



190q-7e-2-Jetson-Nano-OS-Setup-v1-YY- 2023-5-26.odp

Version: 1.0

Date: May 26, 2023

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*Approved for release for user/
technical support*



Jetson Nano Developer Kit (May 26)

Board and OS Spec:

OS: Nvidia L4T 32.5.1 / Jetpack 4.5.1

Jetson Nano 4GB Model Developer kit: P3450



Jetson Nano Without HDMI Monitor Connection (May 26)

<https://jetsonhacks.com/2016/05/03/jetson-allow-graphics-without-hdmi/>

The issues are followings;

1. The boot sequence does not finished without HDMI monitor
2. X11 graphics manager is not loaded.



Edit X11 Window System Manager Startup (May 26)

<https://jetsonhacks.com/2016/05/03/jetson-allow-graphics-without-hdmi/>

To allow X11 to startup without a monitor attached.

Edit /etc/X11/xorg.conf

Section "Device"

Identifier "Tegra0"

Driver "nvidia"

Allow X server to be started even if no display devices are connected.

Option "AllowEmptyInitialConfiguration" "true"

EndSection

Note: AllowEmptyInitialConfiguration option also exists in /etc/X11/xorg.conf.jetson_e, which is "true" by default.

Disable GNOME screen saver and X11 screen saver being covered in the following pages;

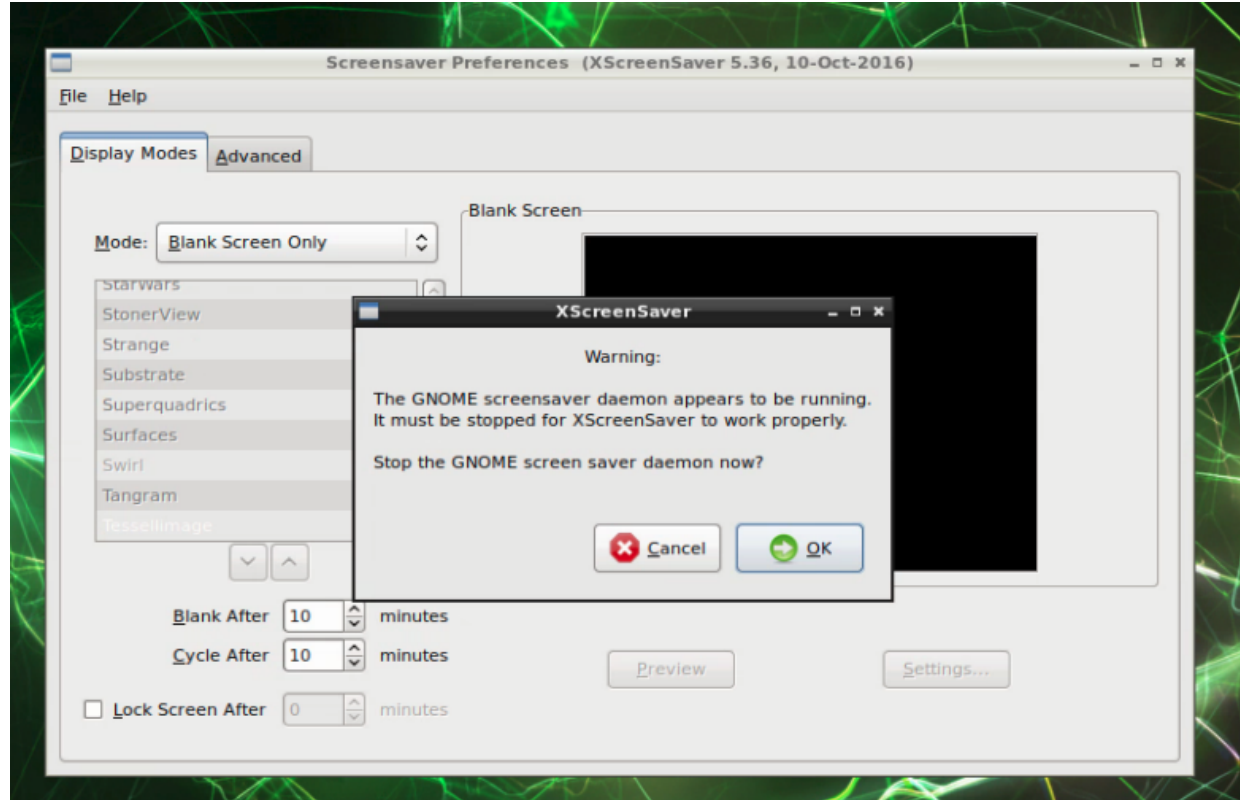


Disable GNOME Screen Saver Daemon (May 26)

Screensaver will cause the error when HDMI cable is not connected to a monitor.

