

Managing DMX 512 QLC lighting on RASPBERRY PI

So when you need to budget and adjust the light, managing remotely from a tablet or laptop. All that I write below is a purely budgetary solution, which will have to be a little tricky ~~brainwashing~~. But the end result is worth it.

Raspberry pi QLC+ deb install

Thanks to Menshikov Ilya for the finished assembly. You can download the installation DEB file on the page [QLC+ deb install for Raspberry pi and Orange Pi Version: 4.12.7 2023](#)

What you need

- Raspberry PI B ++, RASPBERRY PI 2 or RASPBERRY PI 3 (It is possible to obtain and Orange PI)
- WI-FI Whistle
- Udmx or ARTnet interface
- Patience
- Flash memory card

Flash drive for RASPBERRY must be at **least 6 class**, and its minimum size is not lower than 4 GB of memory. **Better Flash 10 class**. *I tried 6 classes on 8 GB, I did not start, raspberry is very capricious to flash drives*

Customizing Raspberry PI

We will configure and download everything on Windows 7 (*or on any other Windows, I configured it on 64bit*)

Download

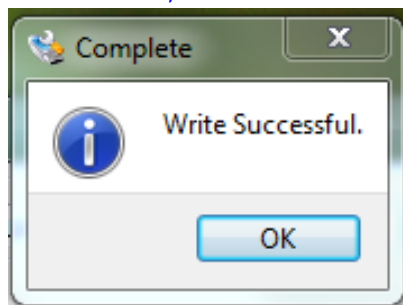
1. [OS RASPBIAN JESSIE QLC+](#)(Ready my image with QLC+ RASPBIAN + XTE)
2. [Program for writing to RASPBIAN on a USB flash drive Win32diskimager](#)
3. [PuTTY](#)

Установка RASPBIAN

Unzip **RASPBIAN JESSIE WITH PIXEL** (we should get a file with the extension .img) Install and open the program Win32diskimager, and first we will select a USB flash drive where we will write the system, after we select our unzipped file, and click the Write button (*write*)

In order to enable SSH access, we need to create a `ssh` or `ssh.txt` file in the root of the flash drive

After completing the recording on the flash card,



Go to it and create a file **wpa_supplicant.conf** (This file is responsible for configuring the network)
In it we will see the following:

```
network={
ssid="YOUR_NETWORK_NAME"
psk="YOUR_NETWORK_PASSWORD"
proto=RSN
key_mgmt=WPA-PSK
pairwise=CCMP
auth_alg=OPEN
}
```

Ssid = «YOUR_NETWORK_NAME» is the name of our WI-FI network (*YOUR_NETWORK_NAME change to your*)

Psk = «YOUR_NETWORK_PASSWORD» - the password of our network (*YOUR_NETWORK_PASSWORD should change to your password*)

Proto = RSN - to protect your network, it can be **WPA1** or **WPA2** (for WPA2, it uses RSN , and for WPA1 it's just WPA in most cases this parameter track not necessary).

key_mgmt=WPA-PSK - The parameter is responsible for encrypting the password, **WPA-PSK** (in most cases) or **WPA-EAP** (in corporate networks) (*parameter too tracking does not follow*)

