Quick Guide – MOBOTIX NAS & MOVE/ONVIF Cameras

Setting up MOBOTIX NAS/MxManagementCenter
Using **MOVE/ONVIF** Cameras

MOBOTIX NAS

2-Bay/8 Channels

MOBOTIX NAS

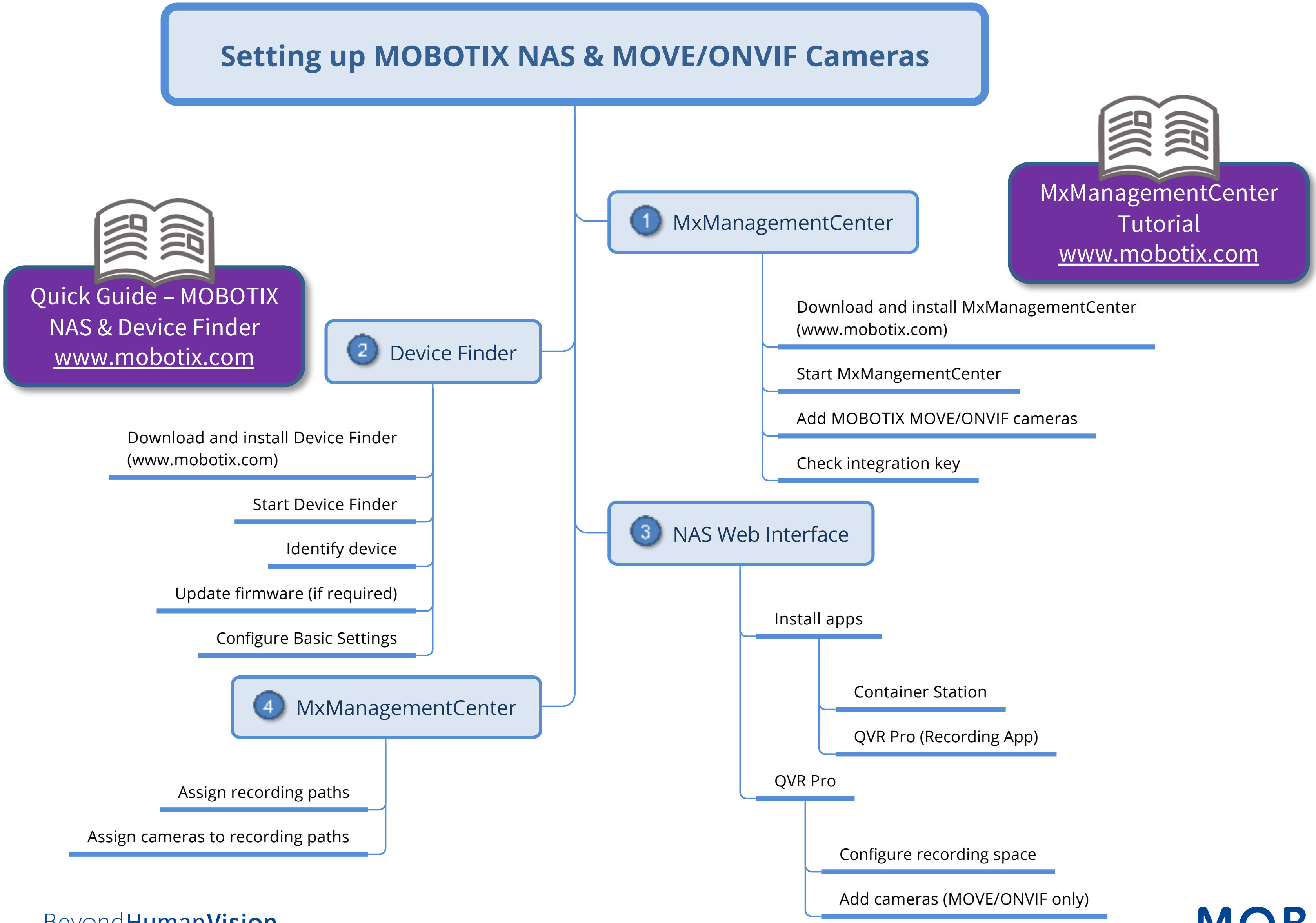
4-Bay/16 Channels

MOBOTIX NAS

8-Bay/32 Channels

Beyond**HumanVision**

Overview



Setting up MOBOTIX NAS & MOVE/ONVIF Cameras

- ① MxManagementCenter
  - Download and install MxManagementCenter (www.mobotix.com)
  - Start MxMangementCenter
  - Add MOBOTIX MOVE/ONVIF cameras
  - Check integration key
- ② Device Finder
  - Download and install Device Finder (www.mobotix.com)
  - Start Device Finder
  - Identify device
  - Update firmware (if required)
  - Configure Basic Settings
- ③ NAS Web Interface
  - Install apps
    - Container Station
    - QVR Pro (Recording App)
  - QVR Pro
    - Configure recording space
    - Add cameras (MOVE/ONVIF only)
- ④ MxManagementCenter
  - Assign recording paths
  - Assign cameras to recording paths

MxManagementCenter Tutorial
www.mobotix.com

Quick Guide – MOBOTIX NAS & Device Finder
www.mobotix.com

General Information (1)

This document is valid for the following MOBOTIX NAS models

Product Name	Item Number	Product Label
MOBOTIX NAS 2-Bay/8 Channels	Mx-S-NAS2a-8	251-G
MOBOTIX NAS 4-Bay/16 Channels	Mx-S-NAS4A-16	451-G
MOBOTIX NAS 8-Bay/32 Channels	Mx-S-NAS8A-32	873U-G

Minimum requirements for software versions

- MOBOTIX NAS: Mx-NAS2-4A-4.3.4.0807, Mx-NAS8A-4.3.4.0807, ContainerStation 1.8.3.207, QVRProServer 1.2.1.0 (see MOBOTIX NAS Quick Install)
- MOBOTIX MOVE: SD1A → MB20181025RS, BC1A/VD1A → MB20181025RP
- MxManagementCenter: 2.0.1+

IMPORTANT: We recommend updating all system components to the latest software releases. Please download the latest releases of MxMC, MOBOTIX NAS, and MOBOTIX MOVE cameras from the MOBOTIX website www.mobotix.com:

- Support > Download Center > Software Downloads

General Information (2)

Video Tutorials are available from the MOBOTIX website www.mobotix.com:

- Support > Download Center > Documentation > Video Tutorials

The **MOBOTIX NAS HDD Compatibility List** is available from the MOBOTIX website www.mobotix.com:

- Support > Download Center > Documentation > White Lists

A Note on Licensing

MxManagementCenter can show MOBOTIX IoT and MOVE cameras “as is”, i.e., without any further licensing. For bandwidth-optimized usage and professional applications, it is highly recommended to use **H.264** (requires a license for MxManagementCenter).

