



INSTRUCTIONS TO INSTALL ADDITIONAL FILES FOR THE "NEURAL NETWORK DETECTION UNIT"

- 1.** Install the **PHOTOMOD Radar** distribution package version **2.3 or higher**.
- 2.** Depending on the version of your computer's operating system, download the corresponding archive with additional files for neural network processing from the Racurs website:

- **Windows 10** (https://racurs.ru/downloads/Radar/Radar_Neuro_Win10.zip)
- **Windows 11** (https://racurs.ru/downloads/Radar/Radar_Neuro_Win11.zip)

- 3.** Each archive includes the following files:

- **cuda_build_OS.exe** - tools for parallel computing
- **SARTectron.rar** – an archive with libraries for neural network processing adapted to the operating system version and the Cuda version
- **NeuralNets.rar** – archive with configuration files (.conf) and neural network weights files (.pth).

The files are grouped by the type of objects to be detected (*Ships, Airplanes, Oil Pumps*) and by the type of images on which the specified weights were trained.

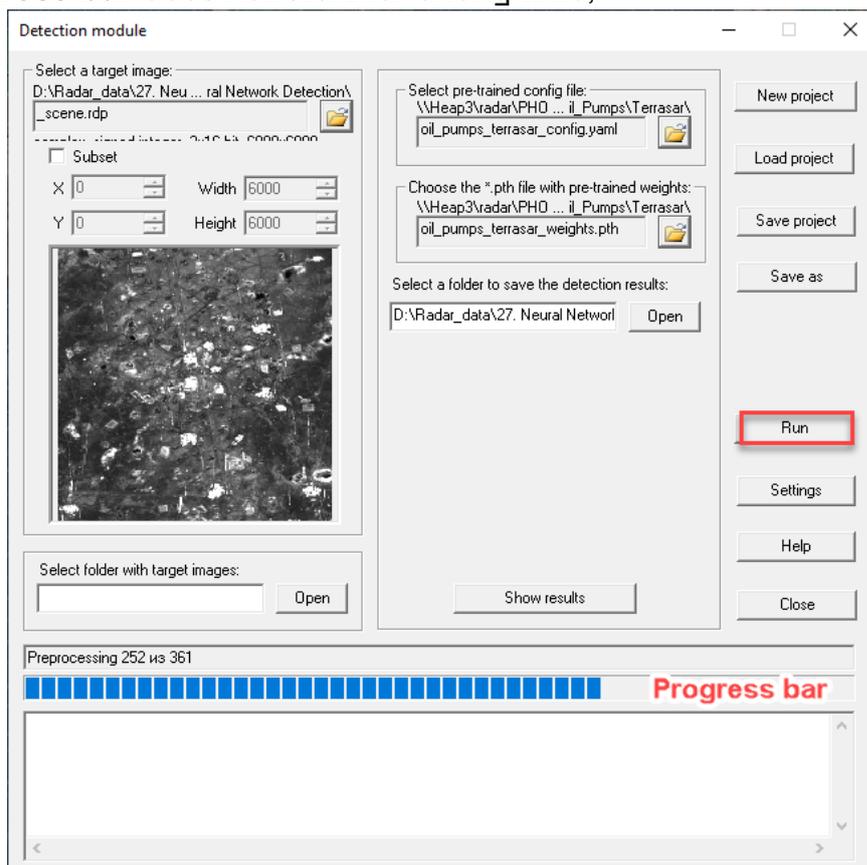
- 4.** Unzip all the archives to the folder with the installed PHOTOMOD Radar
- 5.** Install the **cuda_build_OS.exe** distribution package



INSTRUCTIONS TO SOLVE PROBLEMS WITH LAUNCHING THE OBJECT DETECTION MODULE USING THE NEURAL NETWORK METHOD

If, in the «**Detection Using N.N**» tool window, after entering all the necessary parameters and clicking the "**Run**" button one of the following events occurs:

- a) the **progress bar** does not start for a long time;

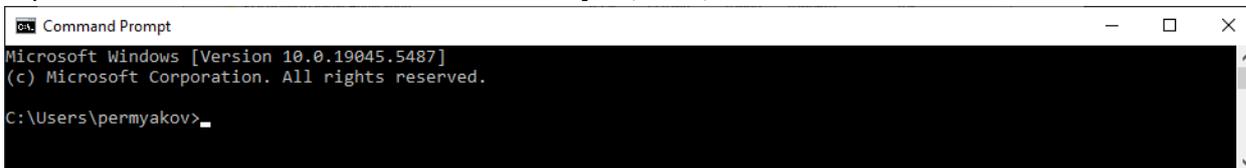


- b) **PHOTOMOD Radar** process does not show activity in the **Windows Task Manager**

