Manual

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Instruction for LAN connection *NANOCOLOR*® Advance

Content

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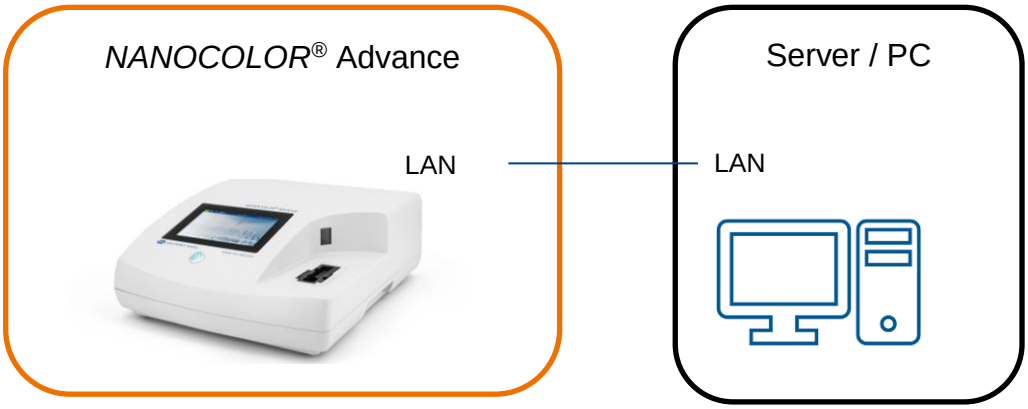
ATTENTION: This manual is intended for use by IT personnel only.

1. Introduction

The NANOCOLOR Advance supports the communication to local networks. To connect the device to a local network, a configuration with administrator rights at the local PC or server is required, for which MACHEREY-NAGEL recommends the support of a network administrator.

2. Connection setup

The *NANOCOLOR*® Advance is connected via an Ethernet cable (CAT 5E) to the network (Switch, Router, PC, Server…).



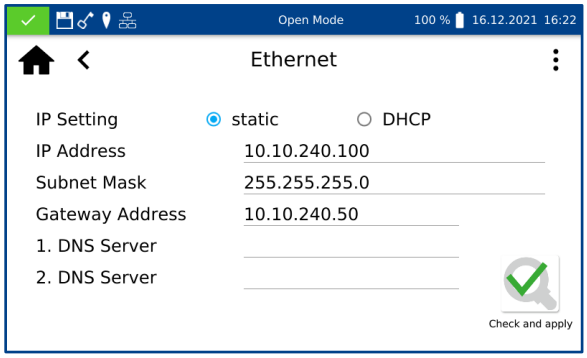
Required items:

- Spectrophotometer NANOCOLOR Advance
- USB stick for update of the spectrophotometer
- Ethernet cable (CAT5E)
- PC to check the success of the data transfer

3. Settings in the *NANOCOLOR*® Advance

The NANOCOLOR Advance firmware version 1.5.0 or higher is required. The current firmware version can be downloaded via: https://www.mn-net.com/nanocolor-device-updates

Enter the network settings via “Settings”→”Connections”→”Ethernet”.



Pic. 1: Ethernet settings

If the device is part of a DHCP network, an IP-address will automatically be assigned, which can be viewed here along with the MAC address, subnet mask, gateway and the DNS-Servers.
If a connection exists, this is additionally indicated by the icon in the status bar of the device.

In case the instrument is supposed to be connected to the network via a static IP address, set the radio button to static and enter the IP address, subnet mask and, if required, the gateway address and DNS servers for the connection.
After changing the LAN settings from DHCP to static mode or vice versa, the instrument will automatically perform a restart.

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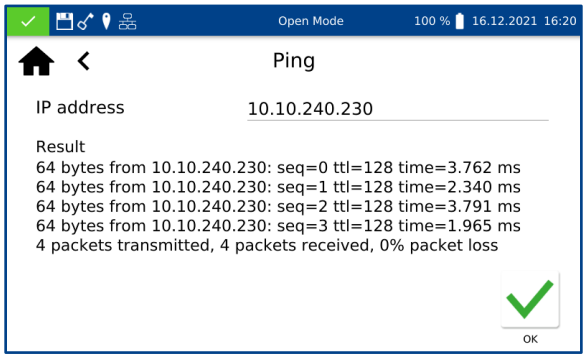
With the Icon “Check and apply” the settings will be automatically checked.

