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## Remote control functions, related software and customer support

- Most of Ekspla products today provide one or more external interfaces to allow remote product control by external software.
- This document provides common information about connection types, software and support.
- The disk contains software for control and writing custom applications support of the Ekspla product. Software package is build for particular product type and particular serial number. You will find product identification info in DiskInfo.txt file.

## CAN network connection

- CAN network connection is dedicated for remote control by PC or industrial control system.

### Supported systems

- Windows 2000, XP, Vista, 2008, 7, 8, 10 both 32bit and 64bit are supported out of box.
- Mac users may get connection work out of box by using Boot Camp and Windows installation.
- Native Mac OS X, Windows CE.NET (Version 4.2 and greater) users may use connection, but have to write communication stack from the scratch.
- The best way in Linux to get connected is to use SocketCAN. For this any USB to CAN module, that supports SocketCAN can be used. We are recommending SYS TEC Electronic USB-CANmodul1 (SYS-3204001). Info about SocketCAN: <http://en.wikipedia.org/wiki/SocketCAN>. Please note, USB to CAN module made by Ekspla currently do not support SocketCAN.
- Non windows industrial control systems are supported by writing custom software. For example, CAN Open protocol may be used in order to connect Ekspla products directly to PLC.

### Description

- Ekspla products are organized as set of smart modules dropped on a single serial bus - CAN bus. CAN network connection links to an internal bus and uses internal proprietary communication language.
- PC have to be connected through a module acting as bridge between CAN and bus, that PC understands: USB, RS232, etc in order to control remotely. Ekspla by default provides hardware bridge for all products having CAN bus inside. Most of DPSS laser have CAN to USB bridge incorporated to power supply. Flash lamp pumped and some of DPSS lasers are connected through isolated USB to CAN module or CAN to RS232 bridge.
- Remote control software runs independently on hardware used to connect PC to CAN bus as long as Ekspla provided hardware is used. From third party hardware, USB-CANmodul1 from SYS TEC Electronic partially is supported.
- Remote control implemented through DLL calls. To support customer development, LabVIEW and C++ applications together with source codes are provided. Some Delphi and Visual Basic examples, that are not product specific and intended for demonstration of concept, are provided too.
- Remote control function set is highly configurable.

### Software list, CAN network folder.

1. **CAN browser.** Installable test, diagnostic and servicing windows executable utility „CAN browser” .
2. **Control panel application.** Windows executable control application together with C++ sources, released under GNU license. Application functionality is similar to LabVIEW counterpart.
3. **LabVIEW drivers.** LabVIEW remote control application for windows.
4. **Remote Control test utility.** Universal executable utility to test remote control functions and configuration files.
5. **UniPG VX.XX.** OPG control and calibration utility. Ignore this folder in case your system is delivered without optical parametric generator.
6. **Demo Sources.** Delphi, Visual Basic, VC examples, that are not product specific and intended for demonstration of concept. Will not work without some modifications.
7. **REMOTECONTROL64.** 64bit libraries and test executable.

### Documentation

1. Installation instructions, getting started manual of supplied software. Application Help function.
2. Header file of remotecontrol.dll .
3. Application examples sources
4. Protocol description is available on request.

## Customer technical support

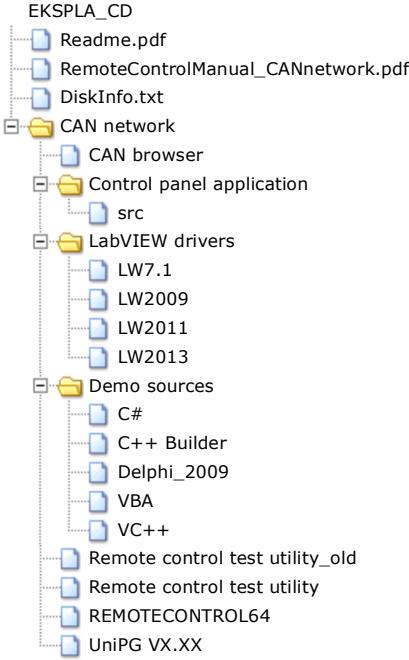
1. Installing, running and using of supplied software is supported.
2. Customer software development support for USB control is available at additional cost.

## Installation

- Software installer is supplied for CAN browser and USB drivers only. Rest of the software will run from folder copy to hard or removable disk.
- In order to install USB drivers and CAN browser run:

Path CD folder\CAN network\CAN browser\CANbrowserSetupXXX.exe.

## Standard software disk layout



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