For more information on licensing models, please read the **Compact Guide MxMC 2.0** from the MOBOTIX website www.mobotix.com:

- Support > Download Center > Documentation > Brochures & Guides
- Only one Starter License per MxMC required to enable H.264

MxMC
Int. Starter

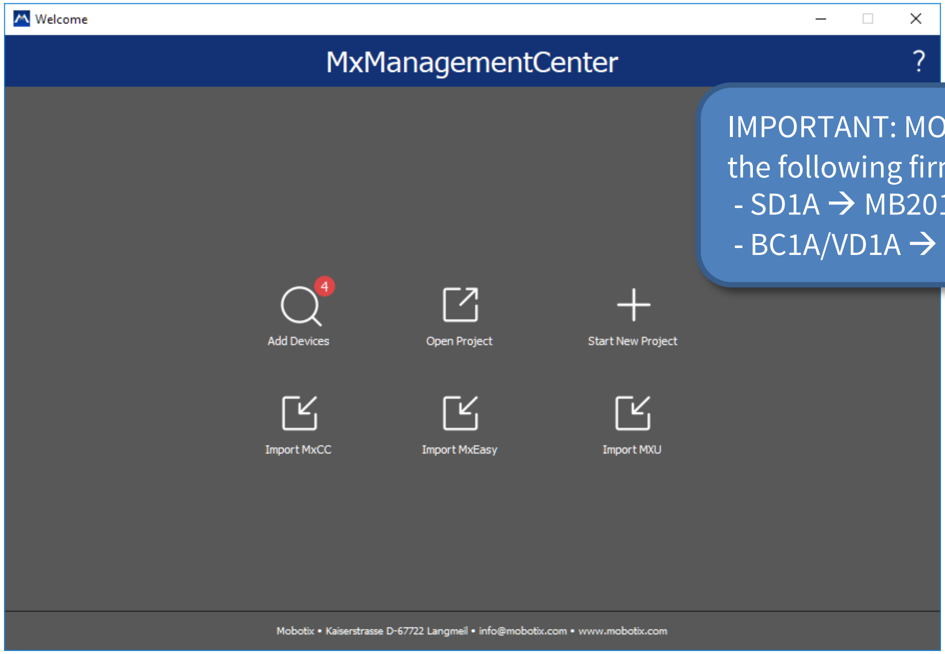
A Note on Password Security

- The default user of the NAS is “**admin**” and the **password** is “**admin**”.
- **NEVER use the default access privileges!** Always make sure that you have changed the default passwords to strong passwords (numbers, lower/upper case letters, special characters)!

Step 1 – Add ONVIF S Cameras to MxManagementCenter

1. Start **MxManagementCenter**.

2. Start the **Welcome Wizard** by clicking on **File > Welcome** in the menu bar.

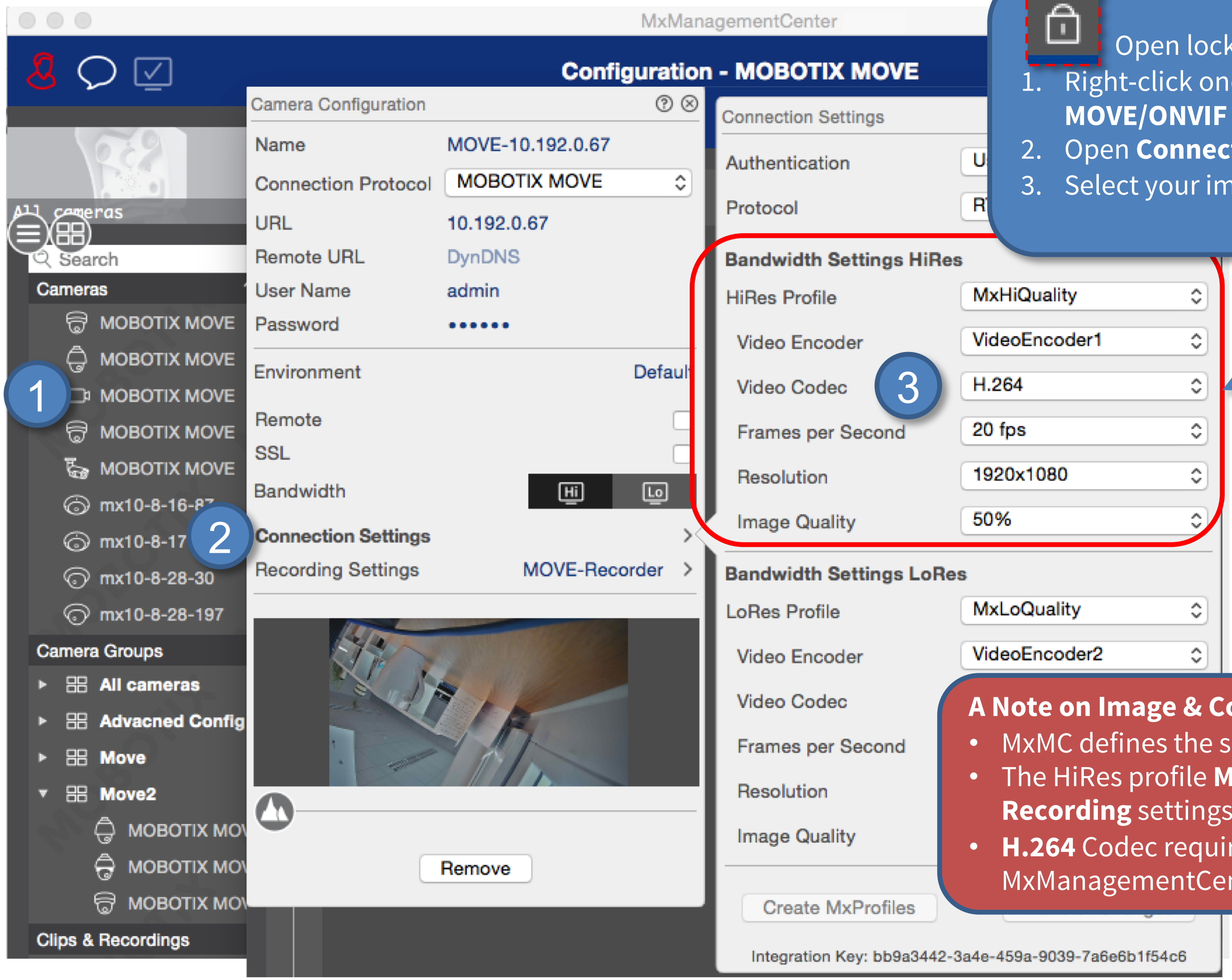

Welcome
MxManagementCenter
?
4
Add Devices
Open Project
Start New Project
Import MxCC
Import MxEasy
Import MXU
Mobotix • Kaiserstrasse D-67722 Langmeil • info@mobotix.com • www.mobotix.com

