

Installation Guide



Installation Guide
MVisio HMI Lite and Pro

English translation
Errors and technical changes reserved

**MVisio HMI Lite in Master/Slave mode with
an integrated PLC**

H. Zander GmbH & Co. KG
Am Gut Wolf 15
52070 Aachen, Germany
info@zander-aachen.de
www.zander-aachen.de

Item no.: E61-361-10
Version: M09

This document is the English translation.

Technical changes reserved,
all information is subject to change.

Table of contents:

1. About this document	4
1.1 Validity	4
1.2 Target group	4
1.3 Explanation of symbols	4
2. General safety instructions	5
3. Software installation	6
4. Creating a new project	8
5. Assigning an IP-address to the MVisio HMI Lite/Pro	9
6. Integrate the MVisio HMI Lite into CODESYS	11
7. Notes	12

1. About this document






1.1 Validity

This document is valid for the MVisio HMI Lite (Human Maschine Interface) (Item no.: 589105) and the MVisio HMI Pro (Item no.: 589103 (5“-Version) and Item no.: 589102 (7“-Version)) from Zander Aachen, Codesys Version V.3.5.12 SP1 and Codesys Package 3.5.12.0_30.

1.2 Target group

Electricians, installation-, commissioning- and service personnel with appropriate knowledge in handling automation technology components.

1.3 Explanation of symbols

Symbol / Illustration	Meaning
	Document in printed form
	Document is available to download at www.zander-aachen.de .
	Dokument on USB memory stick
 Warning, Caution	Safety instruction Warning: Possible dangers Caution: Personal injuries and property damages possible
	Important information
Hint	Hint / Useful Information

2. General safety instructions



Warning,
Caution

- Only authorized and qualified personnel may install the device and put it into operation, i.e. personnel which
 - is well-acquainted with correct technical handling of the electrical machine equipment,
 - is familiar with the applicable regulations concerning occupational safety and accident prevention,
 - has read and understood the operating manual and, if applicable, the programming manual.
- In case of incorrect connection or inappropriate use, the safe functioning of the device during operation will no longer be guaranteed. This can result in fatal injuries or serious material loss.
- Please observe the national guidelines which are valid for the commissioning of the device.
- The electrical connection of the device must only take place when the voltage supply is switched off. This also applies to the connected sensors and actuators.
- The wiring of the device must be done in conformance with the instructions given in this operating manual.
- The person who installs and commissions the device must be protected against electrostatic charges (ground strap or ESD shoes in connection with ESD flooring).
- Opening of the device and any manipulations to the device are not allowed and shall result in loss of warranty and warranty claims.
- Please observe all the relevant safety guidelines and standards.
- Non-observance of the safety guidelines can result in death, serious injury and property damage.
- Please read the operating manual before use and preserve it carefully.
- Please ensure that the operating manual is always available at the time of assembly, commissioning and maintenance work.

3. Software installation

To program the MVisio HMI Lite/Pro, the programming software CODESYS of 3S-Smart Software Solutions GmbH is required. The software can be found on the provided USB memory stick. User registration may be required for the download. After unpacking the file, the installation can start. After finishing the installation a system reboot is required.

To integrate the MVisio HMI Lite into CODESYS, further packages need to be installed. For that, start CODESYS, click on *Tool - Package Manager - Install* and navigate to the package on the included USB memory stick (see figure 1 a / 1 b)).

Due to the driver version the package is named "CODESYS_TURCK_3.X.X.X_XX.package" see figure 1 c).

After finishing the package installation, exit and restart CODESYS. If the packages has been installed successfully, it will appear in the package list (see figure 1 d).

