.21

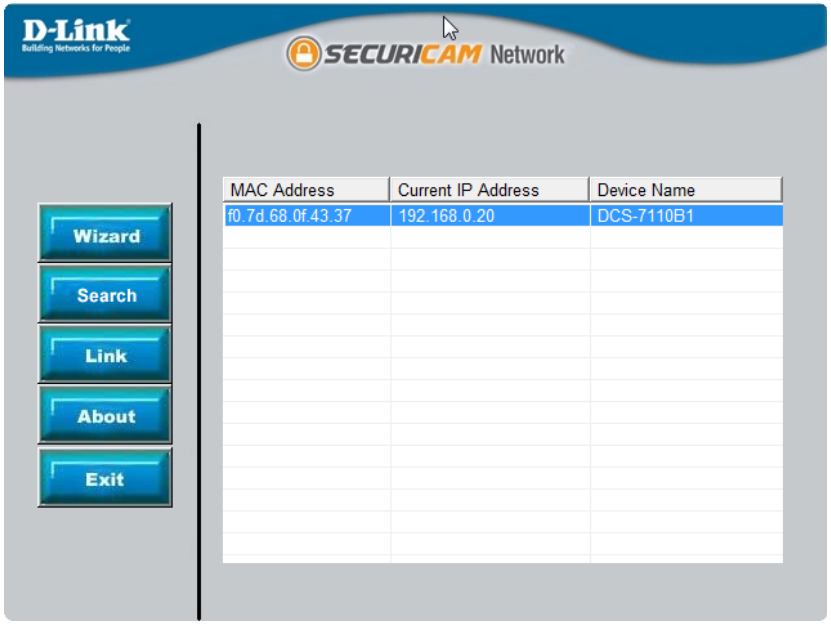


Setup of camera program after inserting the delivered CD to the PC



- Direct Ethernet connection of the camera to the PC with the D-link software (in this case normally both types of Ethernet cables can be used: standard or crossed).

- With help of the „Wizard“ function in the D-link software you can set the IP address and other parameters for the camera.

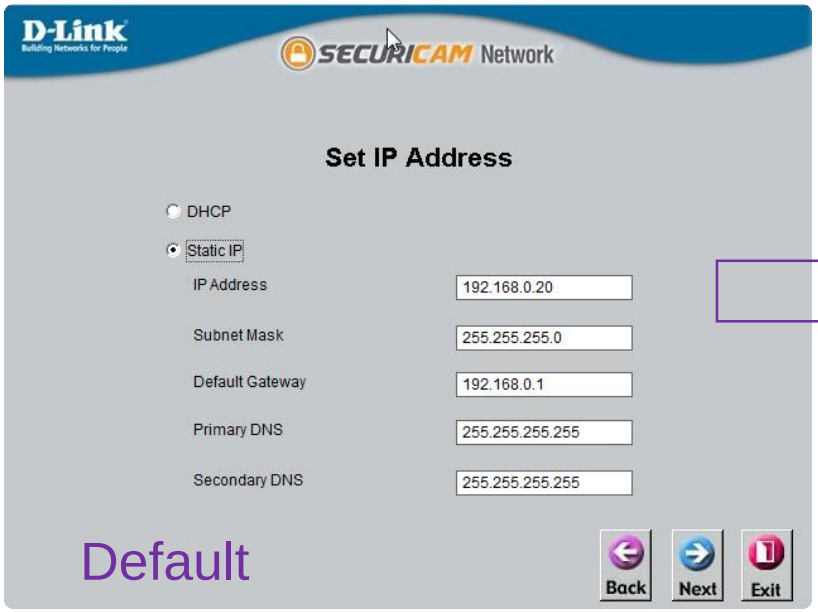


Admin ID: admin

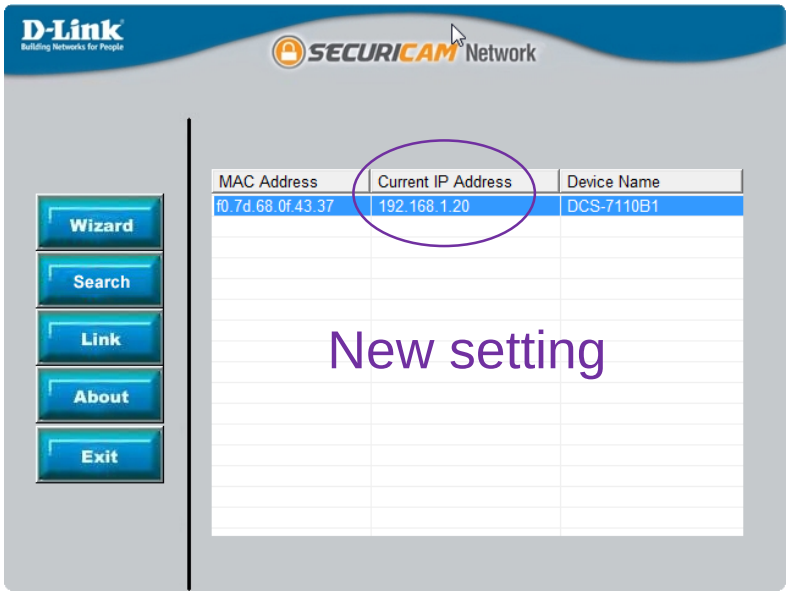
PW: no default password defined

Set password by checking ‚Change‘, enter two times the password and click „Next“ (you may also create a separate account for the IP cam).

a) Settings of the IP adress: 192.168.1.20
b) Subnet mask: 255.255.255.0
c) For the direct link there is **no default gateway** to be defined
d) Also there is **no Primary and Secondary DNS** to enter



