

# 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

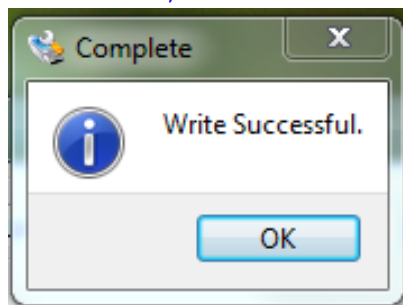
1. [OS RASPBIAN JESSIE QLC+](#) (Ready my image with QLC+ RASPBIAN + XTE )
2. [Program for writing to RASPBIAN on a USB flash drive Win32diskimager](#)
3. [PuTTY](#)

### 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* )

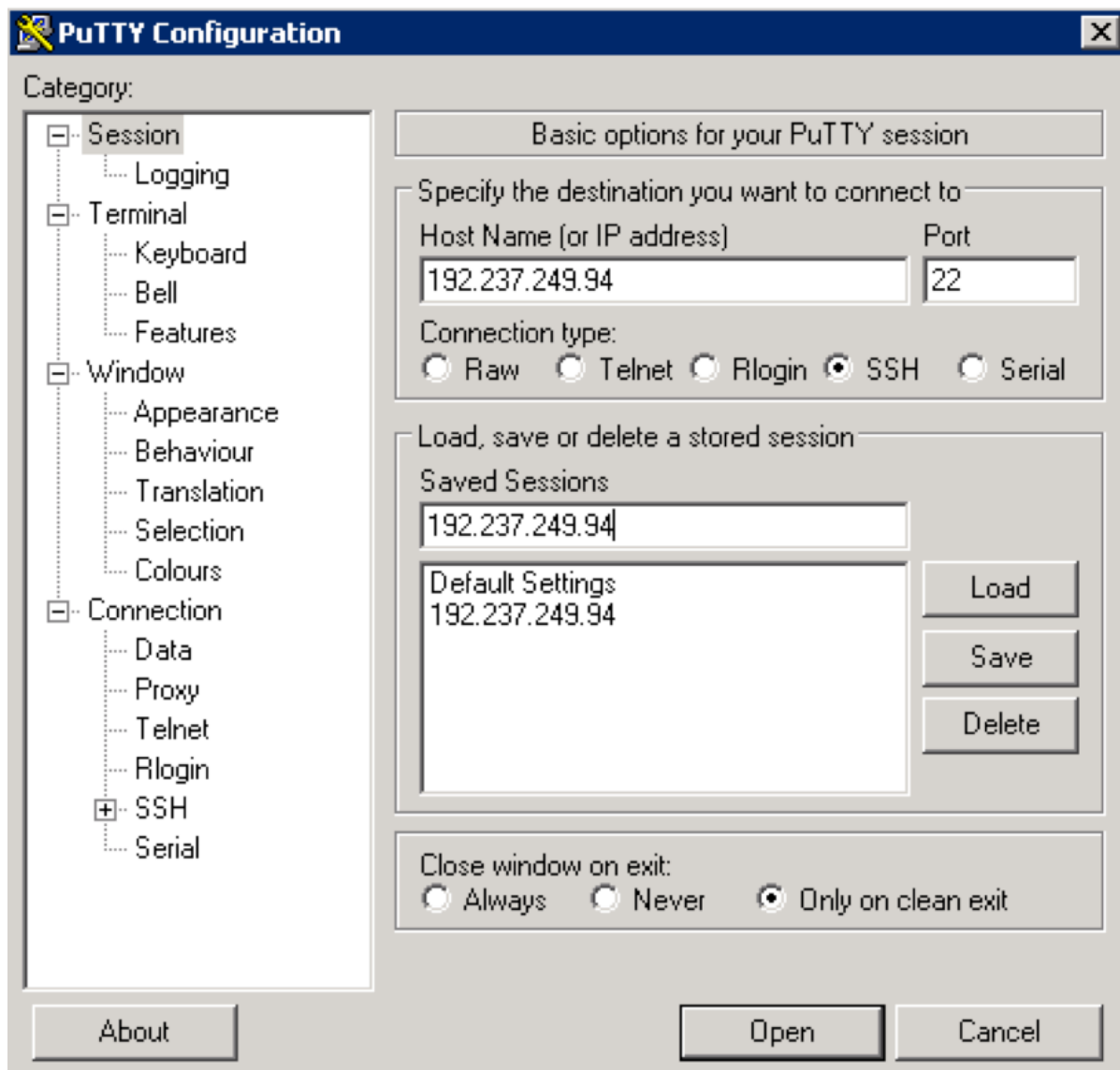
Pairwise = CCMP - for **WPA2** leave CCMP , for **WPA1** change to TKIP