NOTICE
The correct connection in the network should be checked via a ping to the IP address of the host.

To check the correct connection in the network, a ping from the host can be done by entering the IP address of the instrument in the command program of a connected computer.
It is also possible to ping the host from the instrument. Press the three dots icon in the upper right corner of the Ethernet settings (Pic. 1) and enter the IP address of the host.

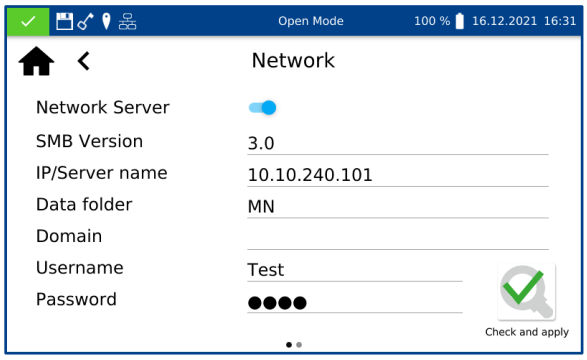


Pic. 2: Ping option spectrophotometer

A successful ping is indicated by a summary of the four attempts of the ping. A broken connection will be indicated by the error message “Time out”.

After a successful setting of the Ethernet connection, the directory for the data export needs to be entered.

Enter the menu for the data export settings via “Settings”→”Data export”→”Network”.



Pic. 3: Network settings page 1

To export data to a network drive, activate the switch for “Network server” (see pic.3). Choose the desired SMB protocol version by clicking on the entry for “SMB version”. Afterwards enter the IP address or server name of the host.

NOTICE
When using a server name, an entry for a DNS server is required in the Ethernet settings.

Enter the name of the data folder, where the data should be send to. The instrument will automatically create the correct network path (\\IPaddress\datafolder).
In case the host is part of a domain, enter the name of the domain in the respective field.
Enter the “username” and “password” for the authentication to the data folder into the respective fields. After entering the information, press “Check and apply” to apply the settings. The instrument will automatically check, if the shared data folder is accessible.

To set the option for a automatic data export after the measurement swipe to the left to open page 2 of the network settings (pic. 4)

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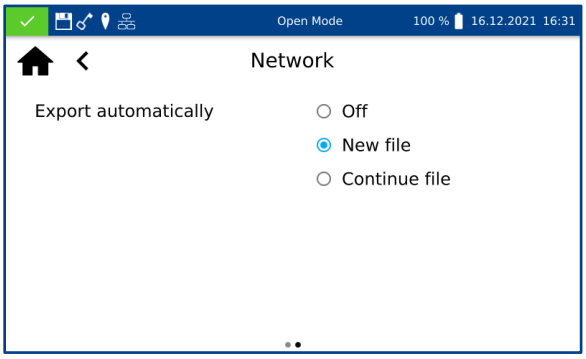


Pic. 4: Network settings page 2

Use the “Export automatically” option to set how the data is sent to the network drive. During data storage on the target drive, the spectrophotometer automatically creates a subfolder structure.
The following options are available:

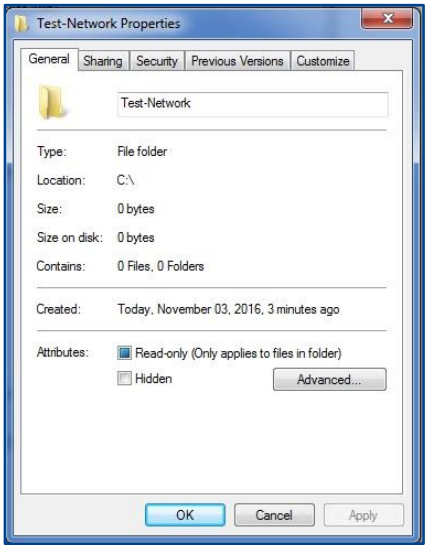
- "Off": No data are automatically sent to the network drive. The export of the data must be initiated manually via the option "Export to CSV" in the measurement result memory (see chapter 14. in comprehensive device manual). A separate CSV file with date and time stamp is generated for each manually triggered export.
- "new file": A separate CSV file with date and time stamp is generated for each saved measured value.
- "Continue file": After setting this option, a CSV file without date and time stamp will be created in the destination folder beginning from the next measurement after setting this option. This file is continued with each stored measurement result and supplemented by the corresponding entry. When the CSV file is removed from the directory, the device automatically creates a new CSV file after the next export.