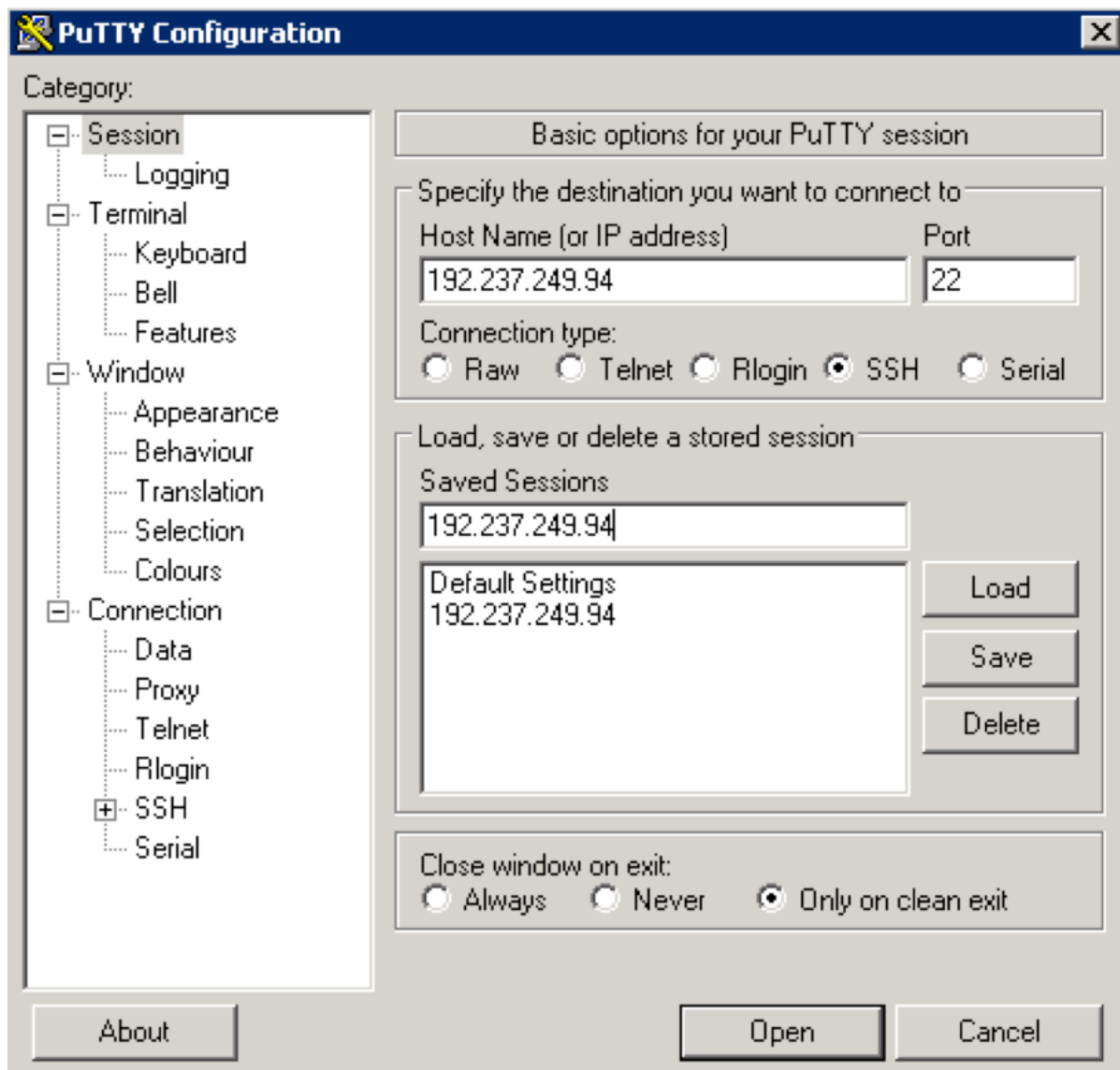
Pairwise = CCMP - for **WPA2** leave CCMP , for **WPA1** change to TKIP

Auth_alg = OPEN - leave it as it is.

After setting up and connecting RASPBERRY PI at boot, the WI-FI whistle should light up. Check the connection of raspberries, you can in the settings of the router.

Connect with SSH

When we learned the IP address of our raspberry, run PUTTY and connect to SSH



And after a successful connection, the raspberry will ask for the login and password



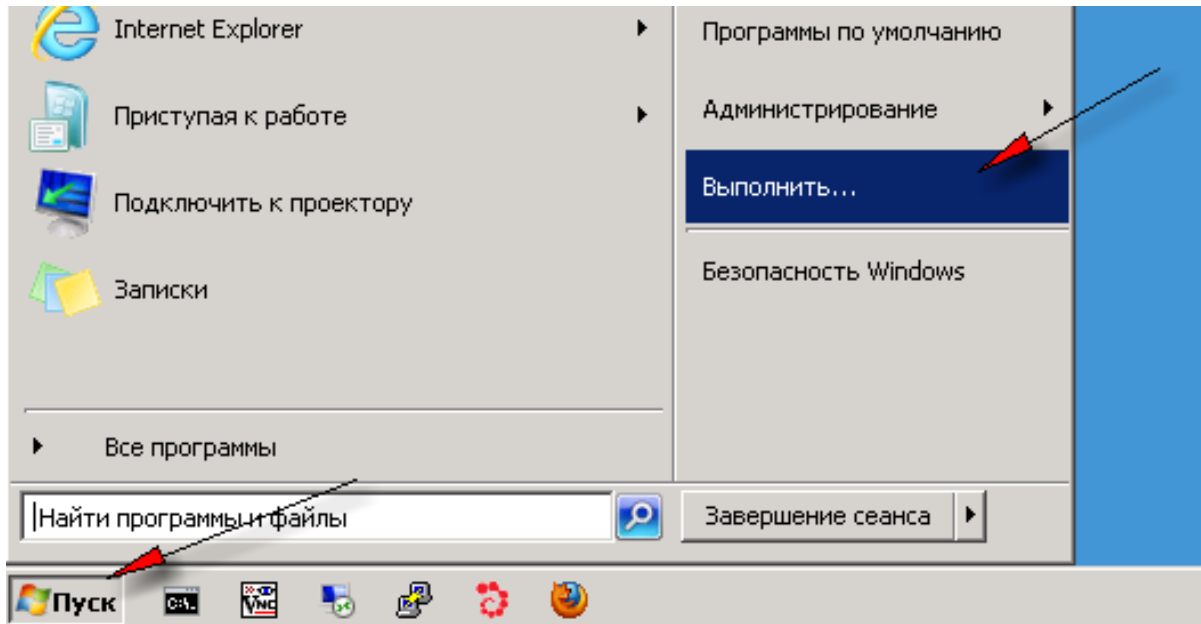
Default:

Login: **pi**

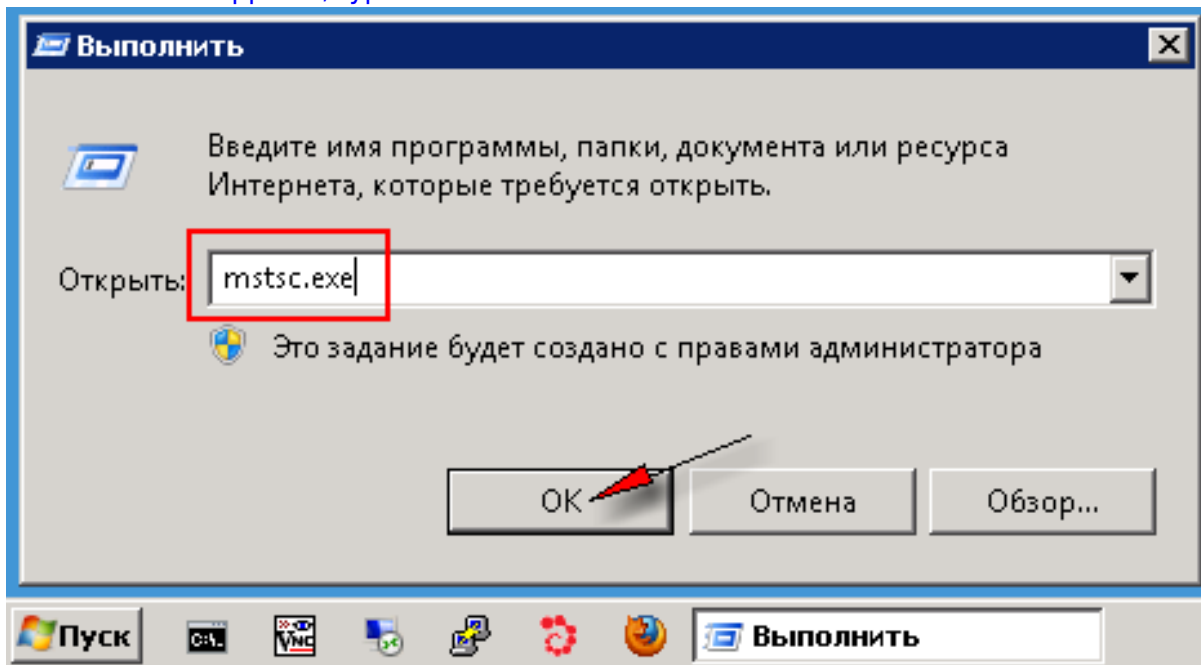
Password: **dmx-512.ru**

RDP Connection

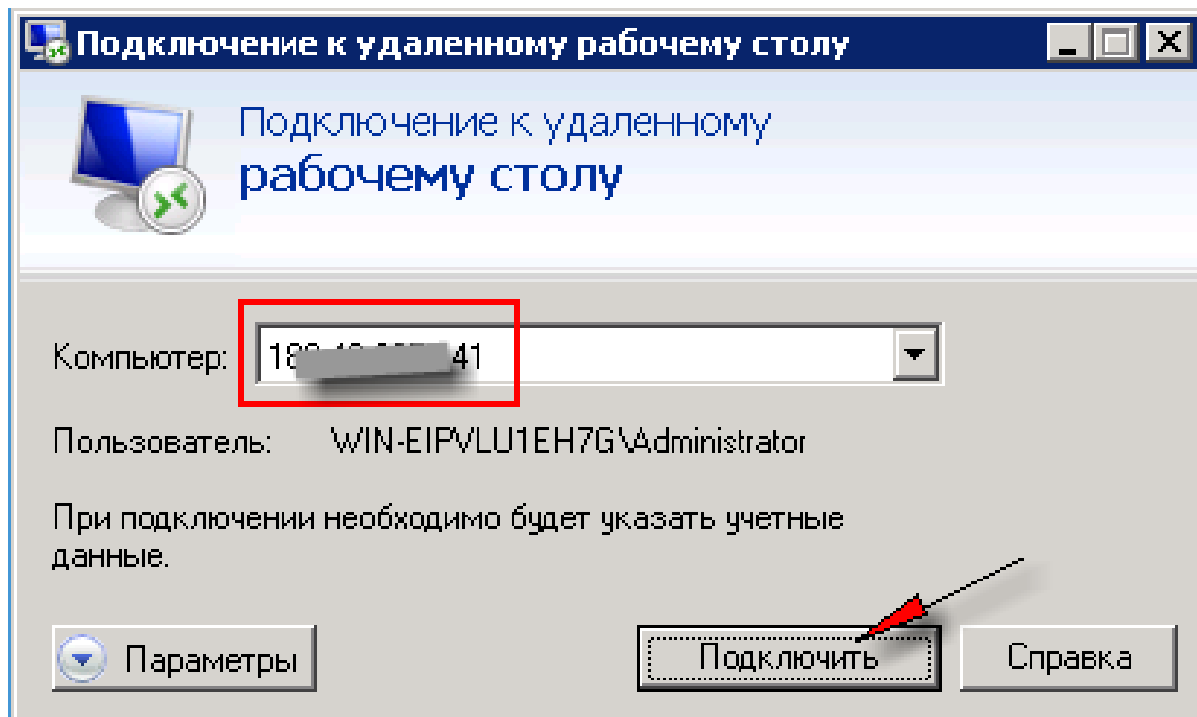
To run the RDP client under Windows, run on your computer: 1. Press the menu « **Start** » (« **Start** »)