IMPORTANT: MOBOTIX MOVE cameras require the following firmware version (or newer) :
- SD1A → MB20181025RS
- BC1A/VD1A → MB20181025RP

3. Click on **Add Devices**. Then select the desired ONVIF S-compliant cameras you'd like to add to MxMC. **Note:** It can take up to ten minutes to find an ONVIF camera. As an alternative, you can manually add the cameras to the list by clicking the "**+**" icon in the control bar.

4. Enter the access privileges. You need access privileges of a user with ONVIF administration level access. For MOBOTIX MOVE cameras, the admin user in the camera's web interface is also the ONVIF admin. For other camera brands (e.g., Axis), the roles for web interface admin and ONVIF admin are separate.

Step 2 – Adjust the Image Settings for Live and Recording


MxManagementCenter
All cameras
Search
Cameras
MOBOTIX MOVE
MOBOTIX MOVE
MOBOTIX MOVE
MOBOTIX MOVE
MOBOTIX MOVE
mx10-8-16-87
mx10-8-17
mx10-8-28-30
mx10-8-28-197
Camera Groups
All cameras
Advacned Config
Move
Move2
MOBOTIX MOV
MOBOTIX MOV
MOBOTIX MOV
Clips & Recordings
1
2
3
Hi
Lo
Remove
Create MxProfiles

Configuration - MOBOTIX MOVE

Camera Configuration

Name: MOVE-10.192.0.67
Connection Protocol: MOBOTIX MOVE
URL: 10.192.0.67
Remote URL: DynDNS
User Name: admin
Password: ••••••
Environment: Defaul
Remote ☐
SSL ☐
Bandwidth
Connection Settings >
Recording Settings: MOVE-Recorder >

Connection Settings

Authentication: U
Protocol: R

Bandwidth Settings HiRes

HiRes Profile: MxHiQuality
Video Encoder: VideoEncoder1
Video Codec: H.264
Frames per Second: 20 fps
Resolution: 1920x1080
Image Quality: 50%

Bandwidth Settings LoRes

LoRes Profile: MxLoQuality
Video Encoder: VideoEncoder2
Video Codec
Frames per Second
Resolution
Image Quality

Integration Key: bb9a3442-3a4e-459a-9039-7a6e6b1f54c6

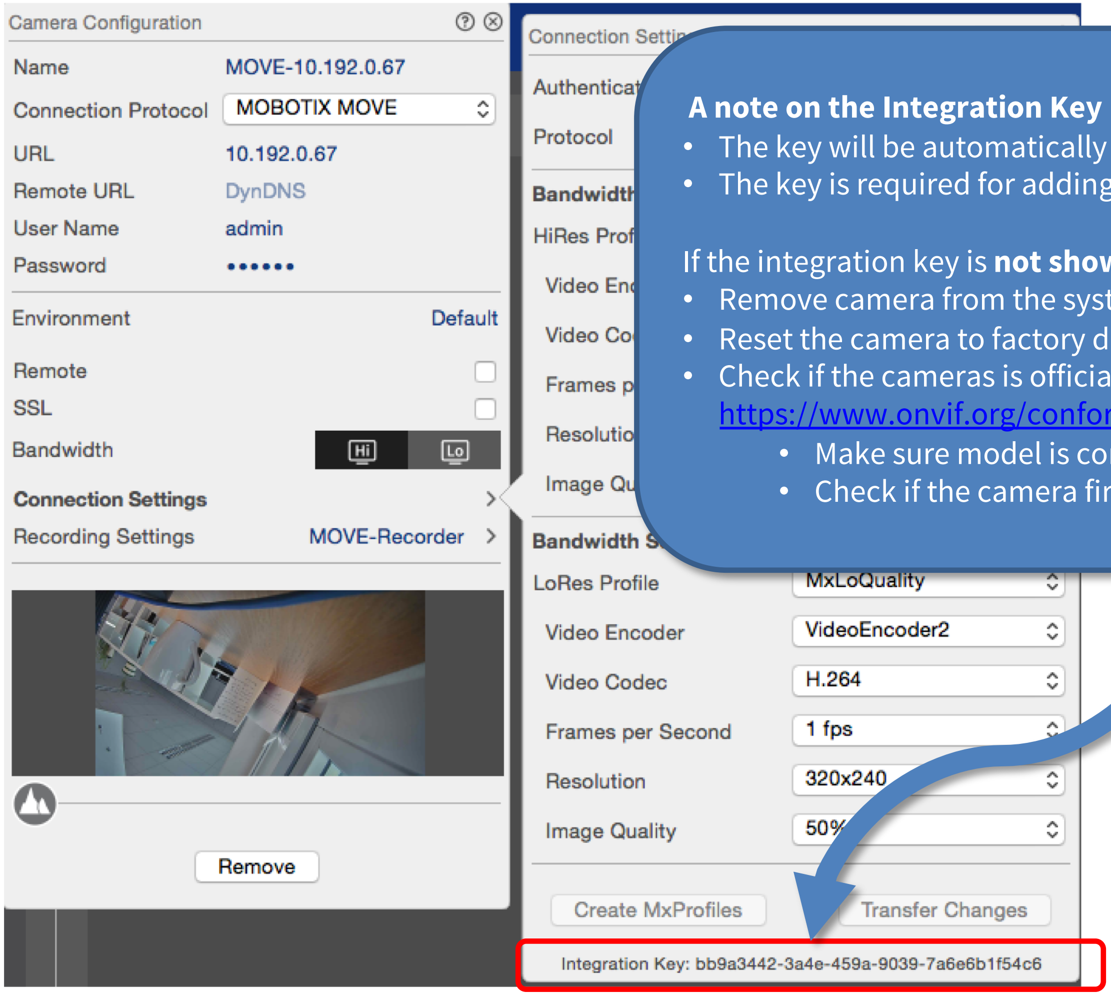
Open lock icon to enter edit mode, then…

1. Right-click one or more selected **MOVE/ONVIF** cameras.
2. Open **Connection Settings**.
3. Select your image and codec settings.