NOTICE
If the measurement result memory is deactivated, the data will be sent to the network drive, if data export to a network drive is enabled. However, the results are not stored in the device memory.

To check, if the data export works correctly, please export a measured result from the spectrophotometer memory as indicated in chapter 14 of the comprehensive device manual.

4. Share network drive

Start the Microsoft Windows-Explorer with the keyboard shortcut *Windows* + E.
Click with the right mouse button on the folder (e. g. Test-Network) which you would like to share.
Select *Properties*.



Pic.5: Share folder

Open the register *Sharing* (see pic.6) and select *Share*… .

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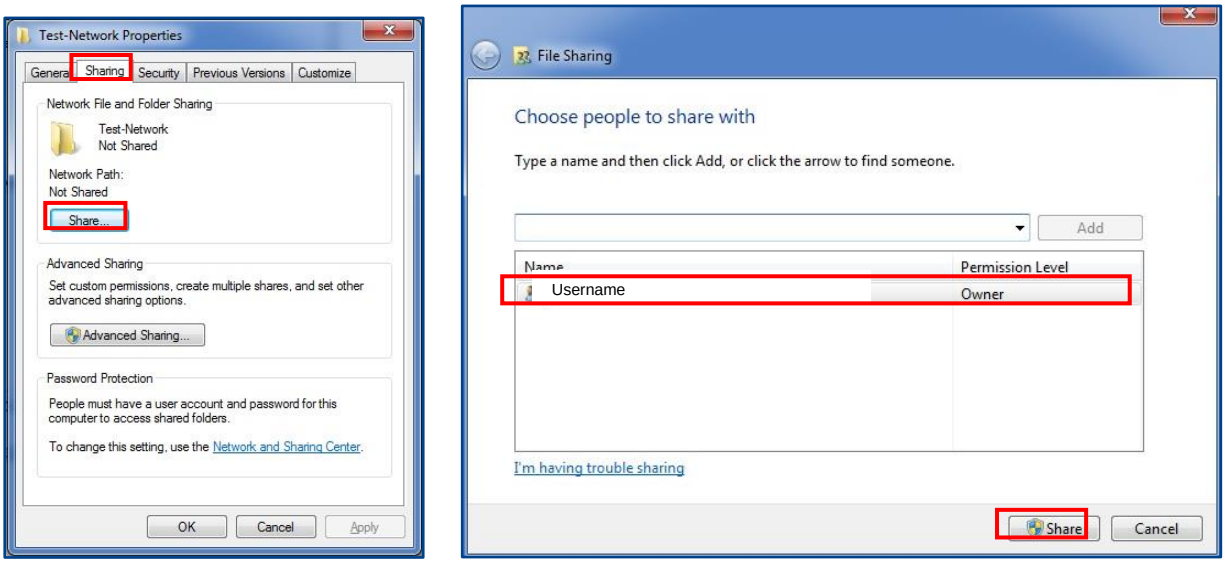
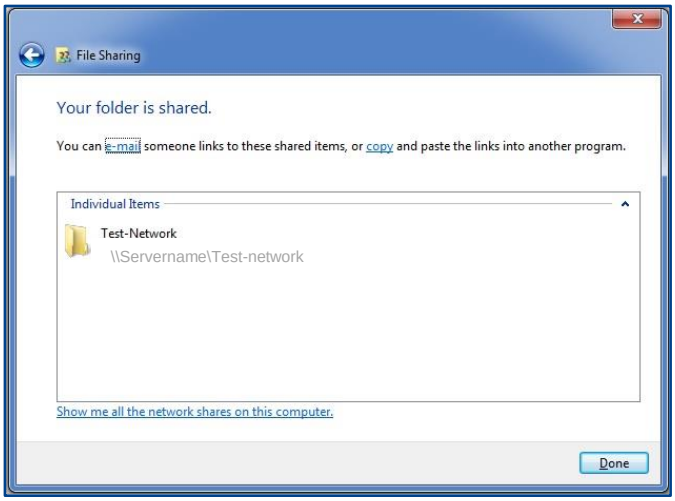


Pic.6: Folder share settings

Select the person the folder should be shared with (see pic.6, right side; Username“).
Confirm with *Share*.