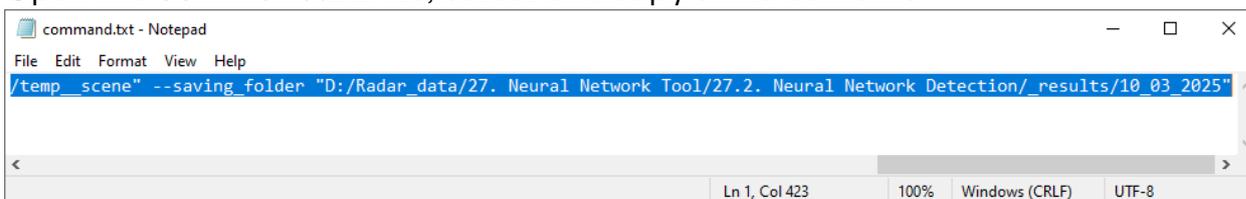
Name	St...	58%	58%	4%	71%	0%	GPU engine
		CPU	Memory	Disk	Network	GPU	
PHOTOMOD Radar Application ...		45,6%	2 409,0 MB	0 MB/s	664,5 Mbps	0%	
SARTectron.exe		0,6%	1 365,3 MB	0 MB/s	664,5 Mbps	0%	
SARTectron.exe		45,0%	789,1 MB	0 MB/s	0 Mbps	0%	
SARTectron.exe		0%	102,3 MB	0 MB/s	0 Mbps	0%	
SARTectron.exe		0%	102,2 MB	0 MB/s	0 Mbps	0%	
PHOTOMOD Radar Application		0,1%	38,1 MB	0 MB/s	0,1 Mbps	0%	
Console Window Host		0%	6,1 MB	0 MB/s	0 Mbps	0%	
Console Window Host		0%	6,0 MB	0 MB/s	0 Mbps	0%	

Check the contents of the folder that you set to save detection results. A **«command.txt»** file should appear in it. Next:

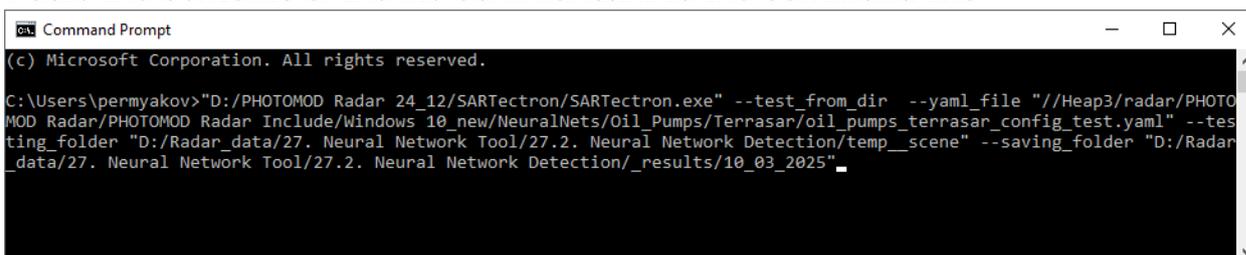
1. Open the Windows Command Prompt (cmd)