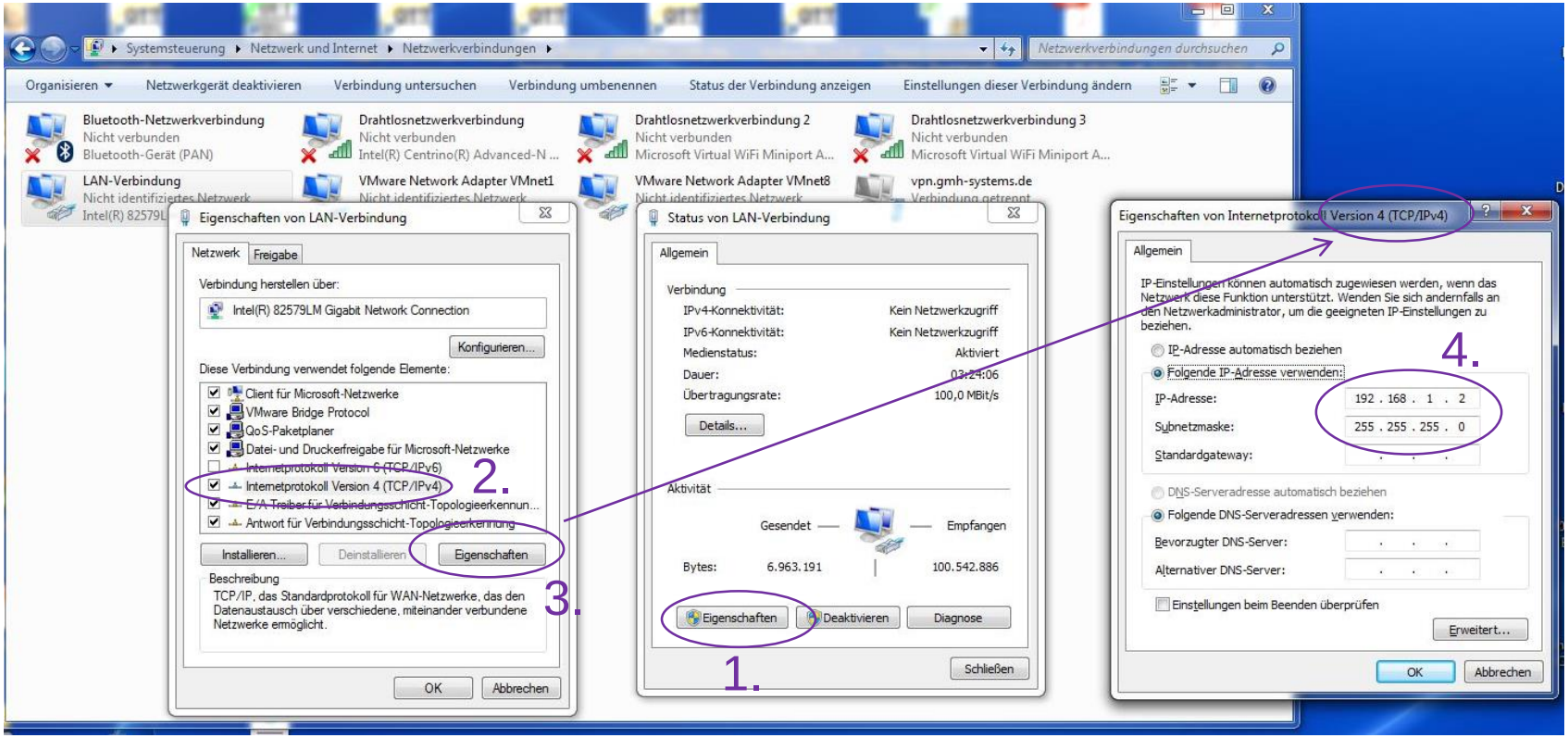
Press the „restart“ button and the camera will store the new settings and reboot.



Not mandatory (just skip this page and come back to it later in case of problems)

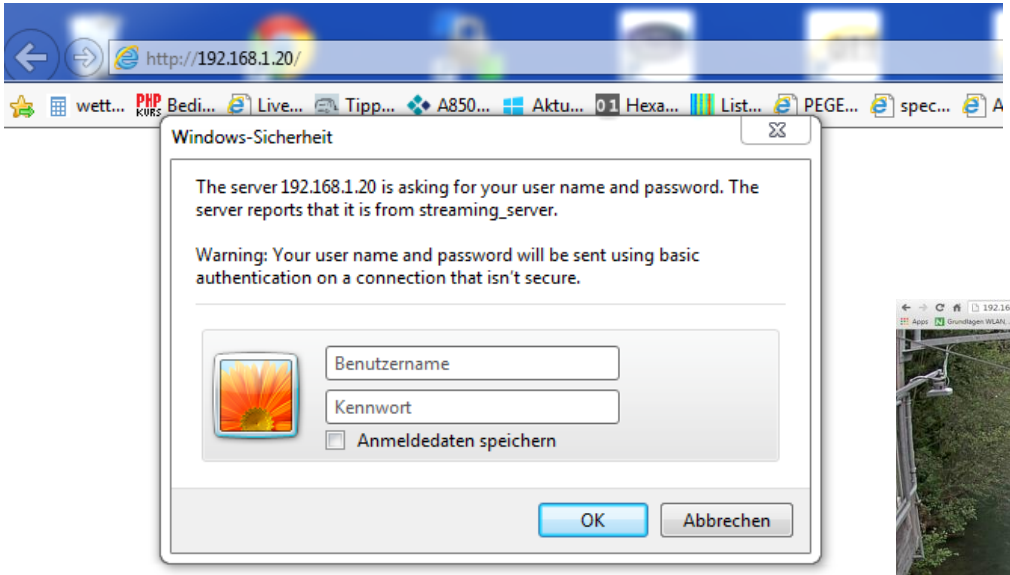
Check the camera connection with browser of your Laptop

Settings for LAN interface (system settings, network, internetprotocol V4)



Not mandatory (just skip this page and come back to it later in case of problems)

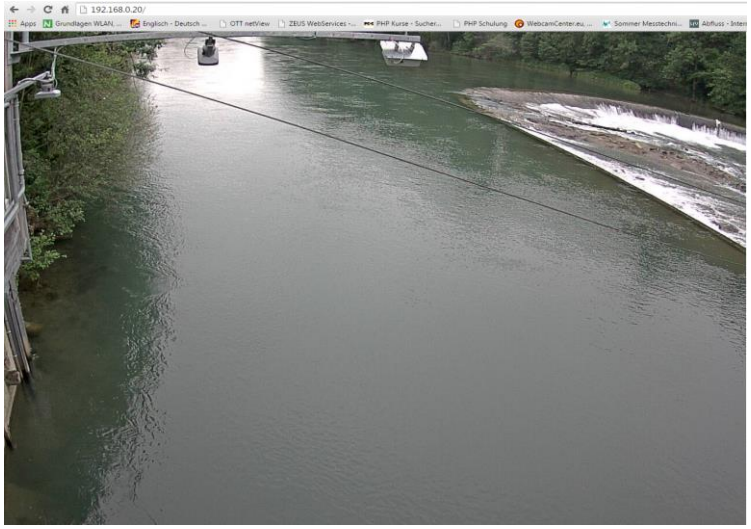
Enter user and password and the D-link camera webserver appears