A Note on Image & Codec Settings:

- MxMC defines the settings for **Live** and **Recording**.
- The HiRes profile **MxHiQuality** belongs to the **Recording** settings of the NAS.
- **H.264** Codec requires a **Starter License** for MxManagementCenter.

Step 3 – Check the Integration Key



Name MOVE-10.192.0.67
Connection Protocol MOBOTIX MOVE
URL 10.192.0.67
Remote URL DynDNS
User Name admin
Password ••••••

Environment Default
Remote ☐
SSL ☐
Bandwidth

Connection Settings
Recording Settings MOVE-Recorder

Authenticat
Protocol
Bandwidth
HiRes Prof
Video Enc
Video Co
Frames p
Resolutio
Image Qu
Bandwidth S
LoRes Profile MxLoQuality
Video Encoder VideoEncoder2
Video Codec H.264
Frames per Second 1 fps
Resolution 320x240
Image Quality 50%

Integration Key: bb9a3442-3a4e-459a-9039-7a6e6b1f54c6

A note on the Integration Key

- The key will be automatically set while adding the camera.
- The key is required for adding the camera in the MOBOTIX NAS.

If the integration key is **not shown below**, please try the follow steps:

- Remove camera from the system and add it again!
- Reset the camera to factory defaults and add the camera again.
- Check if the cameras is officially registered as an ONVIF S client at https://www.onvif.org/conformant-products/
    - Make sure model is conforming (using exact model name).
    - Check if the camera firmware release is conforming.

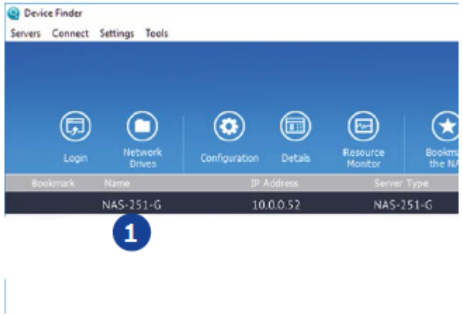
Step 4 – Set up MOBOTIX NAS

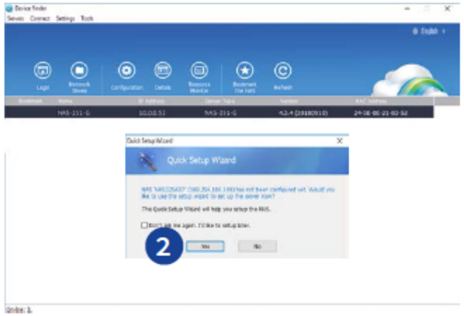
NAS Quick Install Guide

Installations-Software / Installation Software / Logiciel d'installation

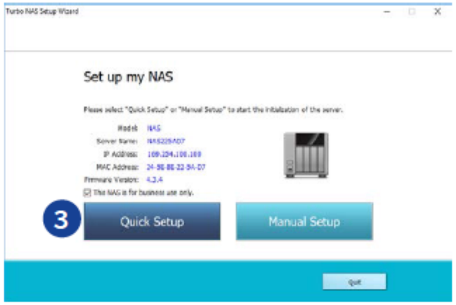
www.mobotix.com/software-downloads > MxNAS > MOBOTIX NAS Device Finder

www.mobotix.com/manuals

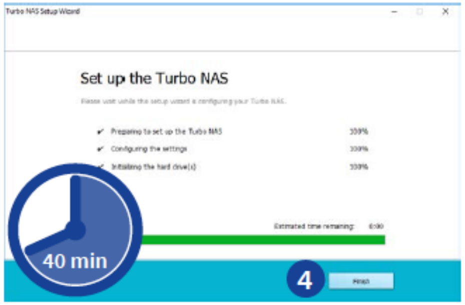

Device Finder
Servers Connect Settings Tools
Login
Network Drives
Configuration
Details
Resource Monitor
Bookmark the NAS
Bookmark Name IP Address Server Type
NAS-251-G 10.0.0.52 NAS-251-G
1


Device Finder
Quick Setup Wizard
2

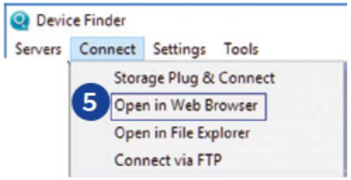
HINWEIS: Den Zugriff durch die Windows Firewall erlauben.
NOTE: Grant access through the Windows Firewall.
REMARQUE: N'utilisez le câble d'alimentation que pour les dispositifs MOBOTIX NAS !