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



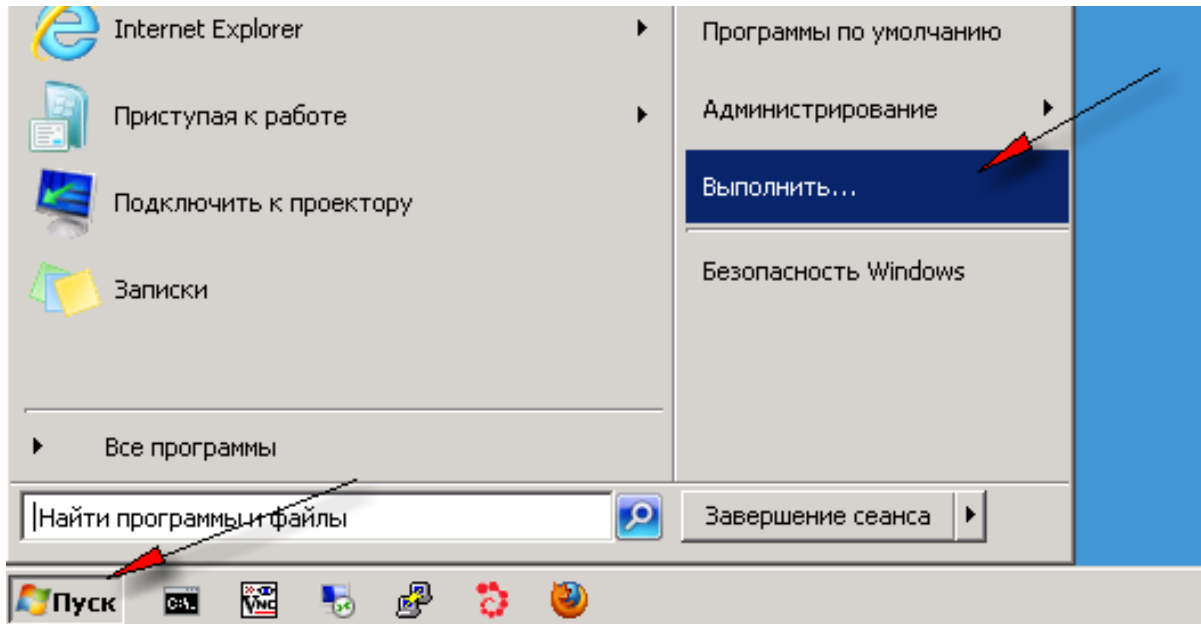
Default:

Login:**pi**

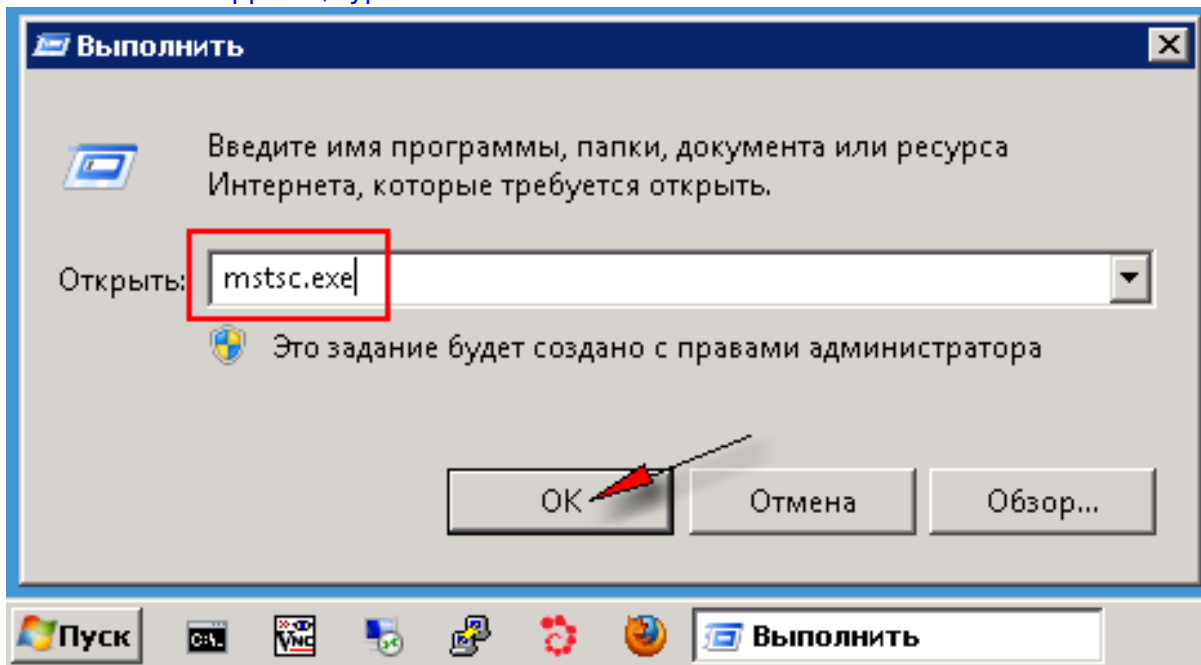
Password:**dmx-512.ru**

## RDP Connection

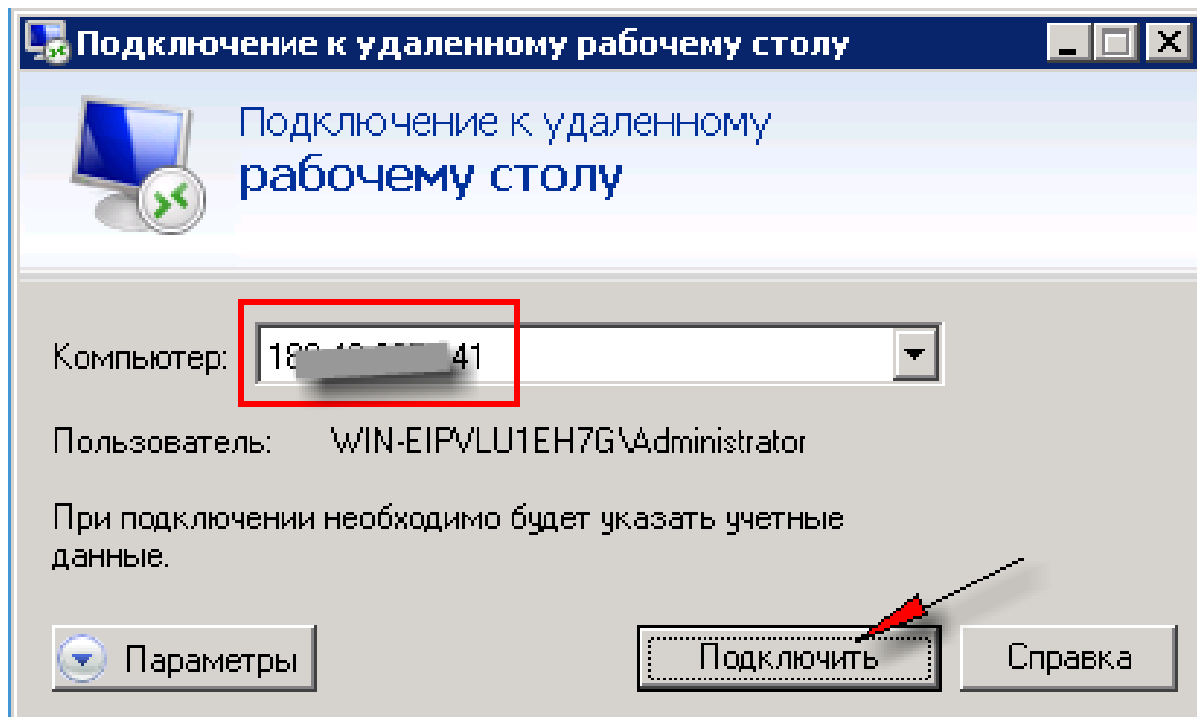
To run the RDP client under Windows, run on your computer: 1. Press the menu « **Start** » (« **Start** »)  
→ select the item « **Run ...** » (« **Run...** ») (или нажмите сочетание клавиш **WIN+R**):