Enter username admin

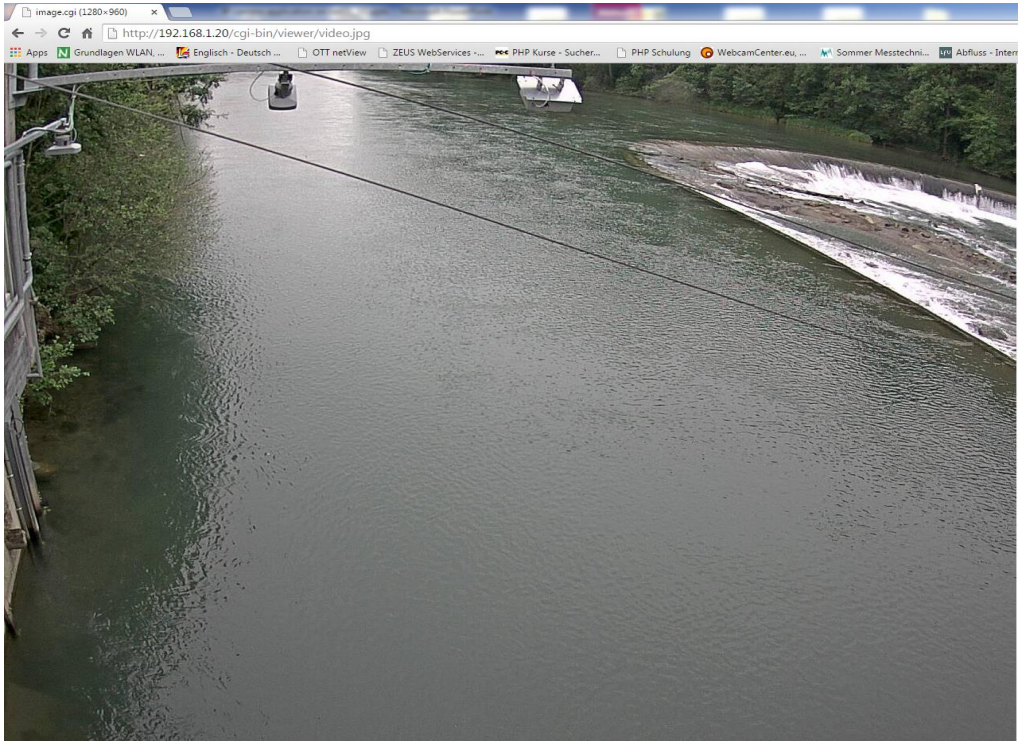
(or your new accountname)

and your defined password

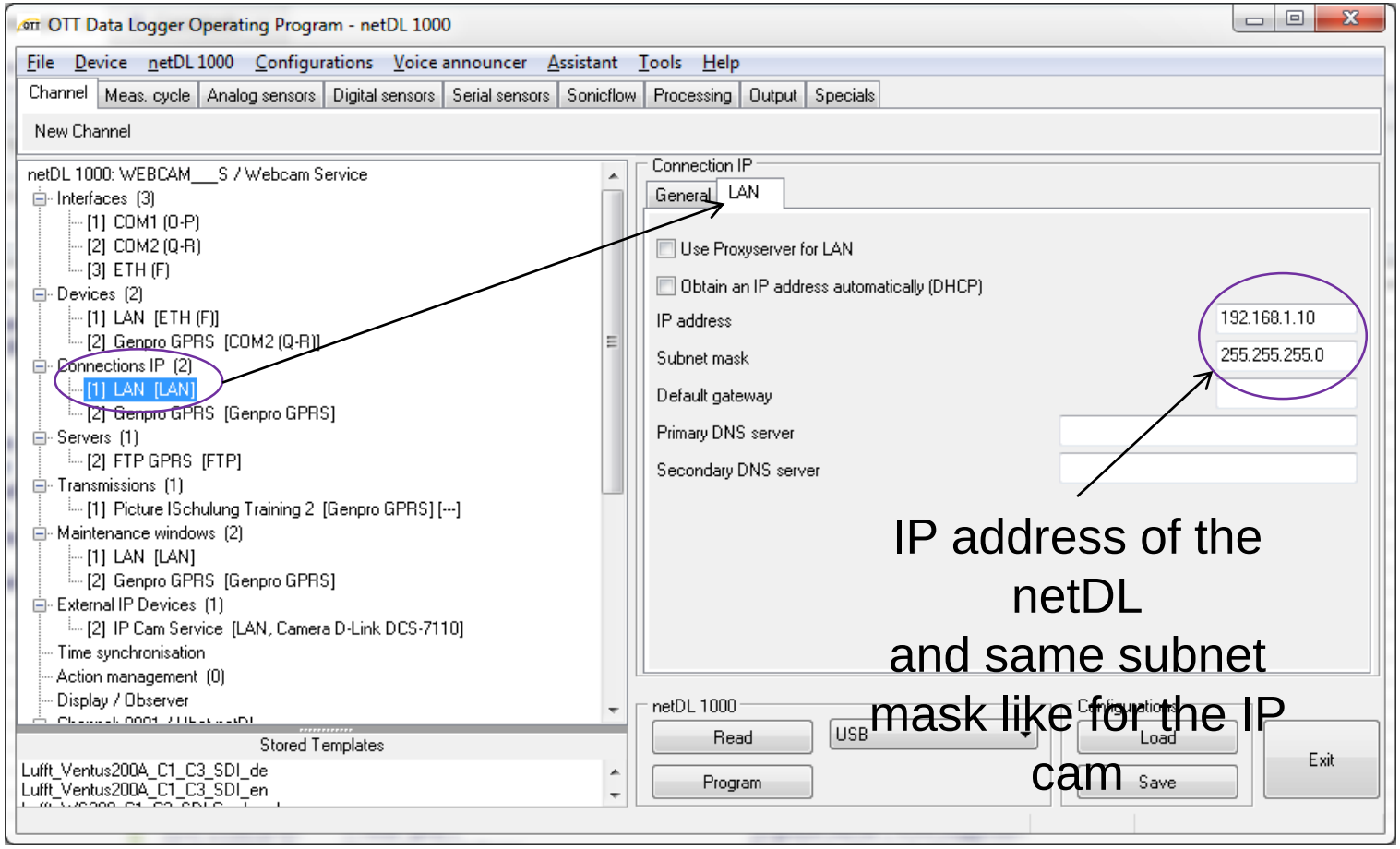


A) Configuration example D-link camera (option 1 & 2)

- This **camera dependend URL** needs to be configured in the netDL
- http://192.168.1.20/cgi-bin/viewer/video.jpg



B) netDL Configuration (option 1 & 2)