→ select the item « **Run ...** » (« **Run...** ») (или нажмите сочетание клавиш **WIN+R**):



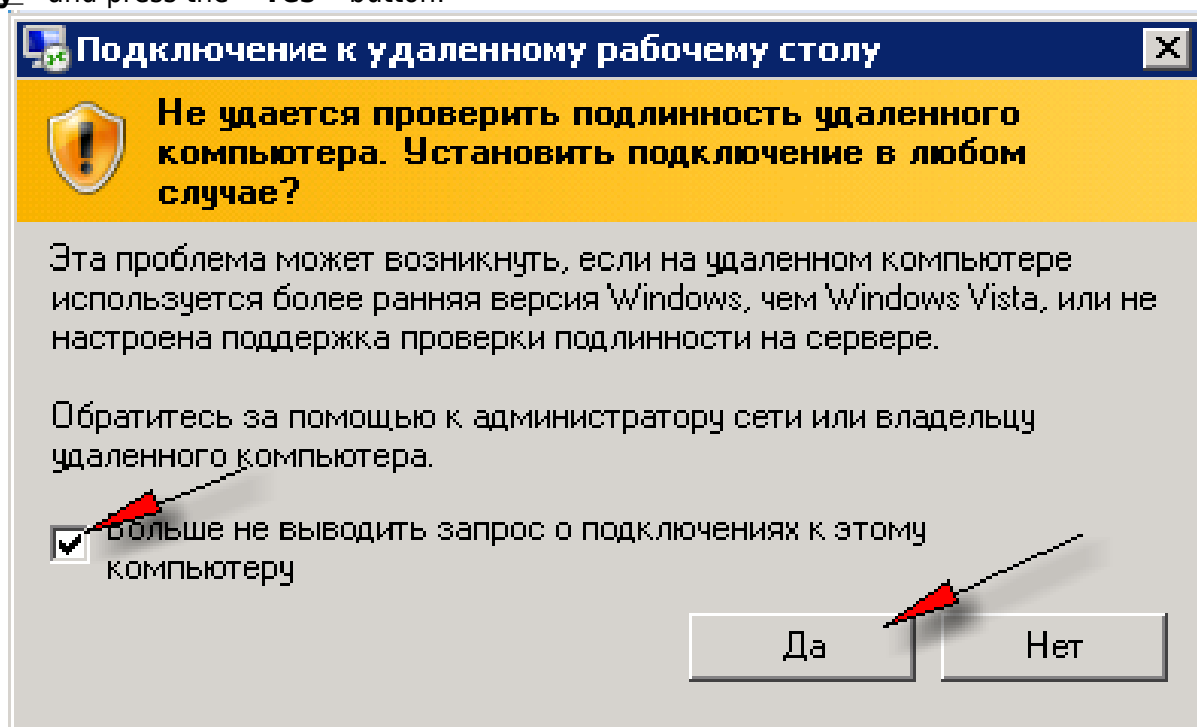
2. In the window that appears, type **mstsc.exe** and click « **OK** »:

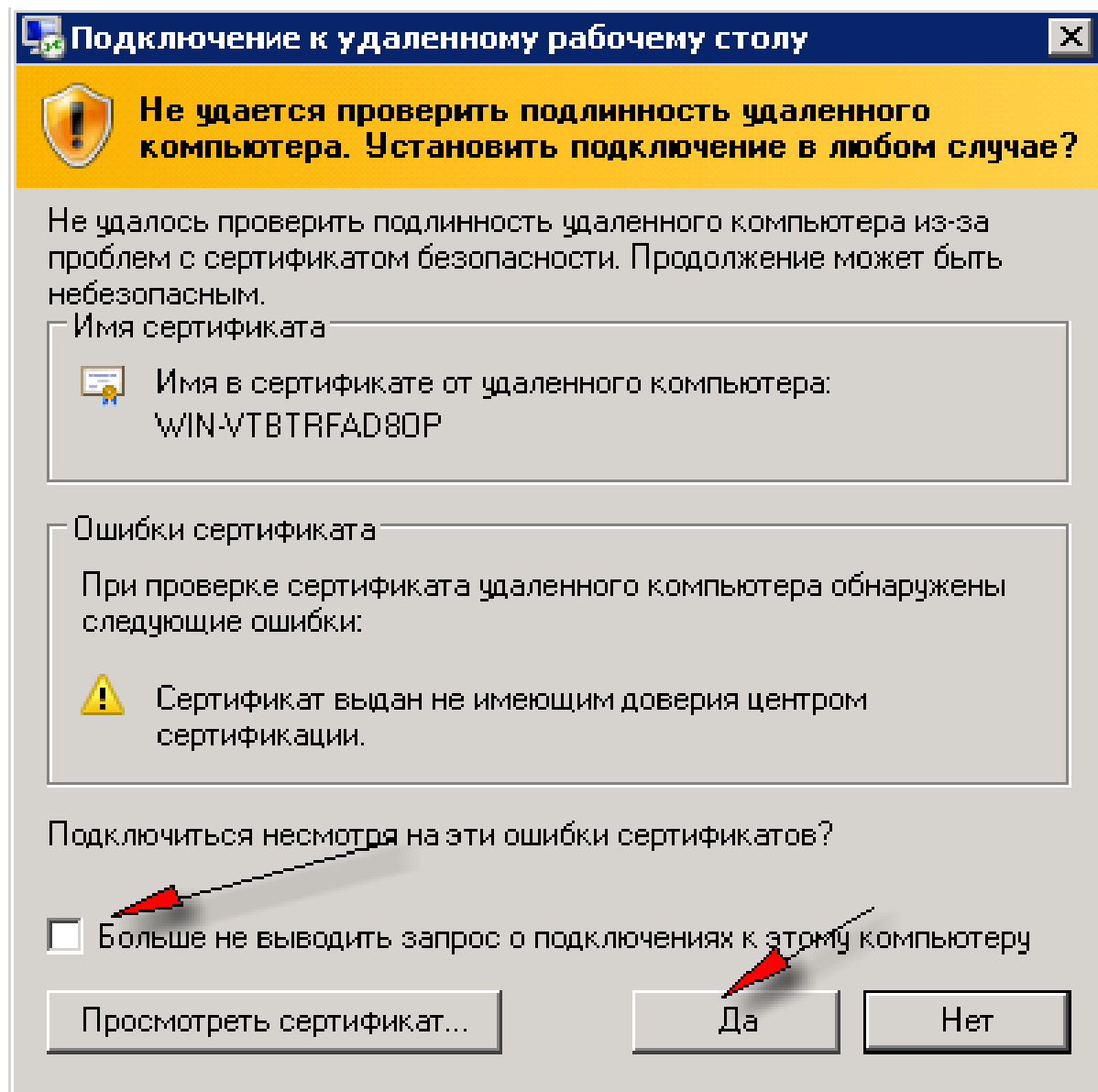


3. Enter IP address RASPBERRY in the field « **Computer** » and press the button « **Connect** »:



4. If the « **can not be authenticated** » window appears, check the box « **no longer display the query** » and press the « **Yes** » button:





From:
<https://dmx-512.ru/> - **DMX512.RU Управление светом**

Permanent link:
https://dmx-512.ru/en/soft/qlc/qlc_raspberry

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