SICK
Sensor Intelligence.

SOPAS Installation & Embedding Visionary devices

3D Compact Systems

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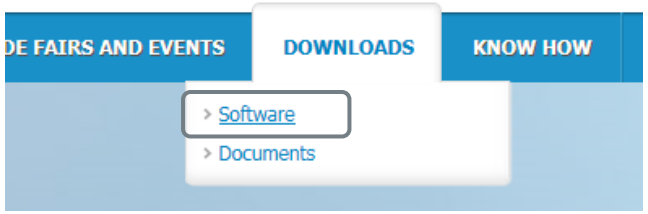
- **Install Device description** (SDD from SICK.com or Supporting material)
- Open offline device

Prerequisites
MINIMAL SYSTEM REQUIREMENTS

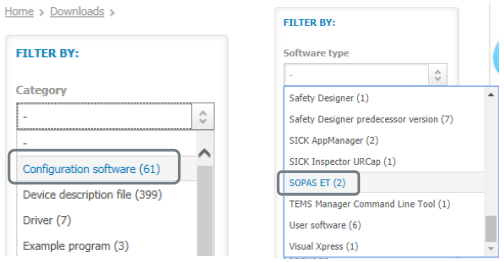
Minimal system requirements	
Processor:	Intel® Core™ i5 2,6 GHz
RAM:	4 GB RAM
Interface:	Hardware communication channels such as serial interfaces, USB or Ethernet, depending on the SICK device
Operating system:	Windows 10, Windows 7 (32 bit/64 bit), Windows 8 (32 bit/64 bit)
Graphic interface:	e.g. Intel® HD Graphics 3000 (or NVIDIA® NVS 3100M 512MB gDDR3) and OpenGL 2.0 Support
Monitor:	Min. 256 colors - recommended 65,536 colors (16 bit Hi color)
Screen resolution:	1024 x 768 px
Hard disk space:	450 MB
Ethernet:	>100 Mbit/s

Install SOPAS ET

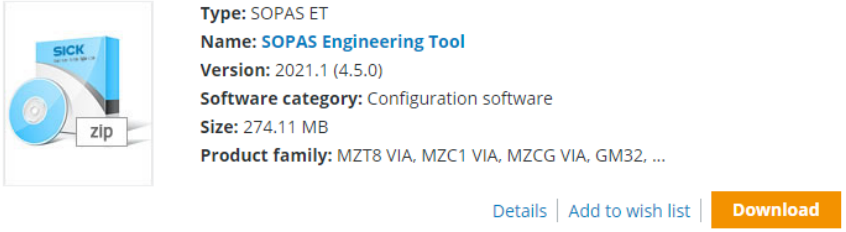
- SOPAS ET is included in the supporting material or available on www.sick.com
- Go to Downloads/Software



- Filter by *Category*: Configuration software & *Software type*: Sopas ET



- SOPAS Engineering Tool 2021.1
(or higher)
- Accept Terms & Conditions and download the software



STEP BY STEP
CHOOSE YOUR WAY TO INSTALL DEVICE

Two ways to embed a Visionary device into SOPAS

Online - requires a Visionary device

- Getting properly connected
- Install device description from device
- Go online and explore the GUI