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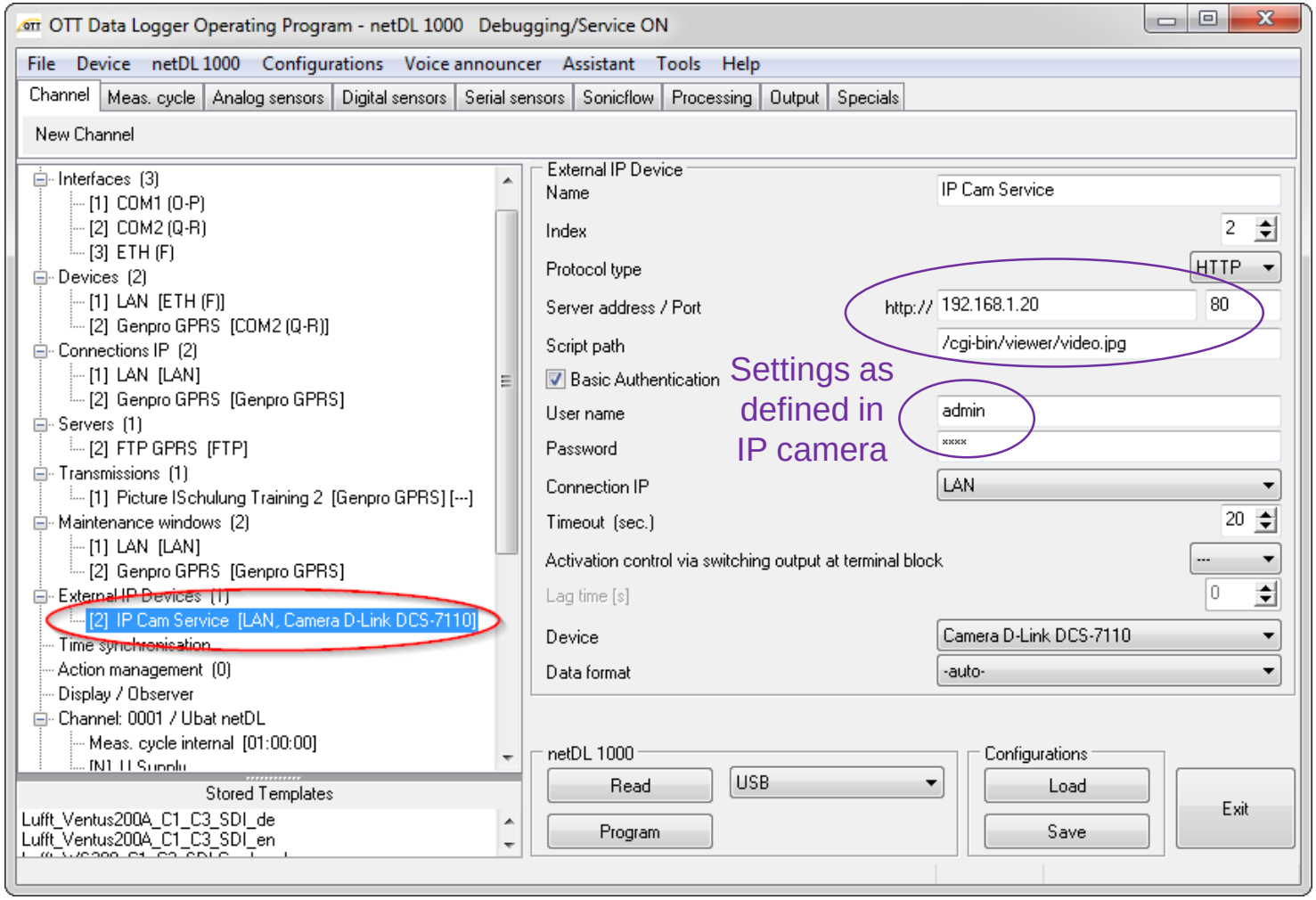

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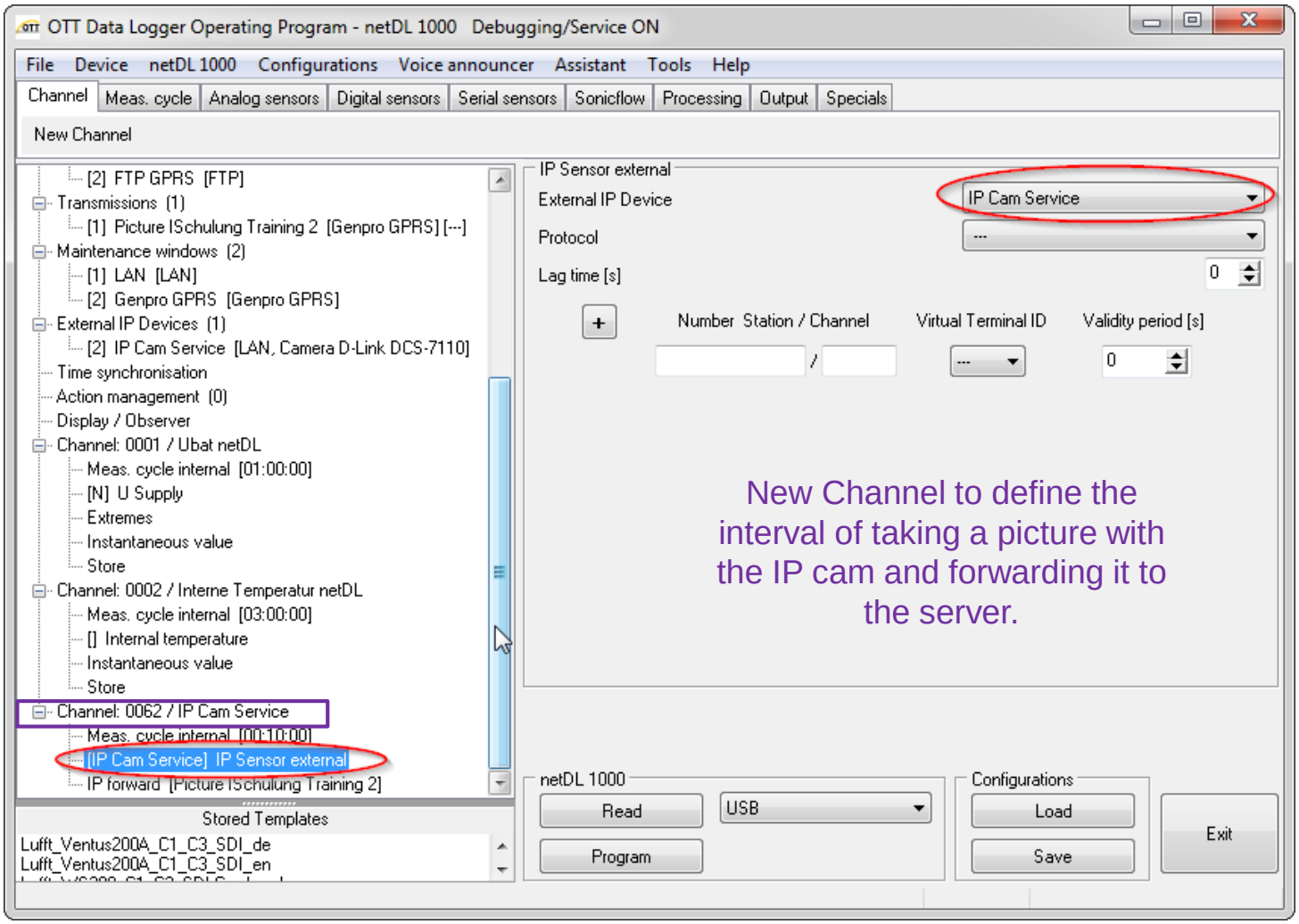