Select Menu → Preferences → Screensaver

The warning dialog box will show up, and then select “OK” to stop GNOME screensaver daemon.



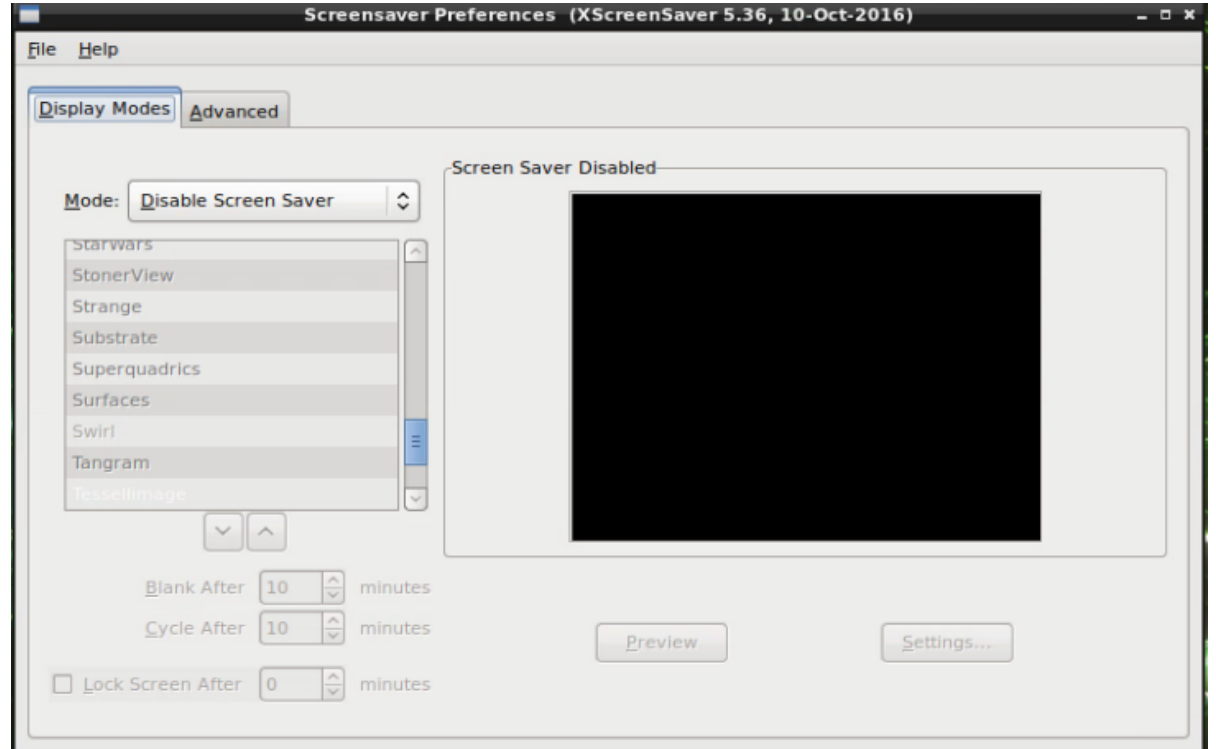


Disable X Screen Saver (May 26)

Screensaver will cause the error when HDMI cable is not connected to a monitor.