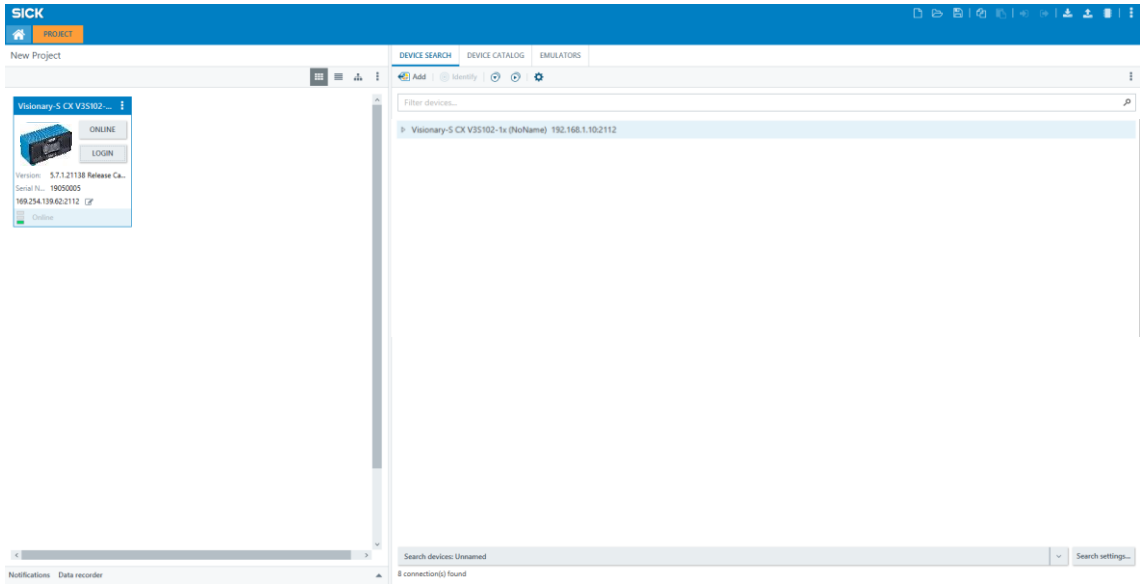
Offline - requires one or more SOPAS device description (sdd) file(s)

- Add SOPAS device description (sdd) from SICK.com or the Supporting material
- Open and explore the GUI in the offline mode (no data stream)

Getting properly connected

START SOPAS ET

- Connect your device via Ethernet to your local PC
- Connect the unit to the power supply and wait until it has booted up
- Start SOPAS ET
- The device should be found and added automatically to the project

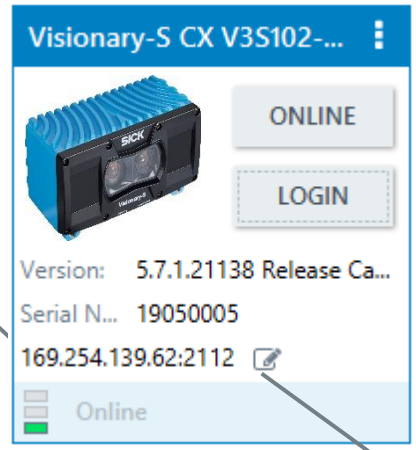


Getting properly connected
CHANGE IP ADDRESS

- If necessary, change the IP address of the device according your local network

- It’s also possible to change between static IP address or dynamic IP address via DHCP server

IP address of the device is displayed in the device tile.

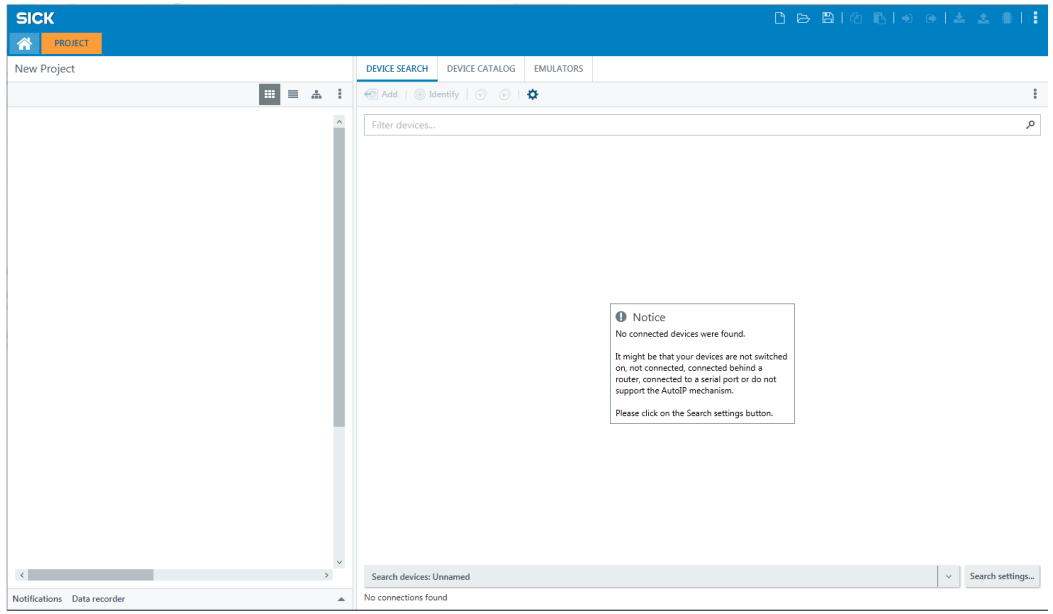


Clicking the pen allows to modify the IP address settings

Getting properly connected
DEVICE NOT FOUND

If the device was not found, check the following:

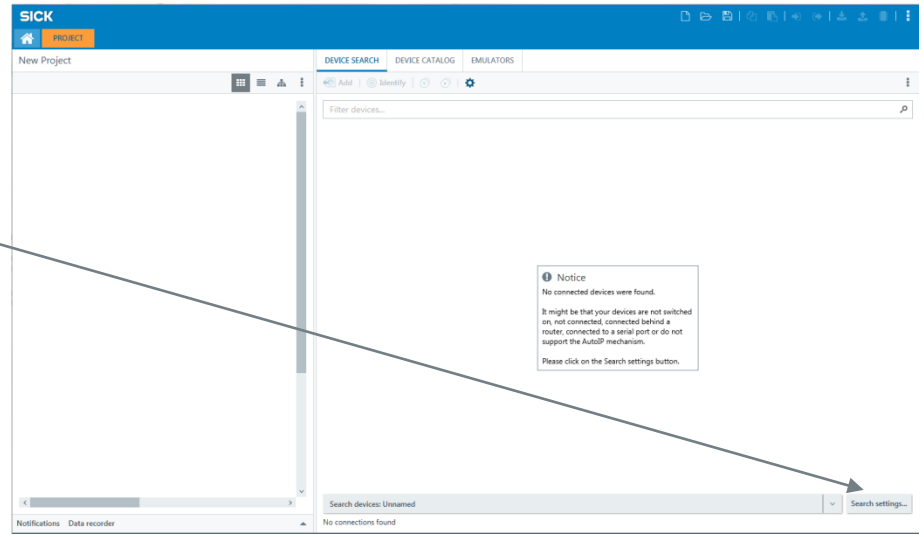
- First connect and power the device, after that start SOPAS ET.
- Check your local network settings.
- Default IP of the Visionary devices is 192.168.1.10



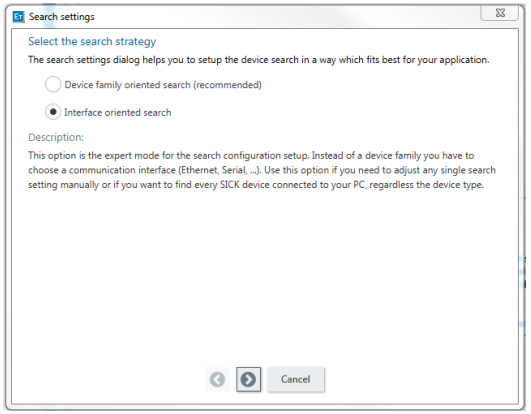
Getting properly connected
CHANGE SEARCH SETTINGS

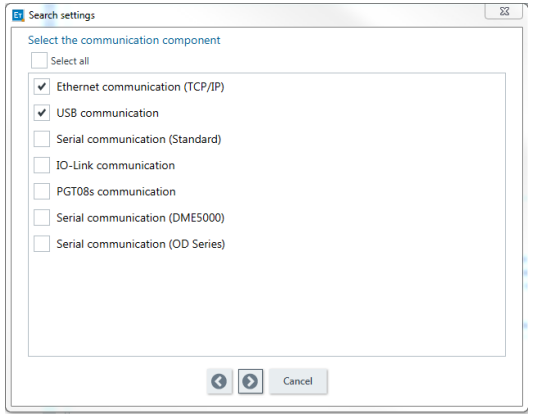
If the device was not found, check the following:

- Change search settings



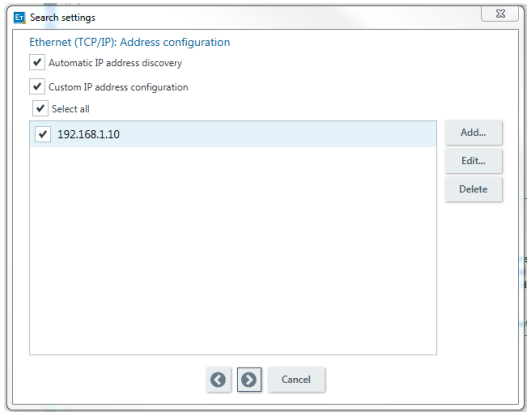
- Follow the standard SOPAS ET wizard.