Turbo NAS Setup Wizard
Set up my NAS
3
Quick Setup
Manual Setup
Quit

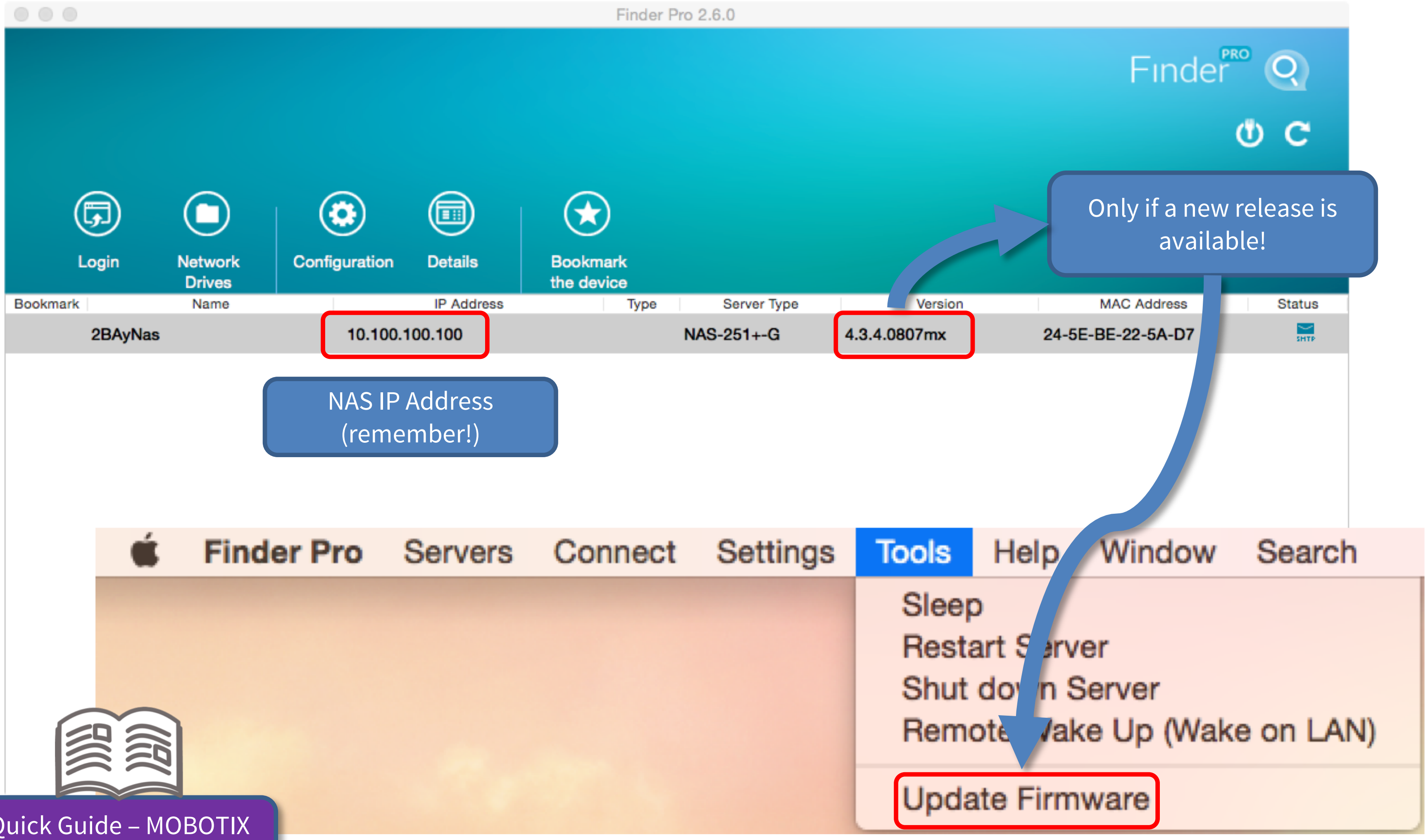
Please select "Quick Setup" or "Manual Setup" to start the initialization of the server.


Turbo NAS Setup Wizard
Set up the Turbo NAS
40 min
4
Finish

- ✓ Preparing to set up the Turbo NAS 100%
- ✓ Configuring the settings 100%
- ✓ Initializing the hard drive(s) 100%


Device Finder
Servers Connect Settings Tools
Storage Plug & Connect
5
Open in Web Browser
Open in File Explorer
Connect via FTP

Step 5 – Update MOBOTIX NAS Firmware (If Required)


Finder Pro 2.6.0
Finder PRO
Login
Network Drives
Configuration
Details
Bookmark the device
Finder Pro
Servers
Connect
Settings
Tools
Help
Window
Search
Sleep
Restart Server
Shut down Server
Remote Wake Up (Wake on LAN)
Update Firmware

Bookmark	Name	IP Address	Type	Server Type	Version	MAC Address	Status
	2BAyNas	10.100.100.100		NAS-251+-G	4.3.4.0807mx	24-5E-BE-22-5A-D7	SMTP

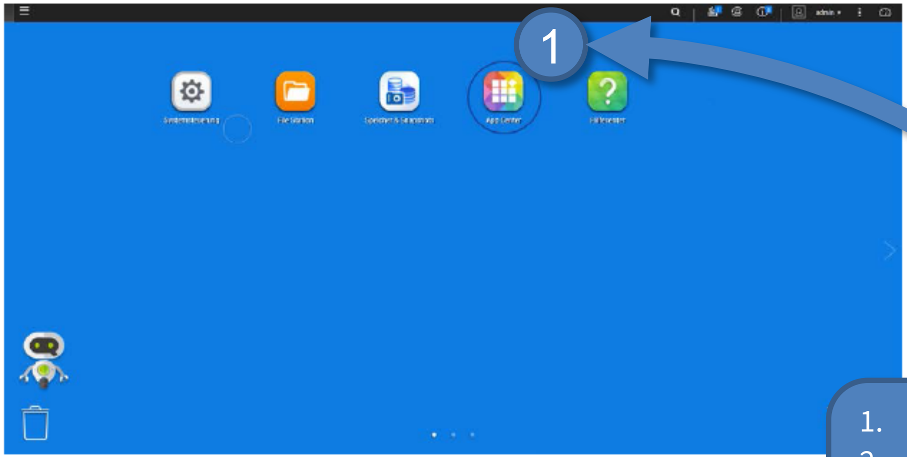
Only if a new release is available!

NAS IP Address (remember!)

Quick Guide – MOBOTIX NAS & Device Finder

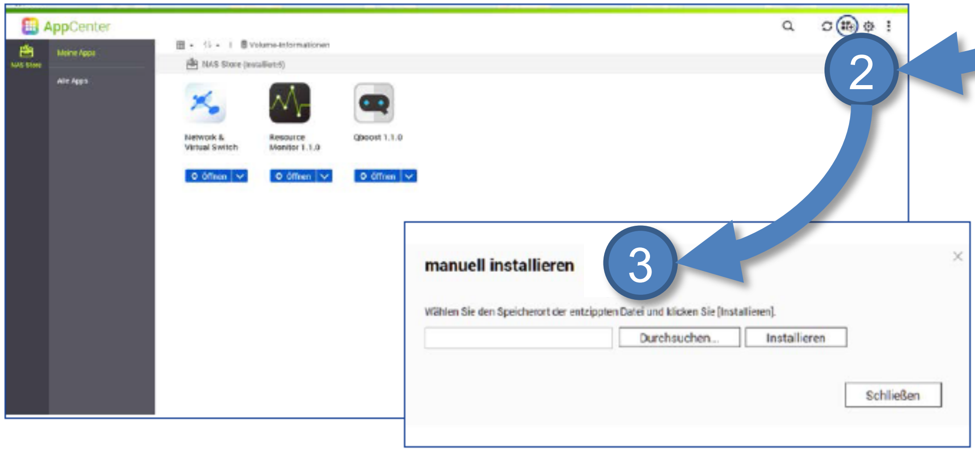
Step 6 – Install App on NAS (Recording Software)

Installation der Recorder-Software / Installation of the Recorder Software / Installation du logiciel d'enregistrement



Installieren Sie zuerst die Container Station App und danach die QVR Pro Software.
Install the Container Station App software and then the QVR Pro software.
Installez d'abord Container Station App et après le logiciel QVR Pro.