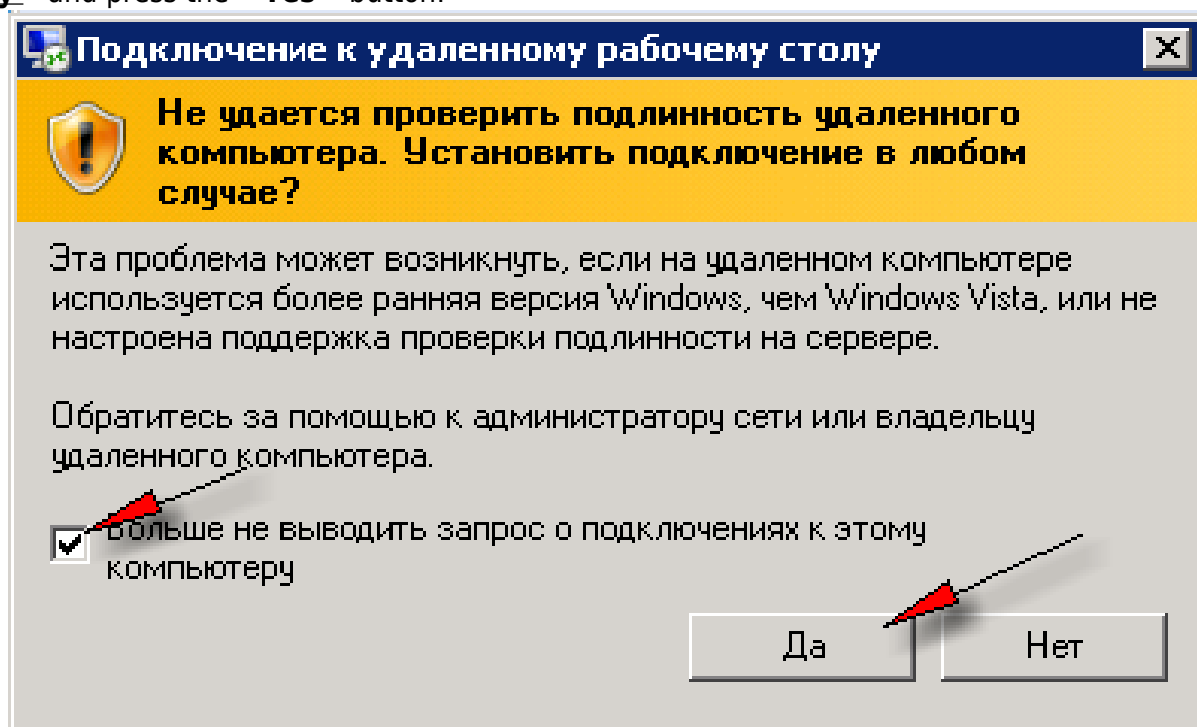
2. In the window that appears, type **mstsc.exe** and click « **OK** »:

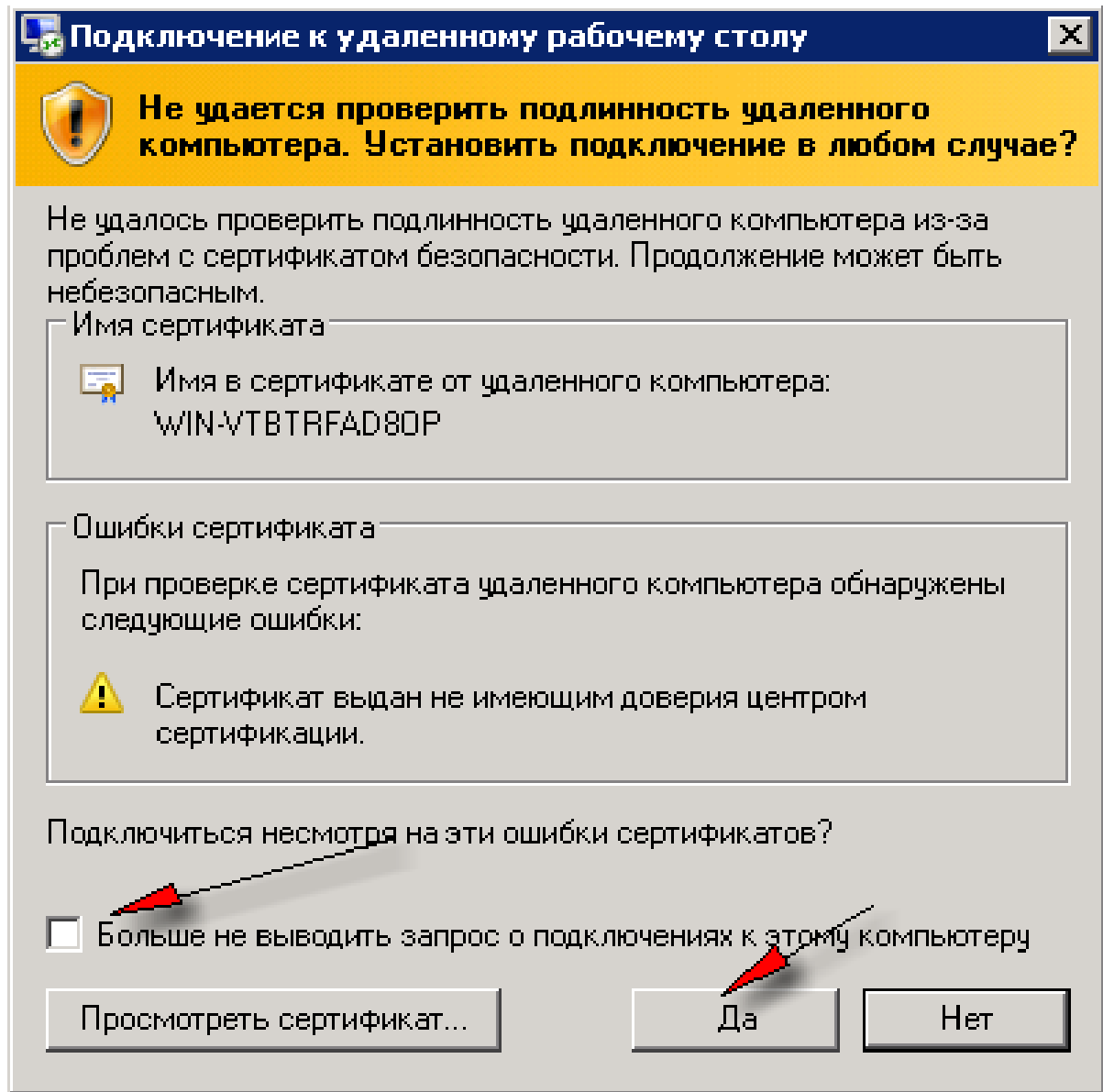


3. Enter IP address RASPBERRY in the field « **Computer** » and press the button « **Connect** »:



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?rev=1673099228](https://dmx-512.ru/en/soft/qlc/qlc_raspberry?rev=1673099228)

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