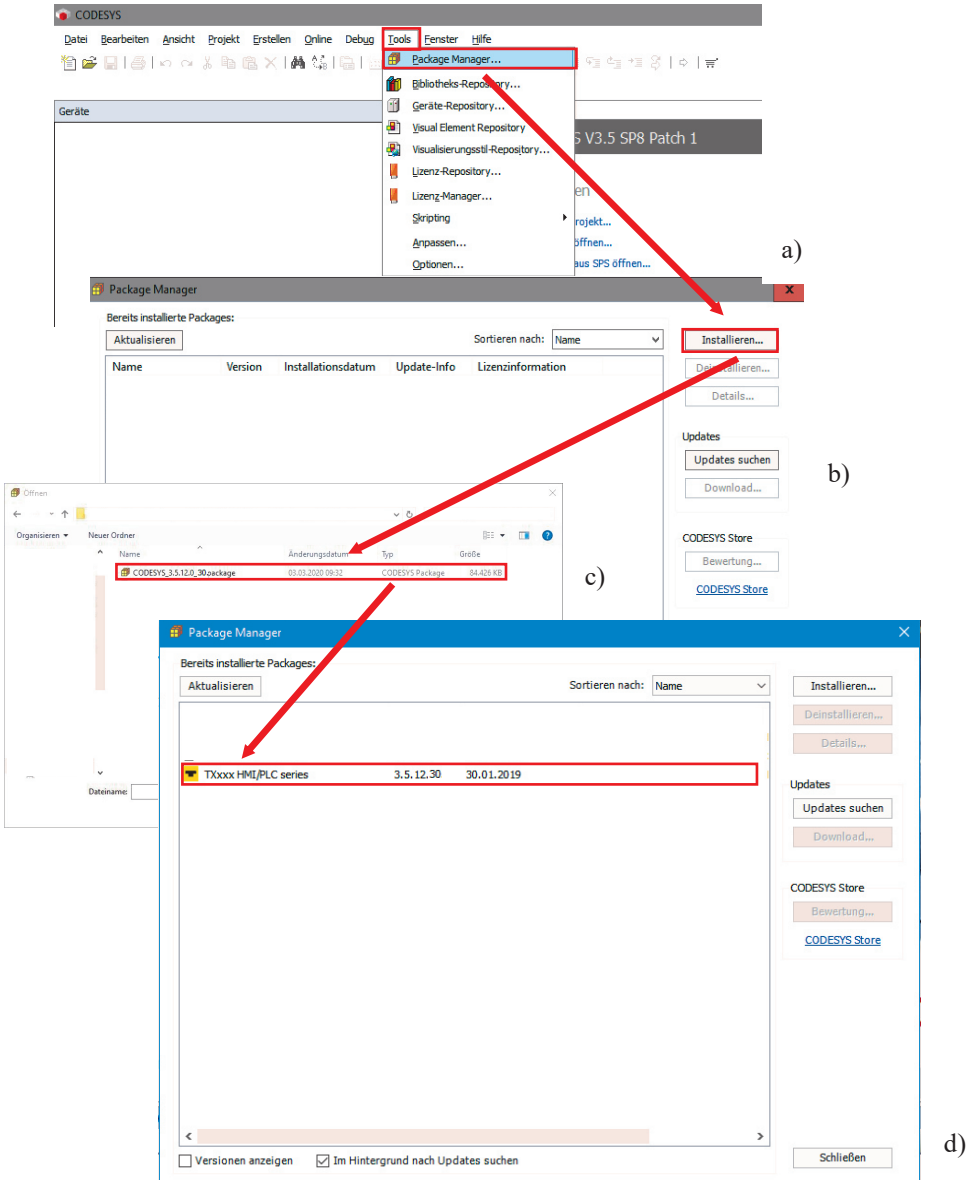


Figure 1: Installation of the HMI package

4. Creating a new project

First of all, start CODESYS. Click *New Project* and select *TX HMI Device* (see figure 2). Assign a project name and save location and confirm with *OK*. In the following window select a *HMI designation according to table 1* as device, choose the display mode *Landscape* (horizontal) or *Portrait* (vertical) and select the programming language in which you would like to program the HMI Lite (see figure 3).