Getting properly connected
CHANGE SEARCH SETTINGS

- Some local network settings or hardware may block the automatic IP address discovery scan which based on broadcast messages.
- Add the default IP **192.168.1.10** address to the search list.

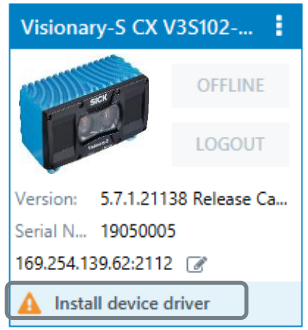


- If your device is not detected automatically, check your firewall settings and used hardware between your local host and the device.
- **Please make sure your firewall allows communication to the TCP-ports 2112, 2113, 2114**
- **In addition, the camera uses the UDP-port 30718 for AUTO-IP-Scan.**
  For this purpose, *Broadcast* must be enabled
- Duplicate IP addresses, firewall settings or used network components may also block the change of the IP address.

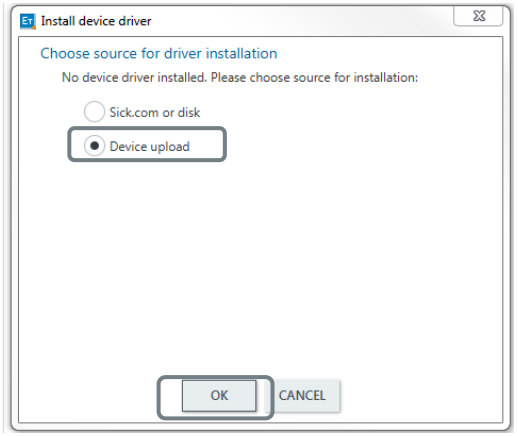
Install SOPAS Device description
(SDD) FROM DEVICE

After a successful connection, the driver might be missing.

- Click on *Install device driver*

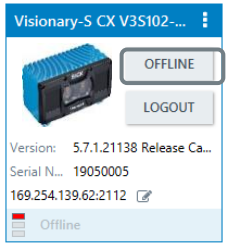


- Choose *Device upload*

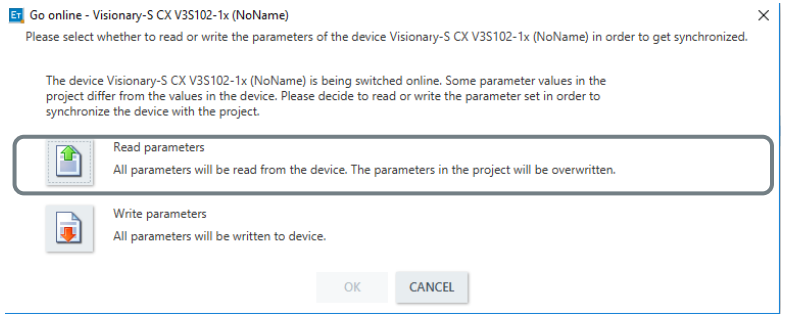


Go Online
(IF NOT AUTOMATICALLY DONE)

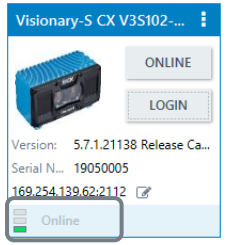
- Click *Offline* to go online



- Choose *Read parameters*



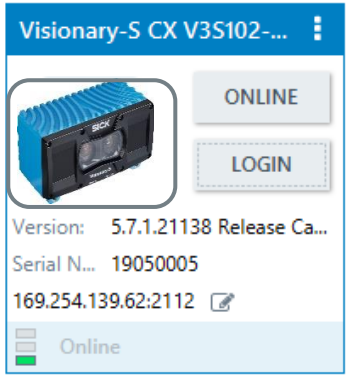
- Success!