2. Open the command.txt file, select and copy all its contents

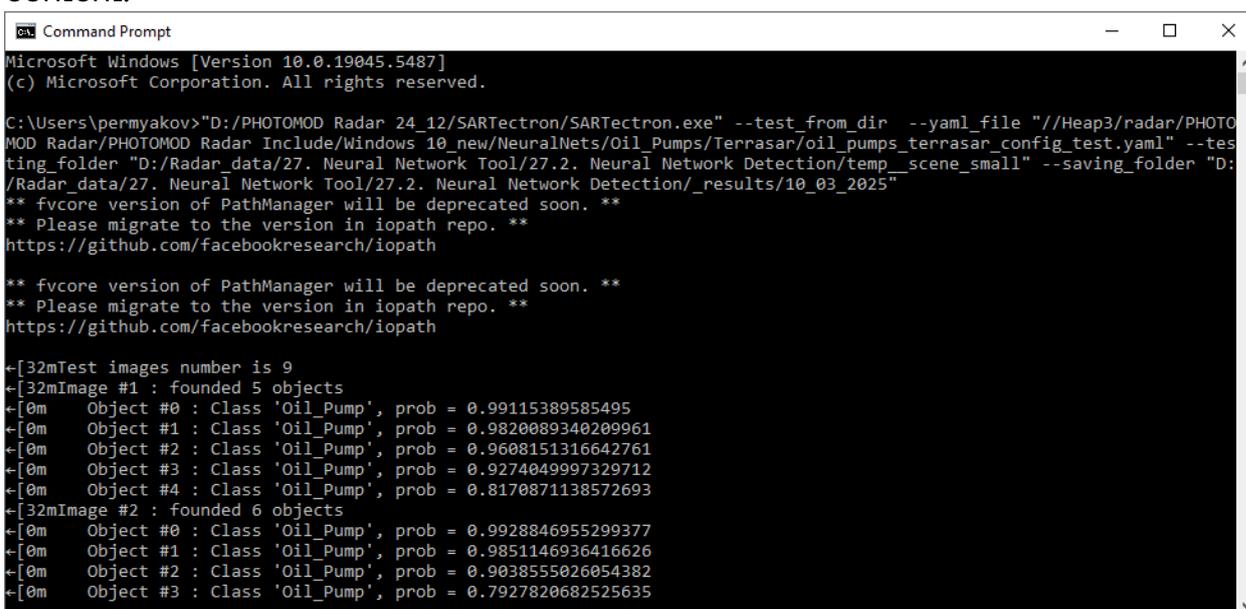


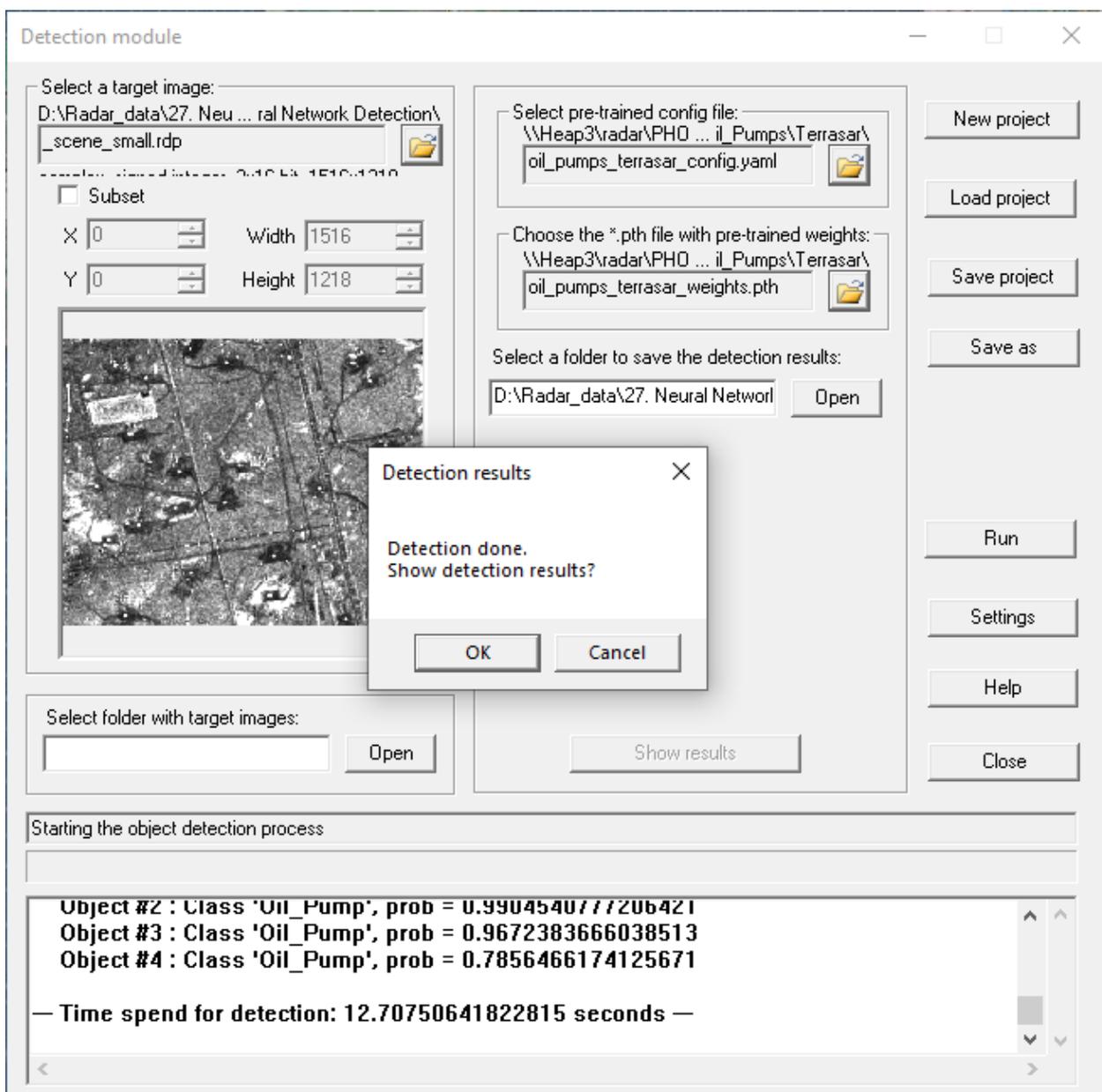
3. Paste the contents of the file command.txt to the command line



4. Press Enter.

If the detection process has started, you will see windows with the following content.





If the **command.txt** file does not appear in the output folder or the detection process does not start even after command line operations, do the followings:

1. Take a screenshot of the **Windows Command Prompt** with the error
2. Find out the version of your computer's operating system, as well as the type of graphics card installed on it, and send them, along with a screenshot, to PHOTOMOD Radar technical support: **dzz@racurs.ru**