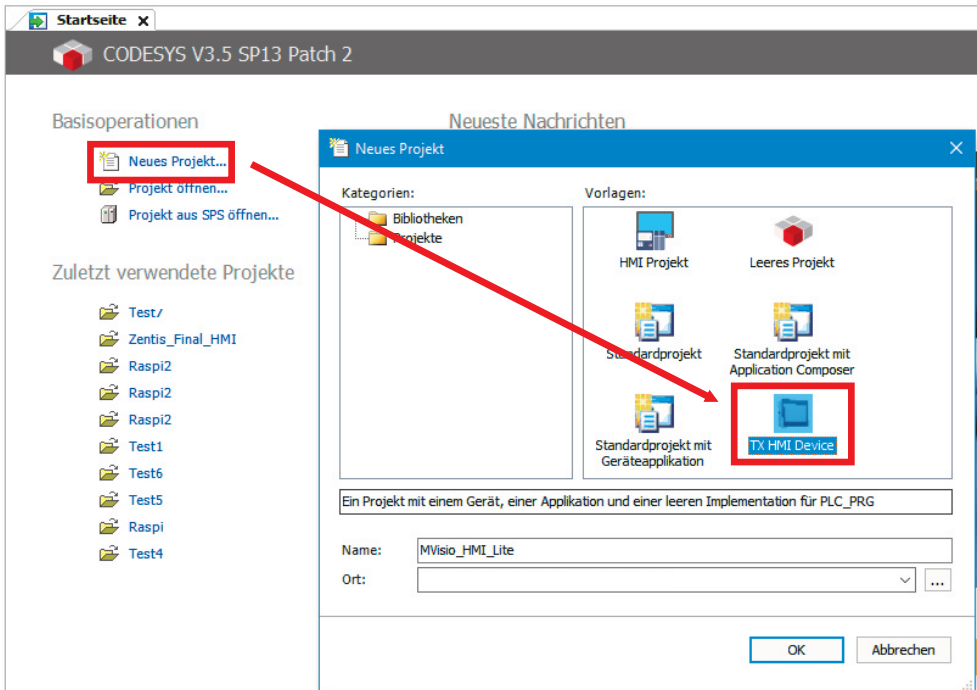


Figure 2: Creating a new project file

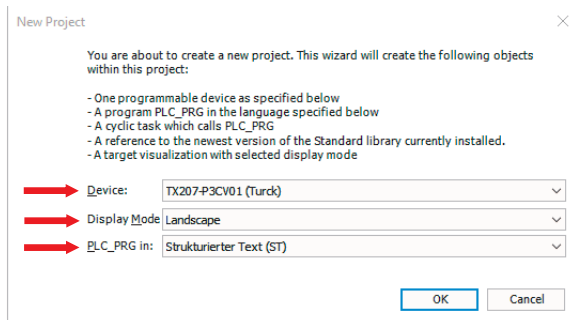


Figure 3: Configuration of the project

Designation	MVisio
TX507-P3CV01	MVisio 7"
TX207-P3CV01	MVisio Lite
TX705-P3CV01	MVisio Pro 5"
TX707-P3CV01	MVisio Pro 7"
TX710-P3CV01	MVisio Pro 10"

Table 1: Designation of MVisio devices in Codesys configuration

5. Assigning an IP-address to the MVisio HMI Lite/ Pro

First of all the MVisio HMI Lite needs to be connected to a PC using a customary Ethernet cable and either the X7 or X8 port of the HMI Lite.

The MVisio HMI Lite will automatically start when DC 24 V is applied. While starting, tap the screen with a frequency of at least 2 Hz to enter the "Tap-Tap-mode". If the "Tap-Tap-mode" has been detected, the screen will show "Tap-Tap-Detected". Click *System settings* - *Network* - *Network interfaces* to show the current Ethernet configuration. Click *Edit* to change the settings and assign an IP-address and subnet mask to the HMI Lite/Pro (see figure 4).