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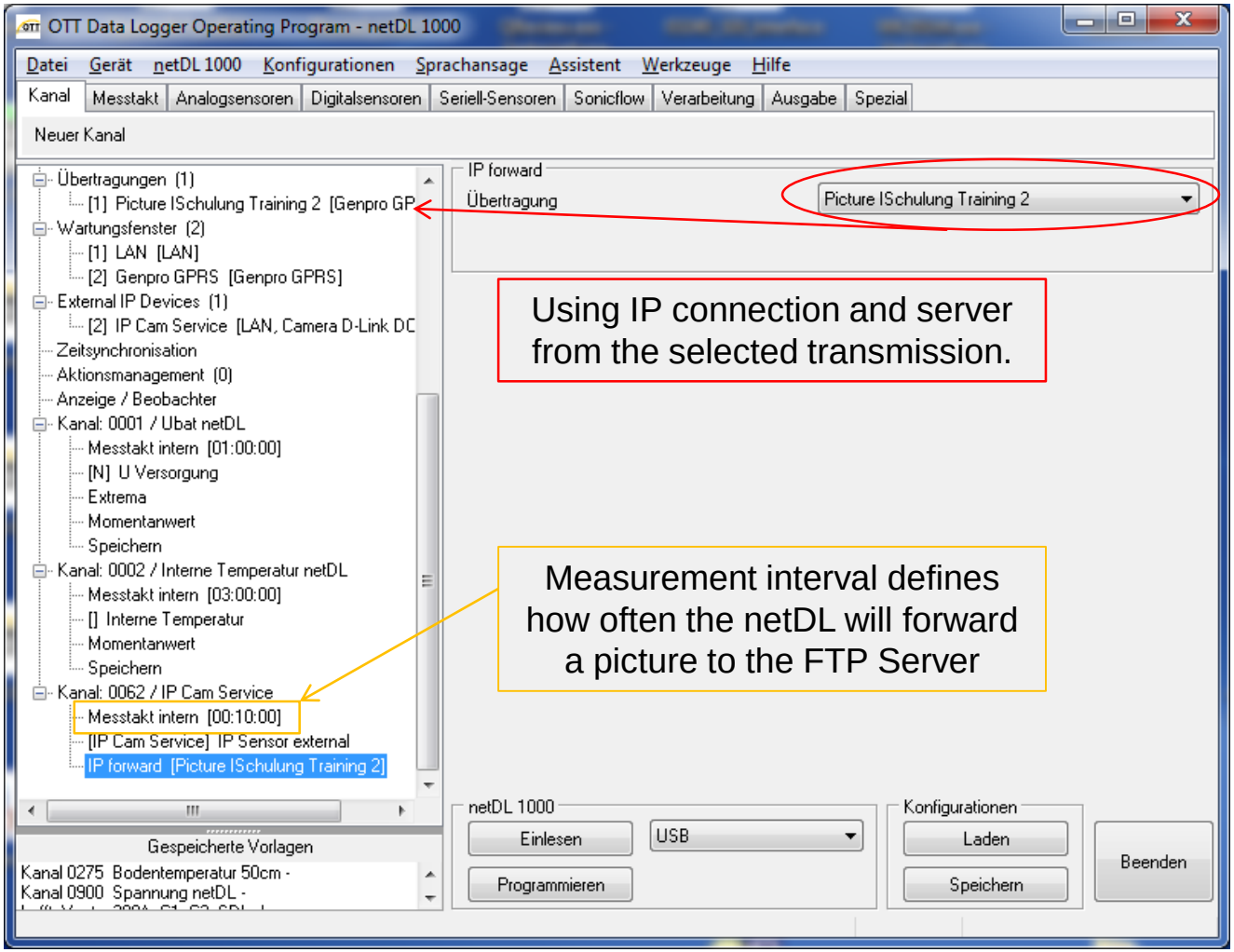
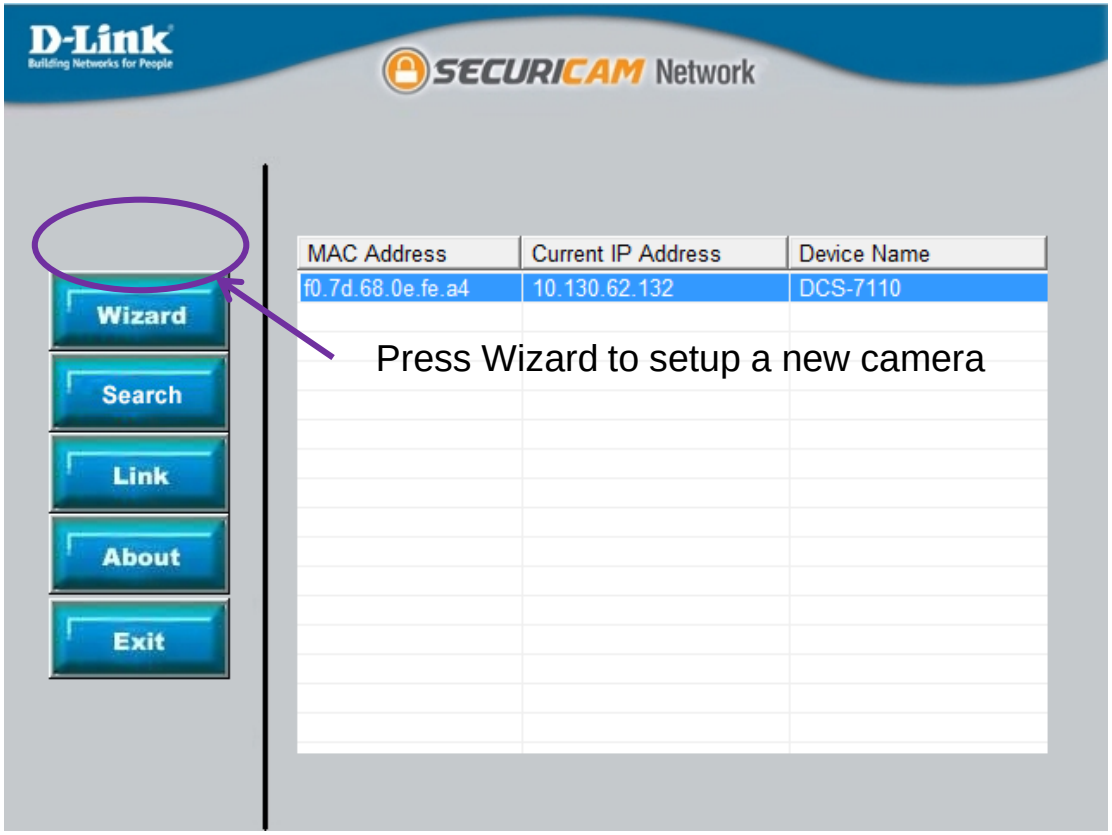