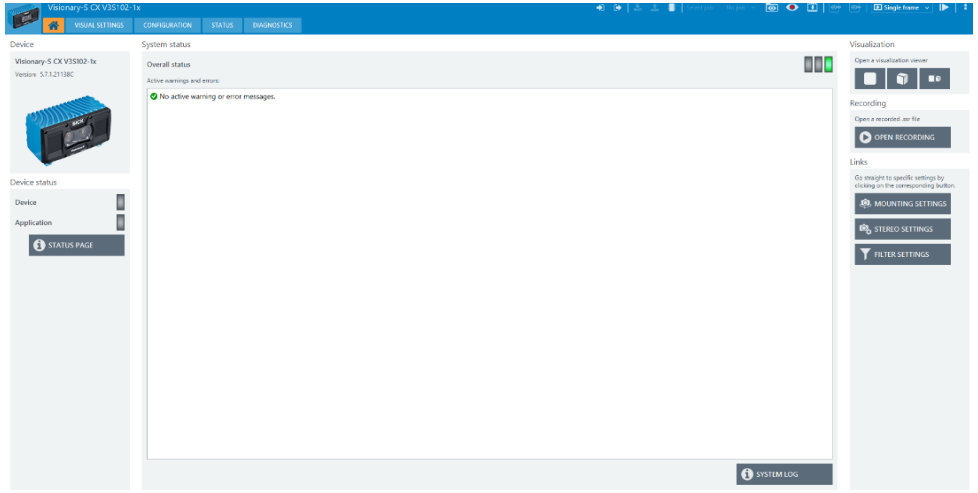
Device Window

OPEN DEVICE WINDOW

- Double click on the device tile to open the device window



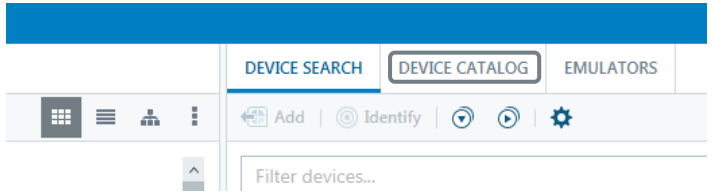
- Continue with GUI Configuration presentation for more details and examples



