OMS-Nano **V3**

– made for 10Micron V3 mounts –

#2455032

Instruction Manual and Recommended Use

Thank you for your purchase of the Remote-Switch OMS-Nano for 10Micron Mounts. It is used to turn your 10Micron mount on and off from remote.

To ensure optimal performance, please read this instruction manual before using the OMS-Nano, we recommend that you study this manual before installing and using it.

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Contents

Scope of Delivery

1. OMS-Nano switch
2. Power supply unit with adapters
3. LAN-cable
4. USB-cable

Mode of operation

A 10Micron mount with V3 control box can be switched on and off remotely via this external switch module OMS-Nano V3 (Observation Management System). For this purpose, the 6-pin AUX connector 1 is connected in parallel to the ON / OFF switch 2. The latter is a momentary switch that is only closed for as long as it is pressed (one to three seconds).

The switch box must perform the same function as the rocker switch. It must close the contact for one to three seconds, but not continuously.

Connecting the Switch

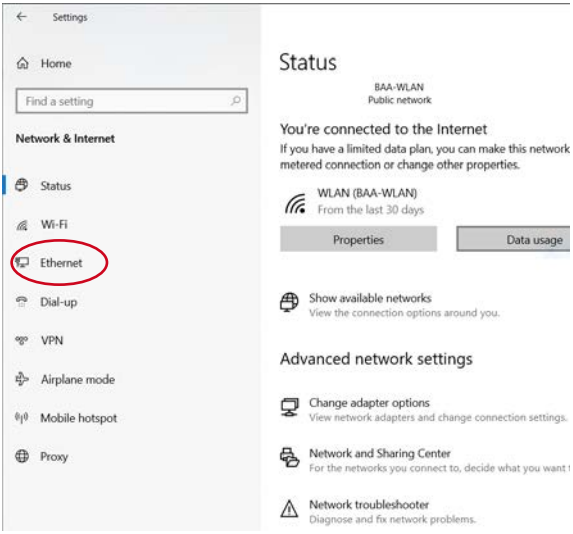
- Switch off the mount manually at the control box by using the ON/OFF switch 2.
- Wait for the red LED 3 to turn off. This can take up to 30s.
- Disconnect the mount from the power supply (pull the plug).
- Screw the connector of the switching module into the AUX socket 1 of the control box.
- Connect the supplied power supply unit to the switch module.
- Connect the LAN port of the switch module to your network, e.g. a switch, or directly to your computer using the network cable.
- **Optional:** Connect the switch module to your computer using the USB cable in order to configure the network settings of the switch module or to import firmware updates. For normal operation, you only need a connection via the network cable.
- Reconnect the power supply to the mount.

***Note:** Regardless of whether the AUX connector is connected or not, manual operation of the mount is still possible at any time.*

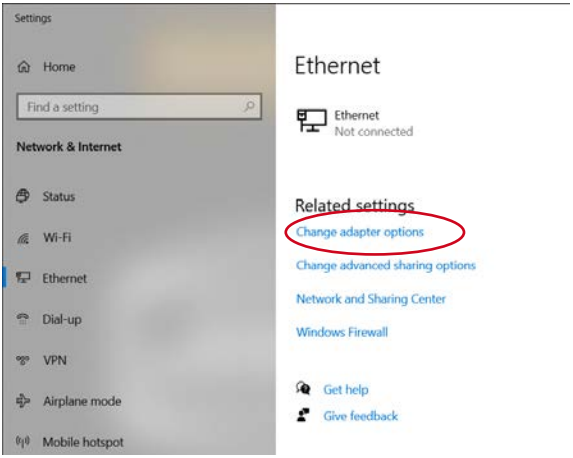
Network Settings

Open network and internet-settings on your computer (on the example of Windows 10)

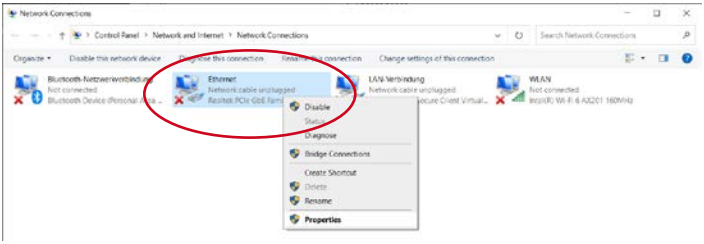
Go to *Ethernet – Settings*:



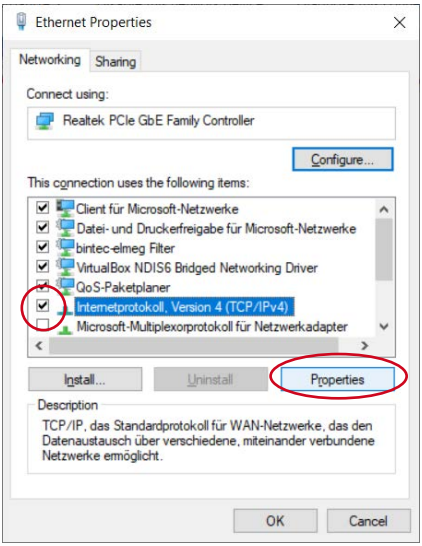
Choose *Change adapter options*:



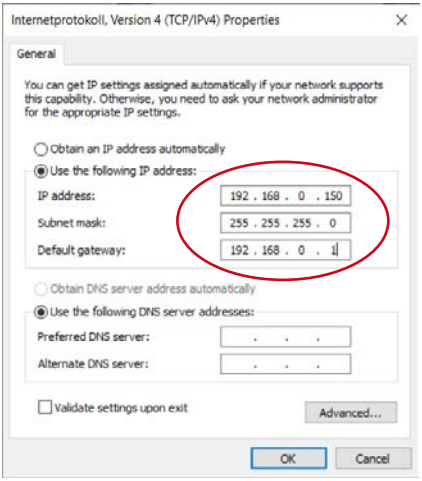
Right-click on *Ethernet* and choose *Properties*.



Select *Internet Protocoll Version 4* and click on *Properties*.



Enter the following IP data. Your computer must be in the range 192.168.0.0 to 192.168.0.255; the IP-adress 192.168.0.123 is occupied by the OMS-Nano.



To finish this process klick *OK* and close the setting windows.

Control of the Switch

Open a web browser and enter the assigned IP-address:

192.168.0.123/index.htm

The web interface opens. This address can be defined in the web browser as a bookmark or start page, so that the switch module can be found automatically the next time the browser is called up.

Switch on the mount: Click on *10 Micron Pulse.*

The mount now starts up, which is indicated in the keypad display by showing *Connecting…*, if it was previously defined that the Virtual Keypad should connect via Auto Connect after the mount has been started.

As soon as the mount has booted, the Virtual Keypad displays the connection data.

Remember to move the mount to its designated park position before switching it off.

Switching off the mount: Click the button *10 Micron Pulse* again.

The mount is now shutting down.

Attention: Prior to restarting, the mount must be completely shut down. The red LED of the control box must have been extinguished. Since this is not visible in remote mode, you should wait at least 30 seconds before operating *10 Micron Pulse* again.

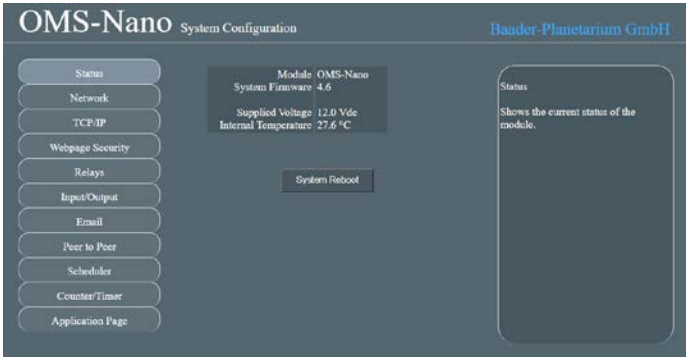
Configuration

This function requires a USB connection to the switch box. This is used to secure access.

Open a web browser and enter the following IP address:

192.168.0.123/_config.htm (note the underscore)

The configuration web interface opens. This address can also be saved as a bookmark in the web browser, so that the next time the browser is opened, the switching



module is easier to find.

Under the menu item *Network*, you can now make all the necessary changes to your

own network. However, it is recommended to use a fixed IP address as far as possible.

Please note:

If changed settings have not yet been transmitted to the switch box, the *Update Pending* button lights up red. In this case, wait until the button button turns grey again.

Under the menu item *Relays*, all necessary settings for the functions of the two relays can be made.

Under *Relays-No. 1* the preset values for the control of the mount can be viewed. ***Do not change these values!*** Relay 1 is activated by pressing the *10 Micron Pulse* button.

Under *Relays-No. 2* the second relay (labelled "I/O Switch" on the OMS-Nano) can be freely programmed for future applications.

If you already want to use the second relais now, we can provide the documentation, if you contact us at kontakt@baader-planetarium.de. Please note that the warranty is void once the housing is opened or the second port is reprogrammed. These alterations are done at your own risk.

Completion of the work

After each change of the settings, the switch box must be switched off and on again to successfully complete the programming. After changing the IP address and a restart, the OMS-Nano can be reached under the new IP address. Please remember to make the necessary changes to the bookmarks as well.

Likewise, the IP-4 details in the network settings can be reset to the original values if necessary.

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