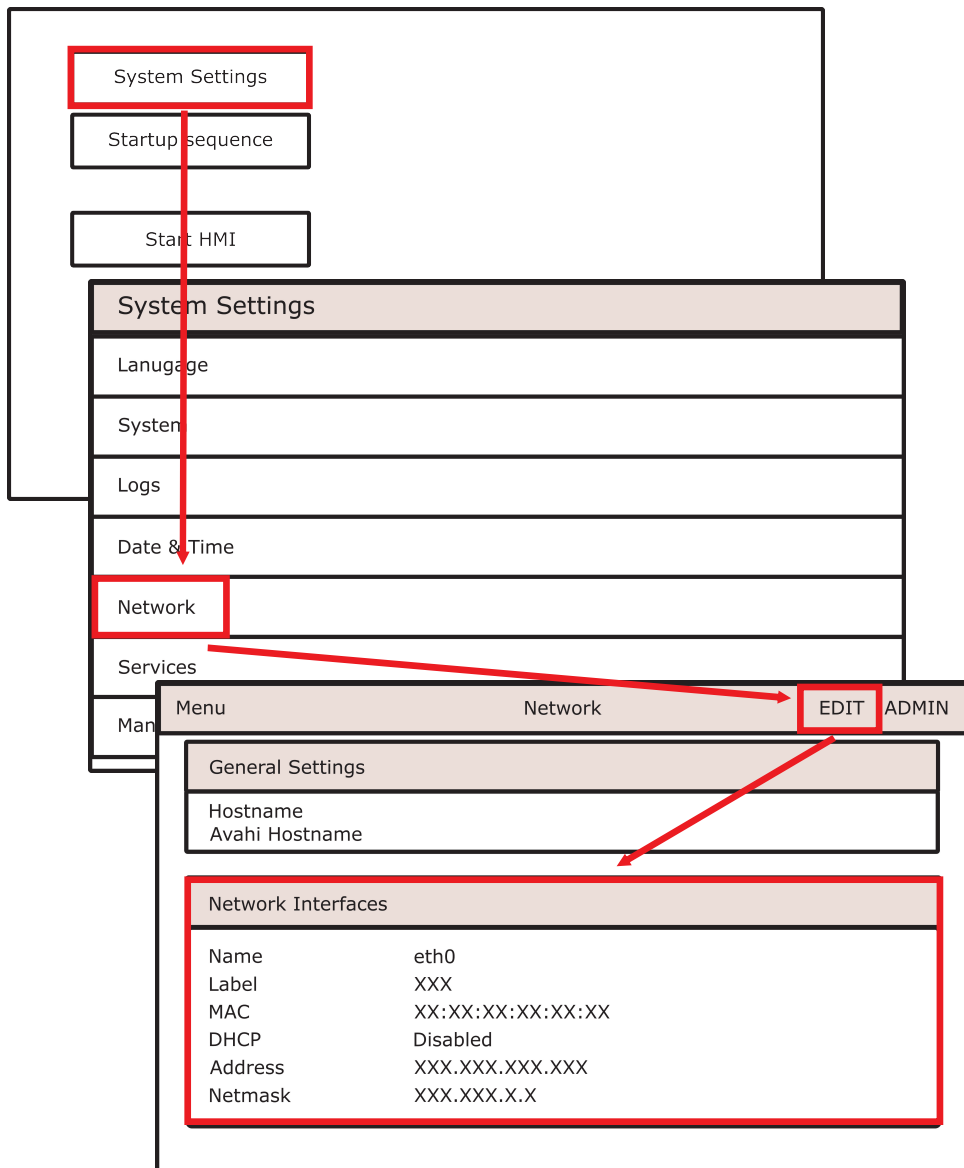


Figure 4: Assign an IP-adress to the MVisio HMI Lite/Pro

6. Integrating the MVisio HMI Lite/Pro into Codesys

Open the device window in CODESYS by double-clicking *Device* (TX207-P3CV01/ TX707-P3CV01/ TX705-P3CV01) in the device tree. Click *Search network* and in the device selection menu TX207-P3CV01/ TX705-P3CV01/ TX707-P3CV01 and confirm with OK (see figure 5). If the integration has been successful, the device will show up with a green dot and more details (see figure 6).

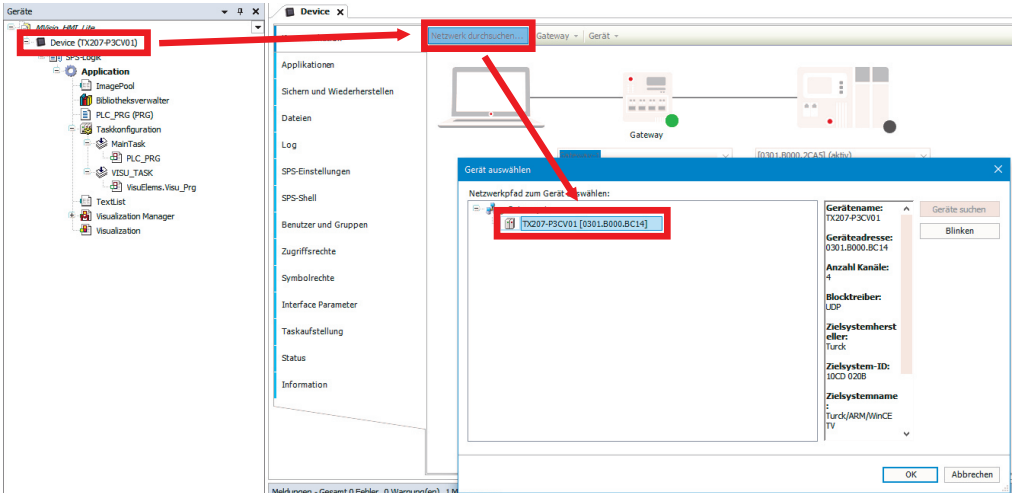


Figure 5: Device Window



Figure 6: Successful integration of the MVisio HMI Life/Pro in Codesys

7. Notes