In this example we are working in a network environment with a router.

One Camera with IP 10.130.62.132 is already integrated to the network. With the wizard function you can „setup“ additional cameras



Admin ID: admin

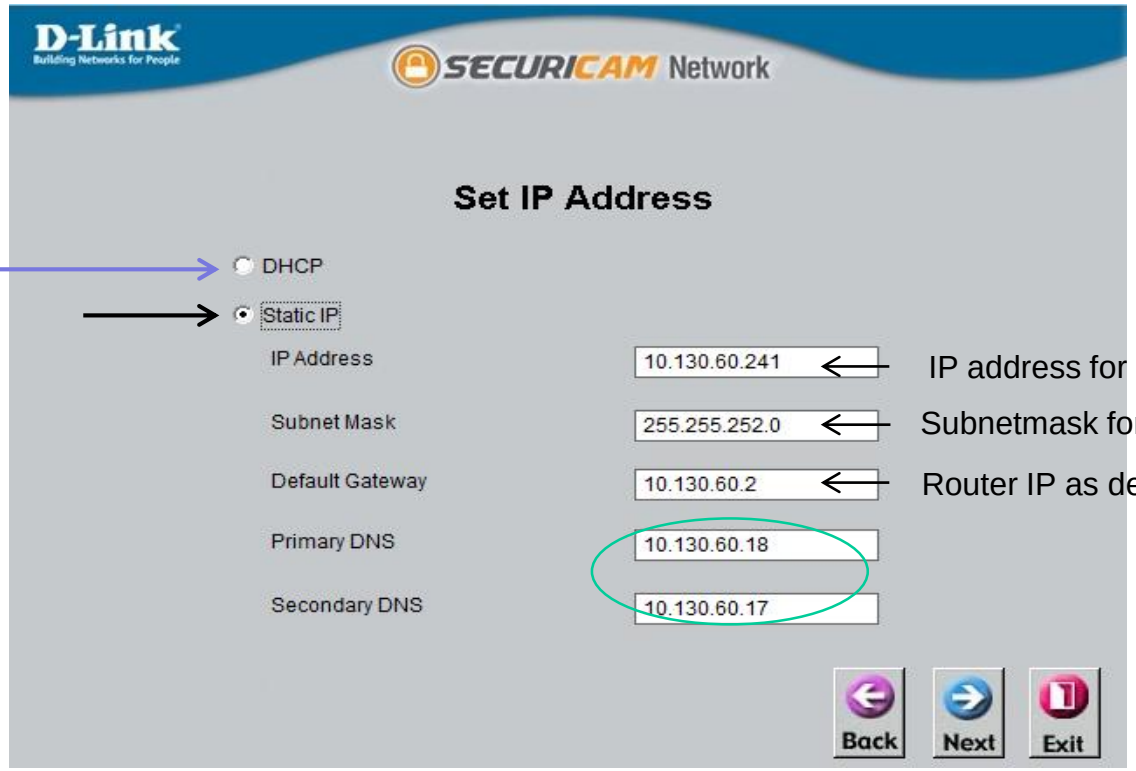
PW: no default password defined

Set password by checking ‚Change‘, enter two times the password and click „Next“ (you may also create a separate account for the IP cam).

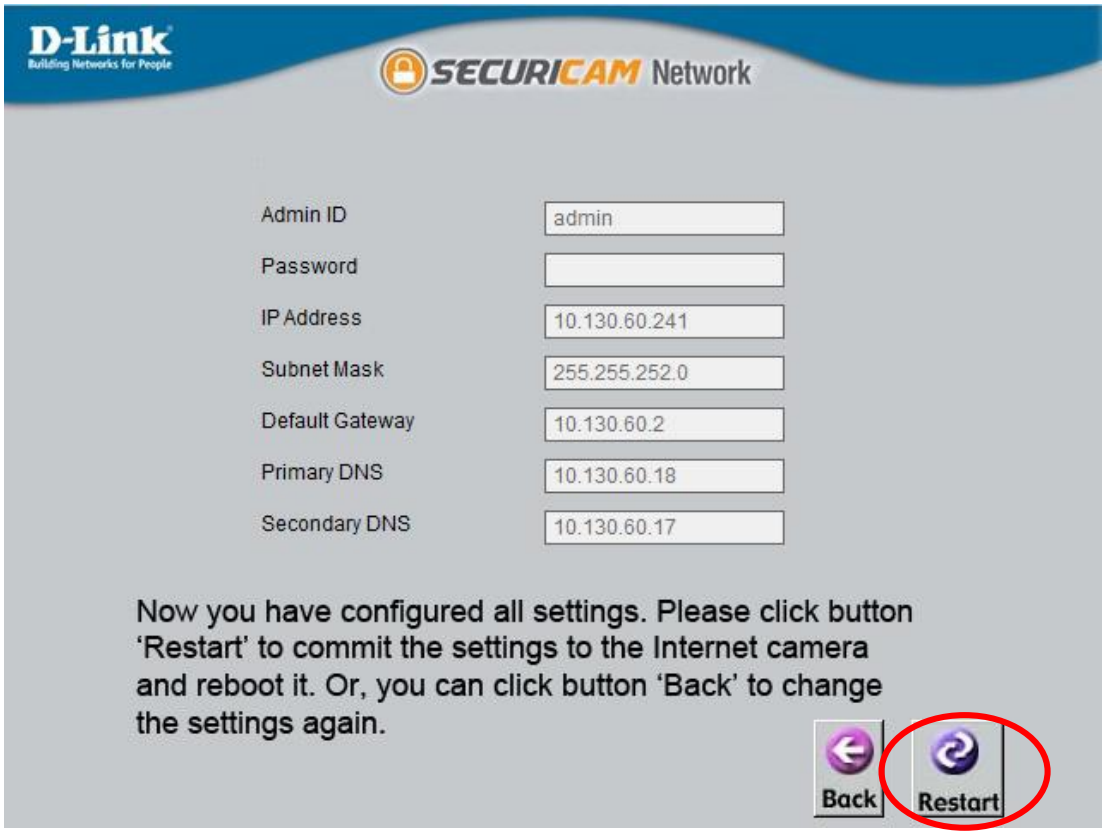
For the internal IP settings ask your IT department. Each „IT Device“ (PC, Kamera, netDL etc.) has its own IP address in the network.

