

User's Guide

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1. Introduction.

1.1 Scope

This document is applicable to the **Professional** edition of the QR Code Decoding SDK compiled in Linux 2.6 64 bit environment.

SDK delivery package is notated as **QRC_PRO_Linux_64_X**, where X:=”o” or “so”, differentiates between dynamic and static libraries, and notation “64” means 64 bit version of Linux. Both static and dynamic libraries are available:

- **icQRCode_Pro.o** – static library
- **libcQRCode_Pro.so** – dynamic library

Library interface and its features are the same as for the Windows version. They described in detail in the User's Guide “**QR Code Decoding SDK (Professional Edition) - Rev. 06/12**” (<http://www.2dtg.com/products/sdk-datamatrix>).

The library is designed to decode QR Codes in accordance with ISO/IEC 18004 Symbology specification. Symbol quality assessment is provided in accordance with ISO/IEC 15415 standard.

Trial SDK (delivery package notated as **DM_EP_Linux_64_X_Trial**) is fully functional but some characters in the decode output are replaced with asterisks.

QR Code Decoding SDK

(Professional Edition, Linux 64 bit)

1.2 Normative references

ISO/IEC 18004 - Symbology specification - QR Code
ISO/IEC 15415 - Symbol quality - Two-dimensional symbols

2. SDK composition

2.1 Static Library Package – “QRC_PRO_Linux_64_o”

Decoding SDK package contains:

1. Static Library **icQRCode_Pro.o**, designed to perform symbol search, recognition and decoding.
2. Source codes of the demo program (that calls library) that illustrate its usage, as follows:
 - **QRPro_Types.h** - header file that describes library interface
 - **Demo.cpp** - source code of sample application that uses QRC library
 - **LoadBMP.c, LoadBMP.h** - the functions for loading "BMP" files
3. Executable file:
 - **demo_pro.out** - demo application built using Demo.cpp source code.
4. **Read Me** – file (if required)
5. This User’s Guide

2.2 Dynamic Library Package – “QRC_PRO_Linux_64_so”

Decoding SDK package contains:

1. Dynamic Library **libicQRCode_Pro.so**, designed to perform symbol search, recognition and decoding.
2. Source codes of the demo program (that calls library) that illustrate its usage, as follows:
 - **QRPro_Types.h** - header file that describes library interface
 - **Demo.cpp** - source code of sample application that uses QRC library
 - **LoadBMP.c, LoadBMP.h** - the functions for loading "BMP" files
3. Executable file:
 - **demo_pro_so.out** - demo application built using Demo.cpp source code.

4. **Read Me** – file (if required)
5. This User's Guide

3. Deployment

3.1 Static Library Package – “QRC_PRO_Linux_64_o”

- Unpack all files into the same directory.
- Set rights for the "executable" to the file "**demo_pro.out**".
- Run "**demo_pro.out**".

- Source codes of **.c** and **.h** files show how the library functions should be called. Build Linux demo application using the command:

```
g++ Demo.cpp icQRCode_Pro.o -m64 -lm -o mydemo.out
```

- After completing compilation that would generate instant executable program "**mydemo.out**" you can run it the same way as it's described above for "demo_pro.out".

3.2 Dynamic Library Package – “QRC_PRO_Linux_64_so”

- Unpack all files into the same directory.
- Copy **libcQRCode_Pro.so** to **../usr/lib**.
- Set rights for the "executable" to the file "**demo_pro_so.out**".
- Run "**demo_pro_so.out**".

- Source codes of **.c** and **.h** files show how the library functions should be called. Build Linux demo application using the command:

```
g++ Demo.cpp -rdynamic -ldl -m64 -lm -o mydemo.out
```

- After completing compilation that would generate instant executable program "**mydemo.out**" you can run it the same way as it's described above for "demo_pro_so.out".