Sharing of the folder is confirmed in a new dialogue (see pic.7).
Close the window by confirming with *Done*.



Pic.7: Folder share settings

Click on *Advanced Sharing*… .

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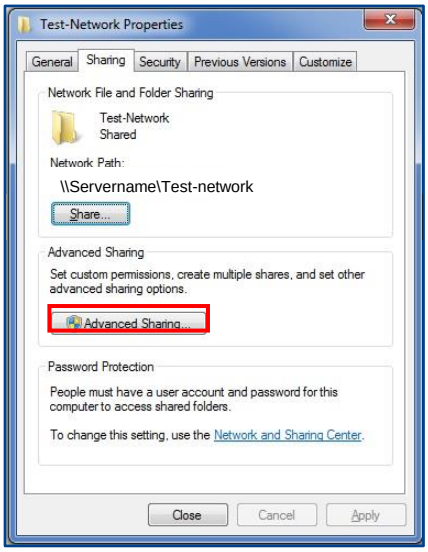
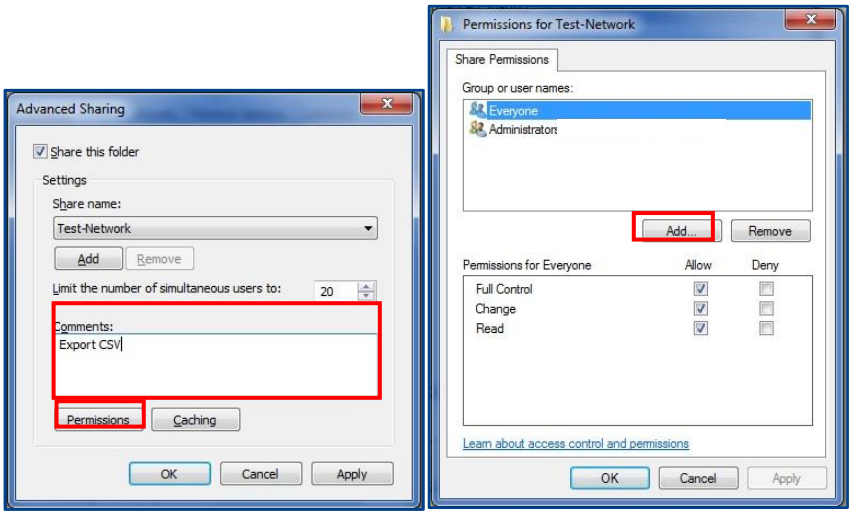


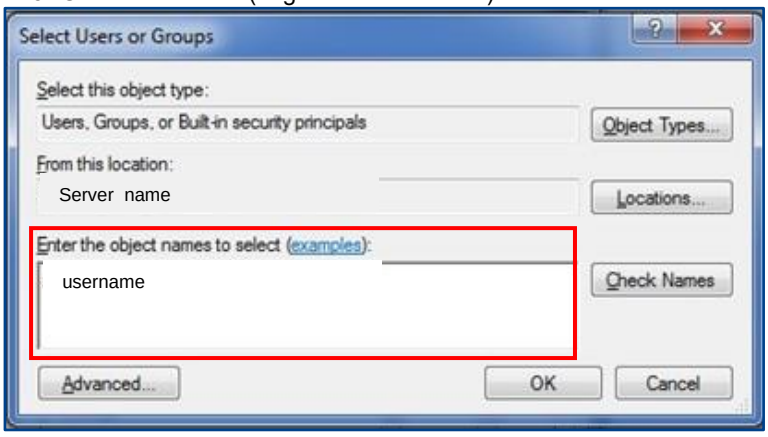
Pic.8: Folder share settings

If needed, a comment can be added which describes the use of the folder (e. g. “Export CSV“).
Click on *Permissions* followed by *Add…* (see pic.29).