Install Device description

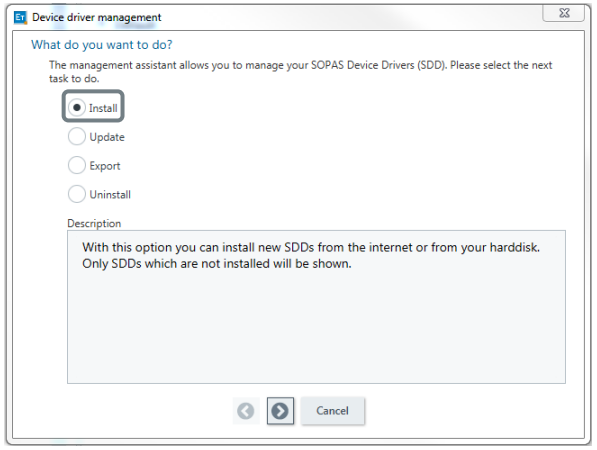
SDD FROM SICK.COM OR DISK

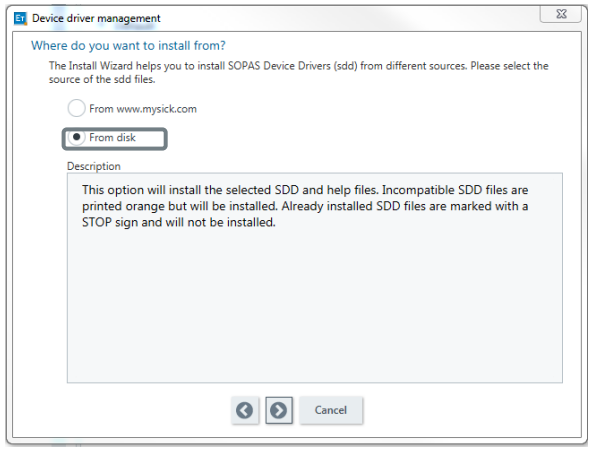
- Open *Device catalog*



- Start the device driver management

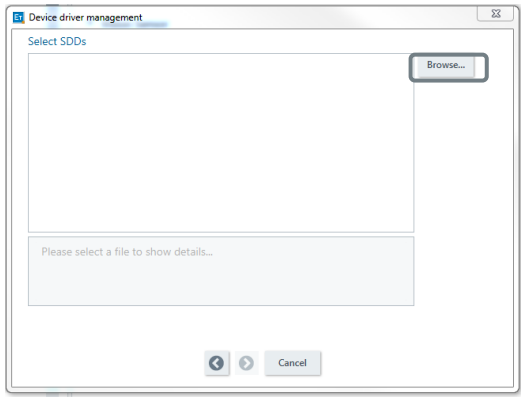
- Choose *Install →From disk*



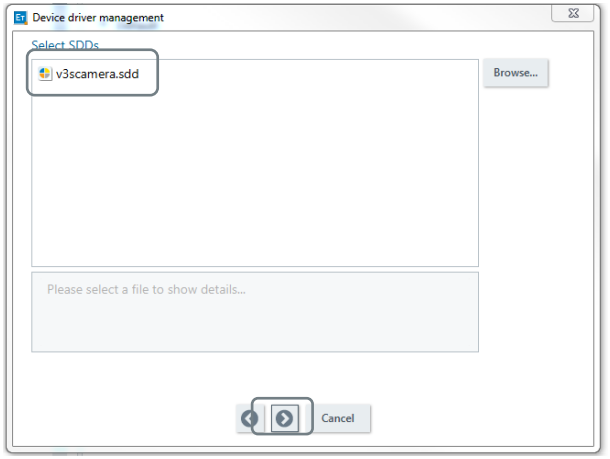


Install Device driver
SDD FROM SICK.COM OR DISK

- Search and find *V3SCamera.sdd*
  The SDD is included in the Supporting material

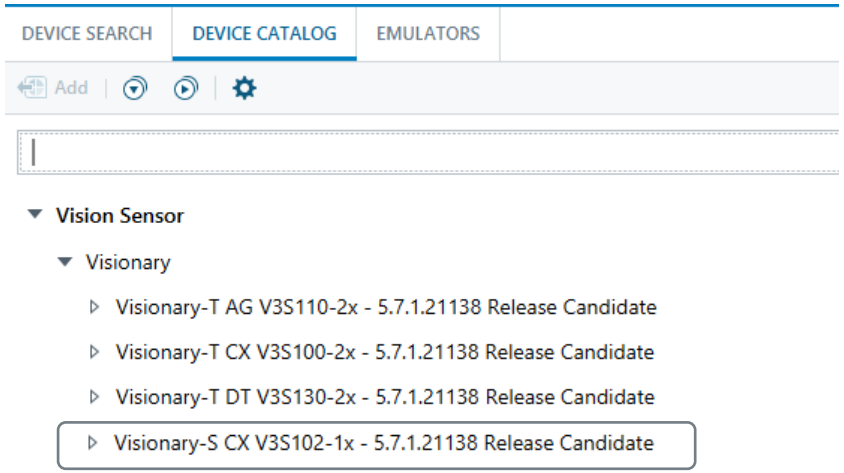


- Confirm selection

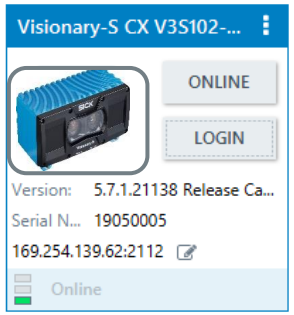


Open offline device
OPEN DEVICE CATALOG

- Double click on your Visionary Version
  - If more than one versions available, choose the latest one.



- Double click on the device tile to open the device window (no data stream)
- Continue with GUI-Configuration presentation for more details and examples



Thank you for your attention.

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