⚠ **HINWEIS:** Ein automatisches Update wird nicht unterstützt.
NOTE: The software does not support automatic updates!
REMARQUE: La mise à jour automatique n'est pas supportée.


AppCenter
Meine Apps
Alle Apps
NAS Store
Network & Virtual Switch
Resource Monitor 1.1.0
Qboost 1.1.0
Öffnen
2
3

manuell installieren

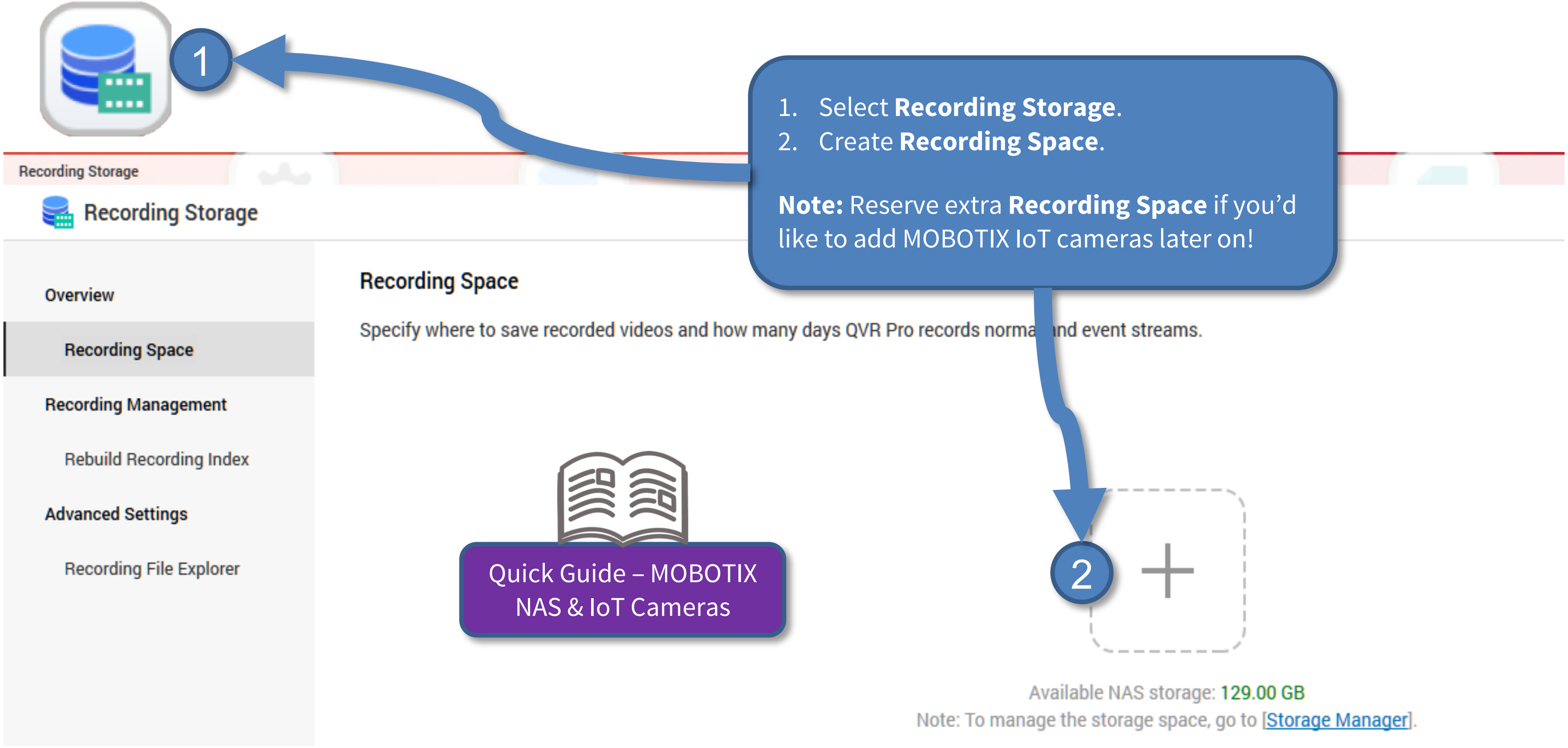
Wählen Sie den Speicherort der entzippten Datei und klicken Sie [Installieren].

Durchsuchen... | Installieren

Schließen

1. Open **AppCenter**.
2. Click on the **Install Manually** icon.
3. Manually install these apps:
   - **Container Station App**.
   - **QVR Pro** software.

Step 7 – Create Recording Space in QVR Pro


1
2
Recording Storage
Recording Storage
Overview
Recording Space
Recording Management
Rebuild Recording Index
Advanced Settings
Recording File Explorer
Recording Space

1. Select **Recording Storage**.
2. Create **Recording Space**.

Note: Reserve extra **Recording Space** if you'd like to add MOBOTIX IoT cameras later on!

Specify where to save recorded videos and how many days QVR Pro records norma nd event streams.

Quick Guide – MOBOTIX NAS & IoT Cameras

Available NAS storage: 129.00 GB

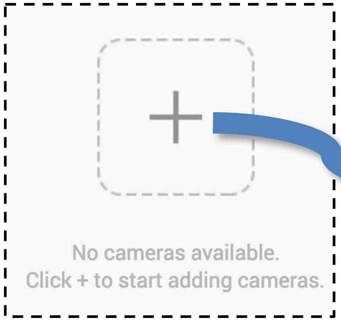
Note: To manage the storage space, go to [Storage Manager].

Set the required size for all recording spaces and leave the **Overwrite Threshold** at its default value (95 %).