Select Menu → Preferences → Screensaver

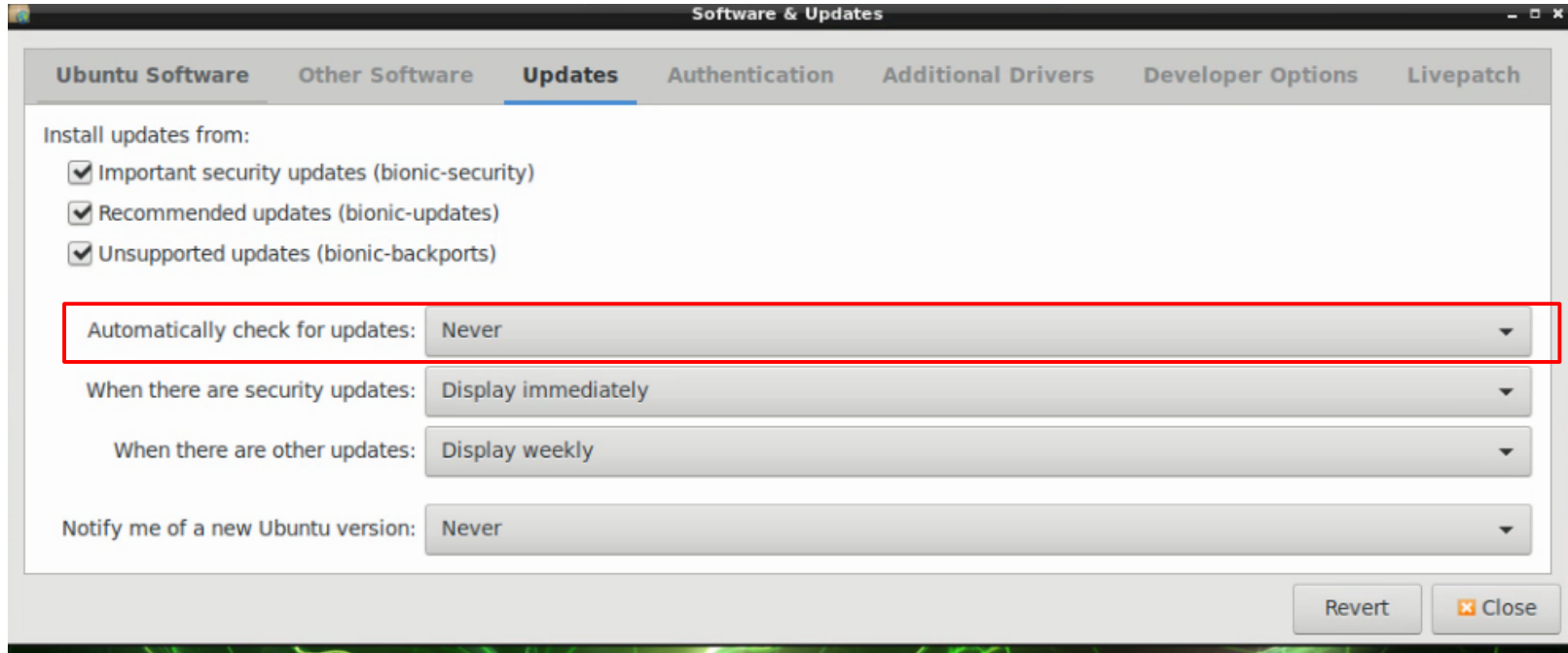
Select Mode: "Disable Screen Saver" on Display Modes





Disable Automatically Update (May 26)

1. Select Menu → Preferences → Software & Updates
2. Select “Updates” tab, and choose “Never” on Automatically check for updates





Start Jetson Nano Without Monitor (May 26)

After changing the settings, reboot Jetson Nano without connecting a monitor. It looks 640x480 resolution and can be access via NoMachine.

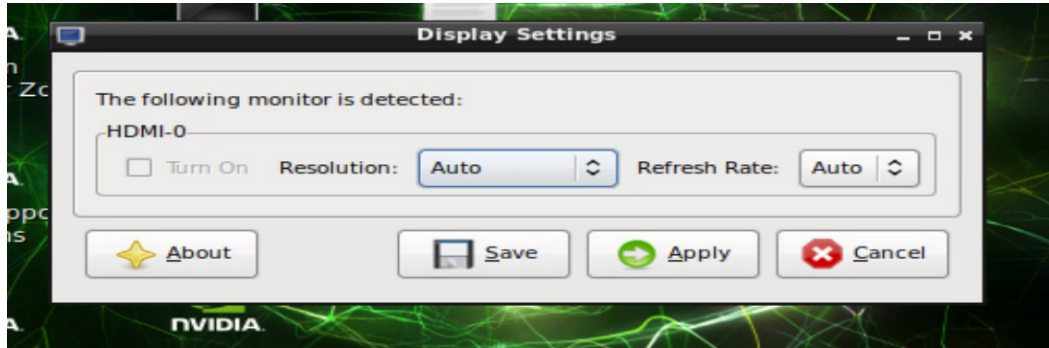




Start Jetson Nano Without Monitor (May 26)

After booting Jetson Nano without a monitor, Jetson Nano can not detect a monitor when it is connected. Rebooting Jetson Nano is required to detect a connected monitor.

Before rebooting, the HDMI cable is connected to a monitor.



After rebooting.



(Alternatives) Display Emulator Device (May 26)

https://www.amazon.com/CompuLab-fit-Headless-Display-Emulator/dp/B00FLZXGJ6/ref=as_li_ss_tl?ie=UTF8&psc=1&redirect=true&ref_=oh_aui_detailpage_o02_s00&linkCode=sl1&tag=jetsonhacks-20&linkId=2e7c354602cbec60b9ef72a997611c5e

HDMI monitor emulator works as a HDMI monitor. It can fix the issues without a monitor physically.
(YY May 26, 2023): It appears that it has the potential to interfere with the power supply cable on Jetson Nano.

CompuLab Display Emulator (fit-Headless)



Brand: CompuLab

4.7 ★★★★★ 440 ratings | 55 answered questions

-43% \$8⁵⁰

List Price: ~~\$15.00~~

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Compatible Devices	pc
Specific Uses For Product	personal
Connector Type	HDMI
Color	Black
Item Dimensions LxWxH	2 x 0.9 x 0.6 inches

END