Primary/secondary DNS is only necessary if server is defined as URL (name) which needs to be resolved to a number using the DomainNameServer
(e. g.: datacenter.ott.com => 213.182.6.27)

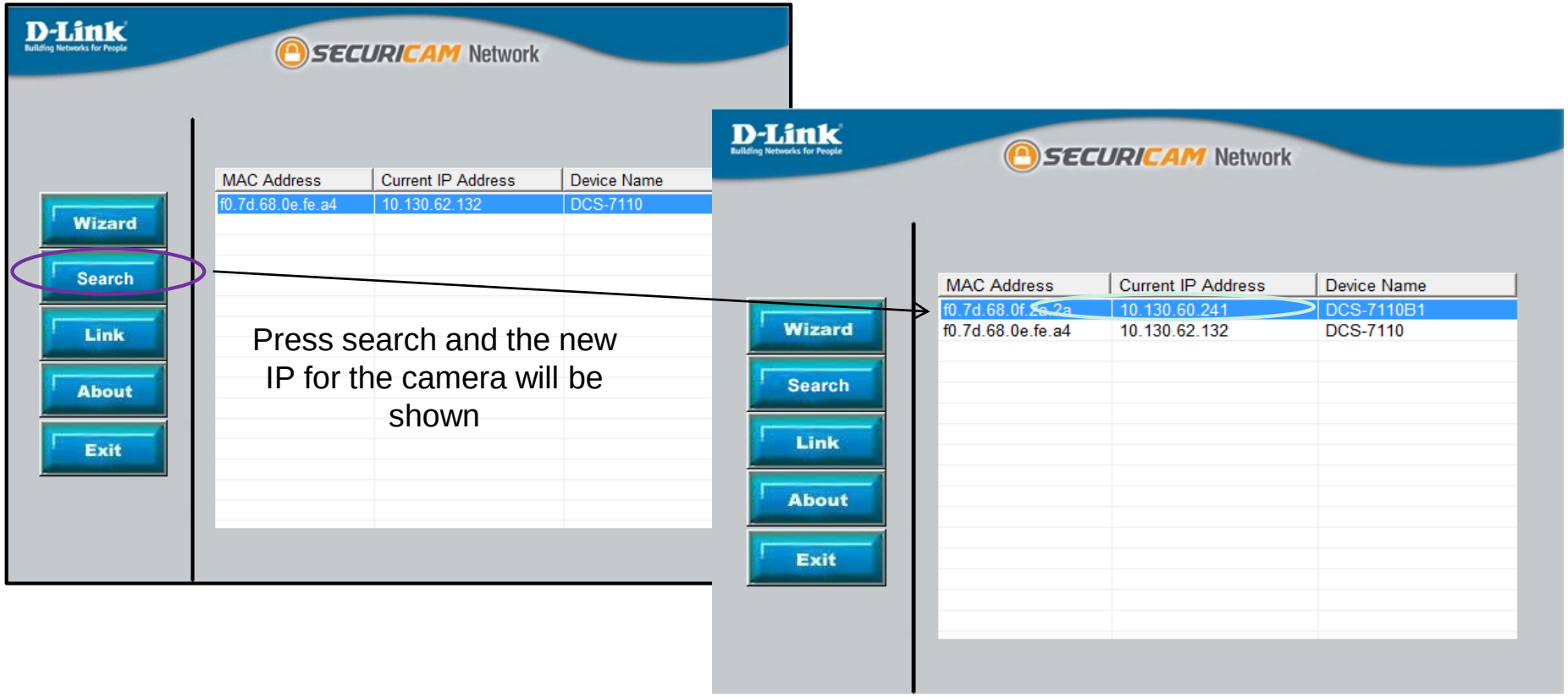
If the router DHCP feature is active you might check the DHCP option in the IP cam for automatically obtaining an IP address. Make sure the **IP cam will always get the same address** (which is normally a standard feature of the router). Having problems later on check again the assigned IP address for the IP cam in the router.