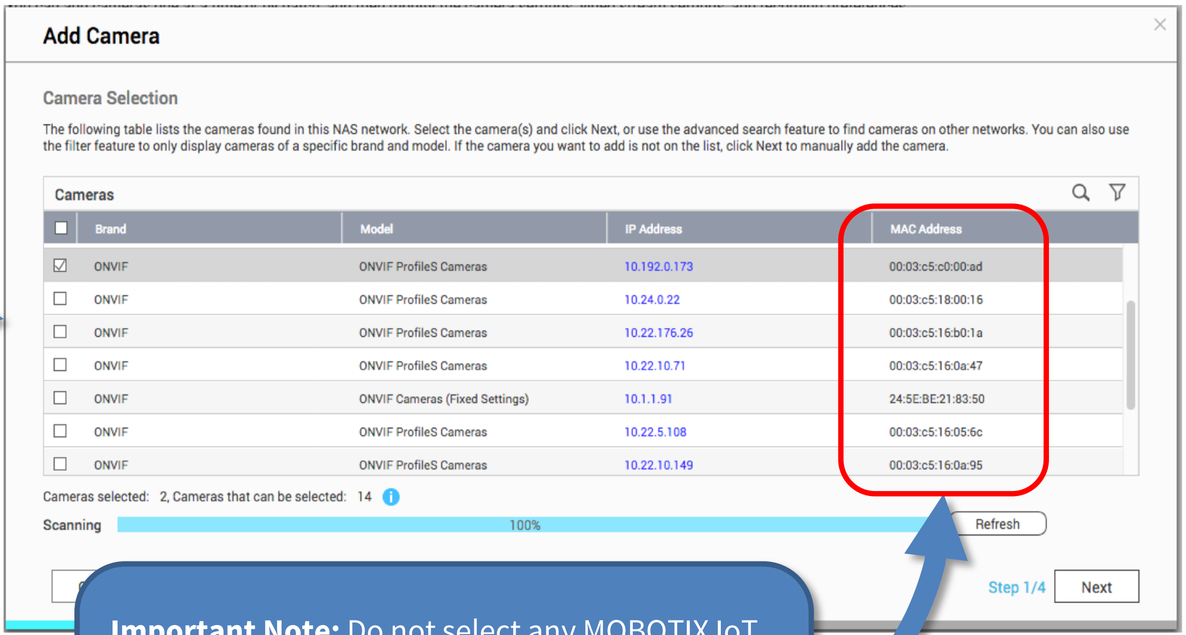
Important Note: Wait until the recording space is fully allocated and **do not reboot the MOBOTIX NAS or add cameras before this task is finished**!

Step 8 – Add Cameras (1)

1. After the recording spaces have been completely allocated, open **Camera Settings** in QVR Pro (Recorder Software).
2. QVR Pro is only suitable for MOVE/ONVIF cameras. To use the full functionality of Premium MOBOTIX IoT cameras (such as SD card failover and MxPEG+), MxFFS with buffered archives must be used. Therefore, make sure that no MOBOTIX IoT cameras have been selected. You can recognize MOBOTIX IoT cameras by their MAC address. If MOBOTIX IoT cameras have also been selected, deselect them.



No cameras available.
Click + to start adding cameras.



Add Camera

Camera Selection

The following table lists the cameras found in this NAS network. Select the camera(s) and click Next, or use the advanced search feature to find cameras on other networks. You can also use the filter feature to only display cameras of a specific brand and model. If the camera you want to add is not on the list, click Next to manually add the camera.

Cameras

☐	Brand	Model	IP Address	MAC Address
☑	ONVIF	ONVIF ProfileS Cameras	10.192.0.173	00:03:c5:c0:00:ad
☐	ONVIF	ONVIF ProfileS Cameras	10.24.0.22	00:03:c5:18:00:16
☐	ONVIF	ONVIF ProfileS Cameras	10.22.176.26	00:03:c5:16:b0:1a
☐	ONVIF	ONVIF ProfileS Cameras	10.22.10.71	00:03:c5:16:0a:47
☐	ONVIF	ONVIF Cameras (Fixed Settings)	10.1.1.91	24:5E:BE:21:83:50
☐	ONVIF	ONVIF ProfileS Cameras	10.22.5.108	00:03:c5:16:05:6c
☐	ONVIF	ONVIF ProfileS Cameras	10.22.10.149	00:03:c5:16:0a:95

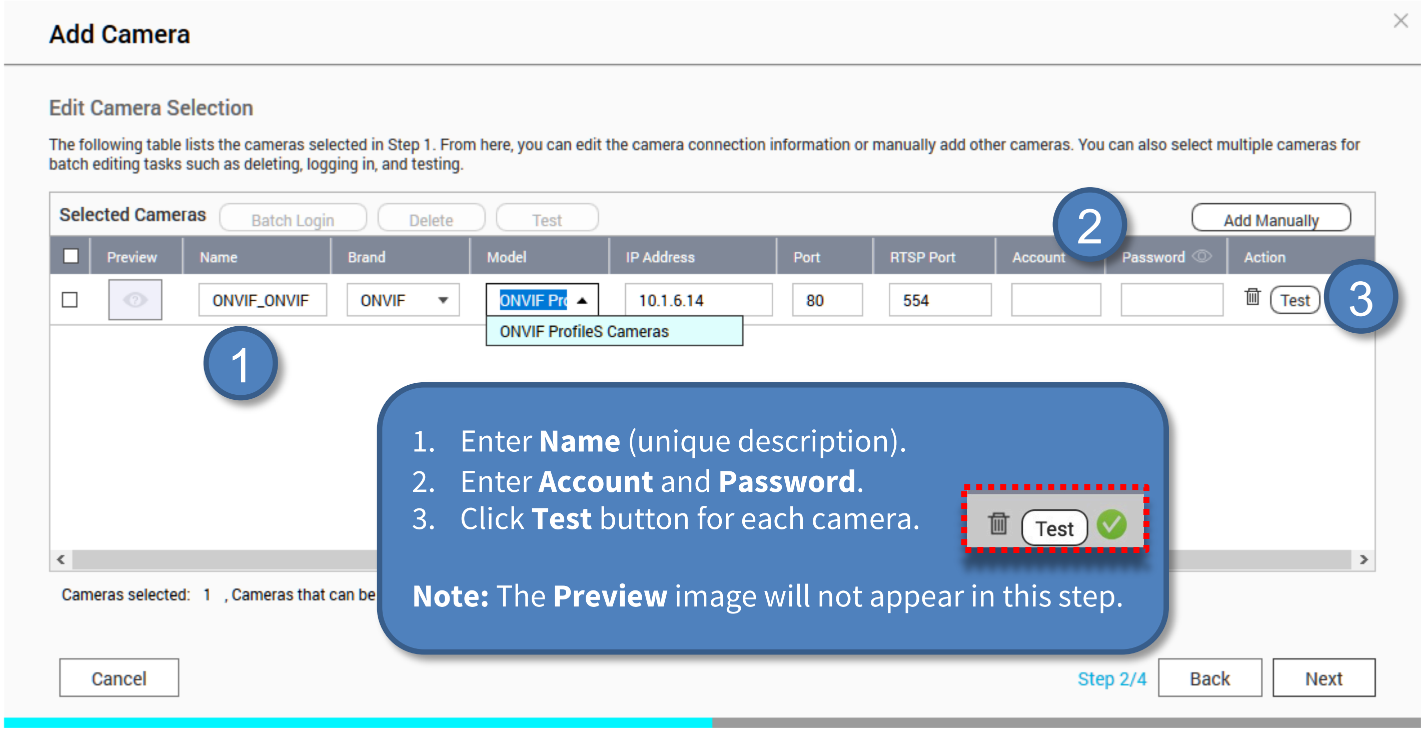
Cameras selected: 2, Cameras that can be selected: 14