Pic.9: Folder share settings

Enter the user to the text field which should be added (e. g. user ”username“).



Pic.10: Folder share settings

Click on *Check Names* (see pic.10).
Choose the user from the list and set the correct permissions for the user profile.

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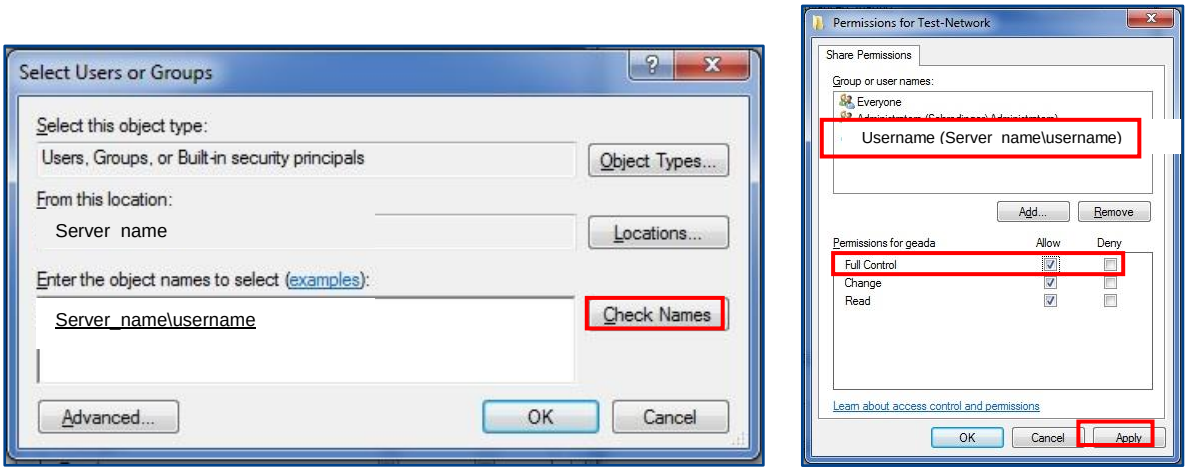
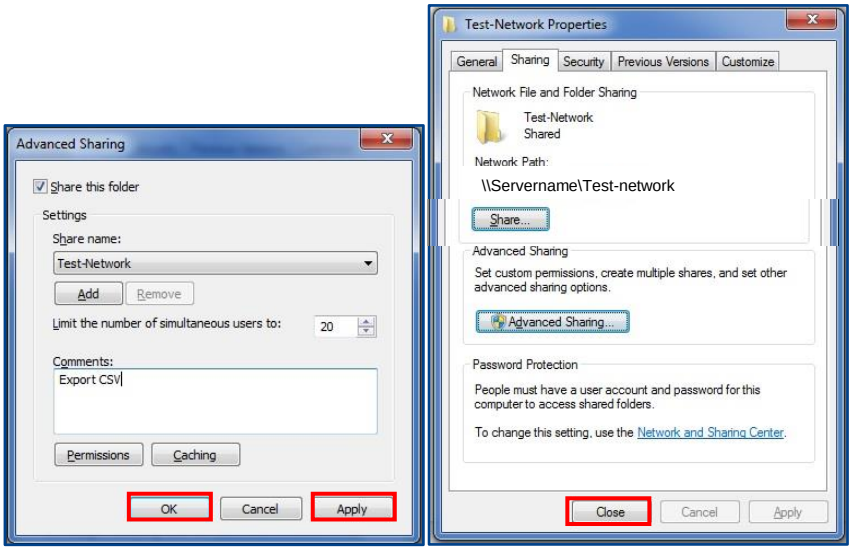


Pic.11: Folder share settings

Enter a check for the user in the field *Full Control/Allow*.
Confirm with *Apply* and save the settings with *OK*.
Confirm the settings with *Apply* and save your changes with *OK*.



Pic.12: Folder share settings

Click *Close*. The network drive is now successfully shared.

5. Contact

If you have further questions, please do not hesitate to contact us:

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