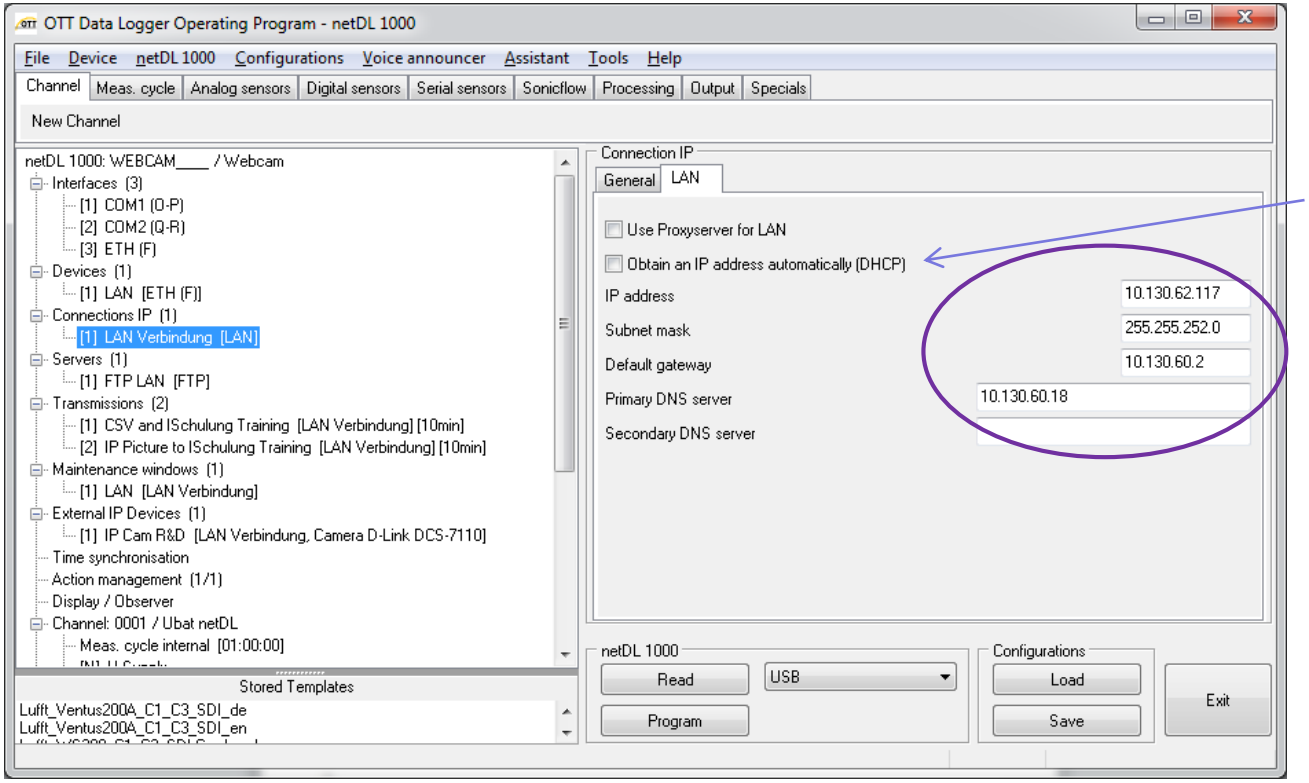
To program the new settings to the camera „restart“ the system.



After „restarting“ the IP cam click on „Search“ to get the new list of all IP camera devices.

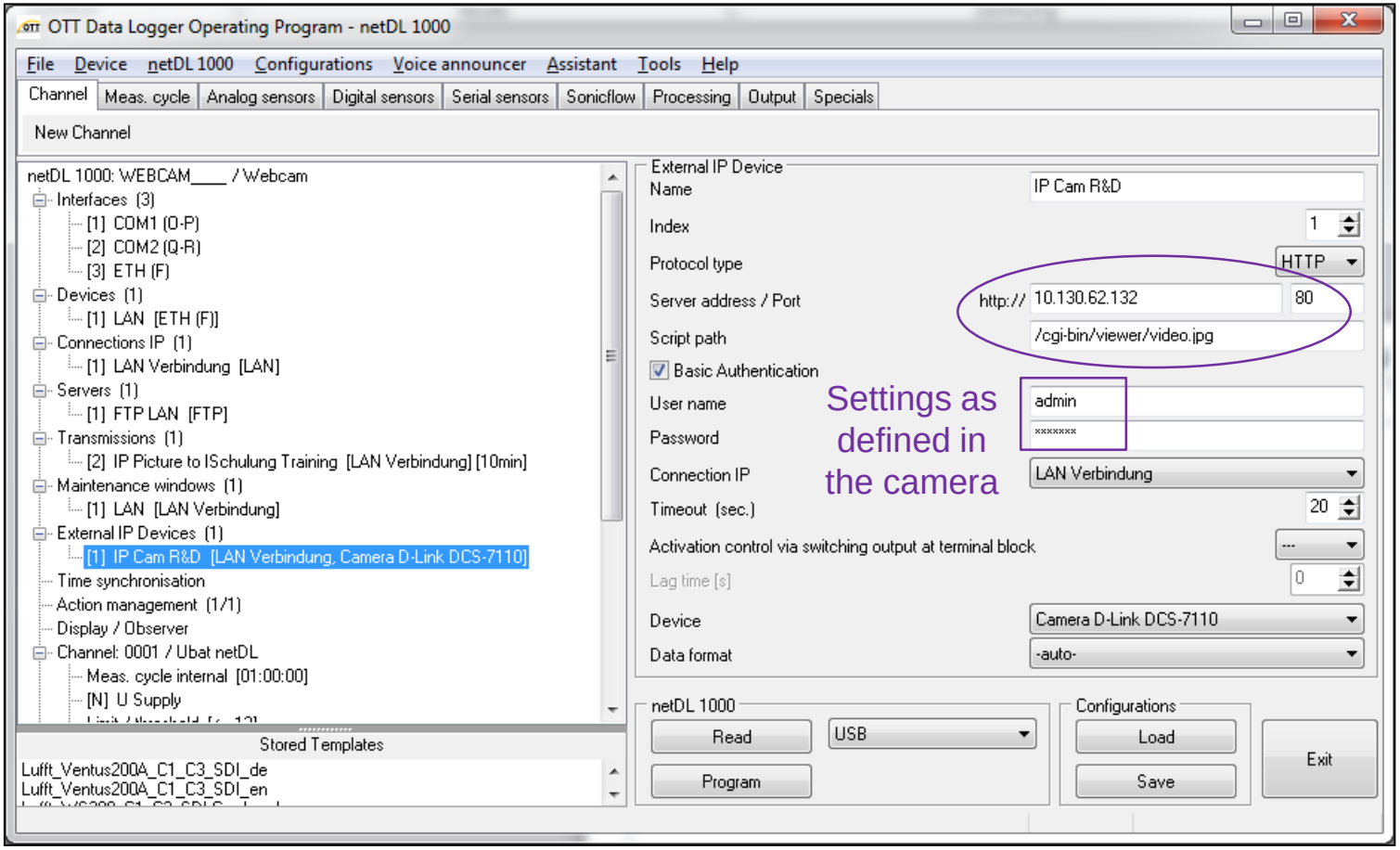


- Settings for option A) 3 (netDL and IP camera with router)
  - Gateway (normally router IP): 192.168.1.1 (in stand alone network, DSL internet connection)
    Here router IP is 10.130.60.2, netDL IP is 10.130.62.117 (clearify with your IT department)
  - Primary DNS is only necessary if server is defined as name which needs to be resolved to IP number using the DNS (e. g.: datacenter.ott.com = 213.182.6.27)



Router with DHCP feature active makes setup for netDL IP connections easy but check again note for IP cam settings

- netDL settings for camera in a routed network (IP adress allocation depends on the IP Network; please clearify with your IT department)



OTT HydroService

(Dr. Torsten Dose)