Important Note: Do not select any MOBOTIX IoT cameras!
Check the MAC address:

- MOBOTIX MOVE: 00:03.C5.**C0**.XX.XX
- MOBOTIX IoT: 00:03:C5.**XX**.XX.XX

Step 8 – Add Cameras (2)

3. In the next window, check whether MOBOTIX NAS has recognized the desired camera brand and IP address. Continue by adding any missing camera data, such as:
   - **Name:** Enter a unique description (used in QVR Pro only).
   - **Account/Password:** Access data must correspond to an ONVIF admin user for ONVIF S cameras.



Add Camera

Edit Camera Selection

The following table lists the cameras selected in Step 1. From here, you can edit the camera connection information or manually add other cameras. You can also select multiple cameras for batch editing tasks such as deleting, logging in, and testing.

Selected Cameras

☐	Preview	Name	Brand	Model	IP Address	Port	RTSP Port	Account	Password	Action
☐		ONVIF_ONVIF	ONVIF	ONVIF Pro ONVIF ProfileS Cameras	10.1.6.14	80	554			Test

Cameras selected: 1 , Cameras that can be

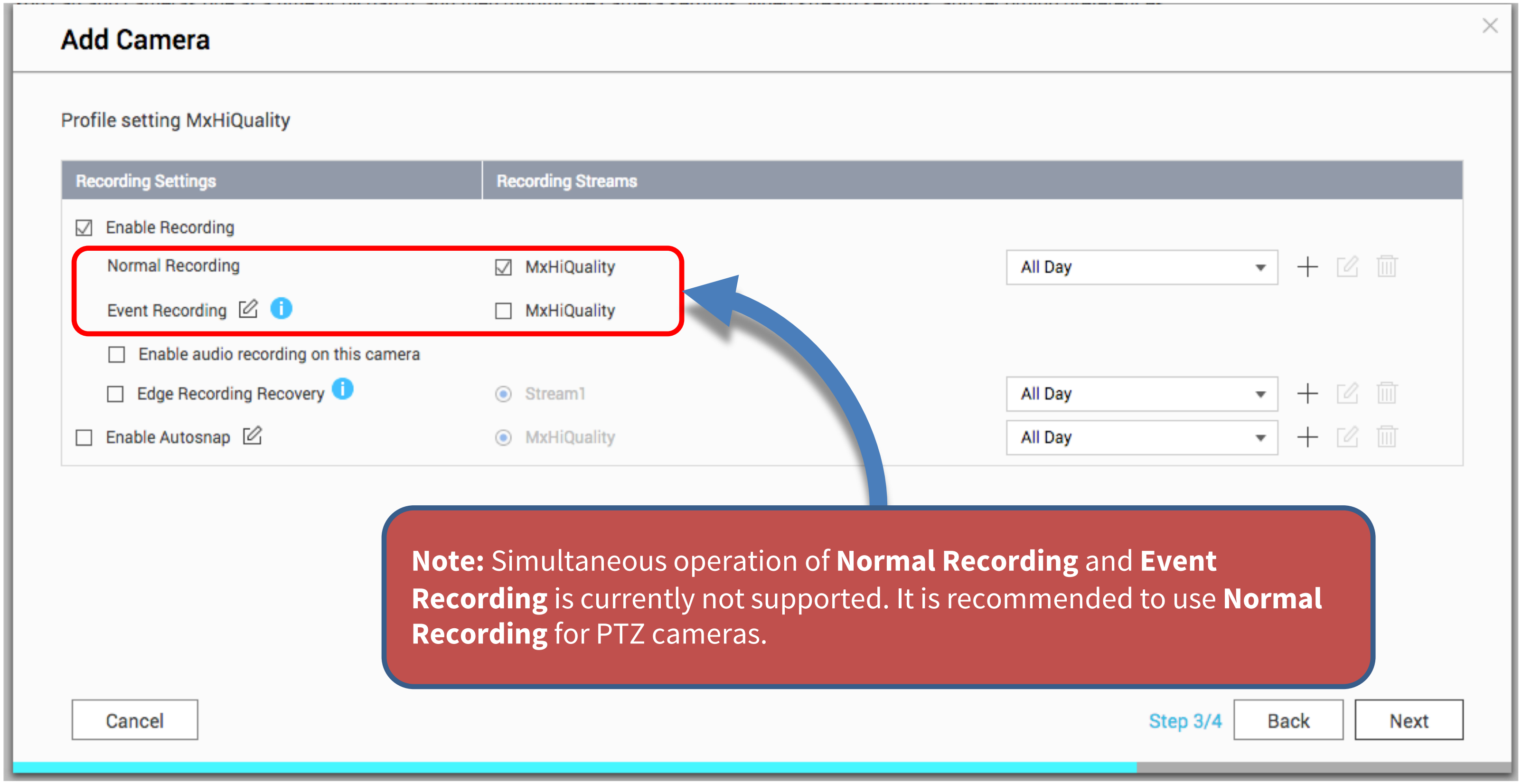
Step 2/4

1. Enter **Name** (unique description).
2. Enter **Account** and **Password**.
3. Click **Test** button for each camera.

Note: The **Preview** image will not appear in this step.

Step 8 – Add Cameras (3)

4. Define the recording settings (normal = continuous recording, event recording = event controlled) in this step.
   Note: When the camera is added, two profiles (MxHiQuality for HiRes and MxLoQuality for LoRes) are automatically created in MxMC. The values set in MxMC for MxHiQuality are automatically transferred to the MOBOTIX NAS.



Add Camera

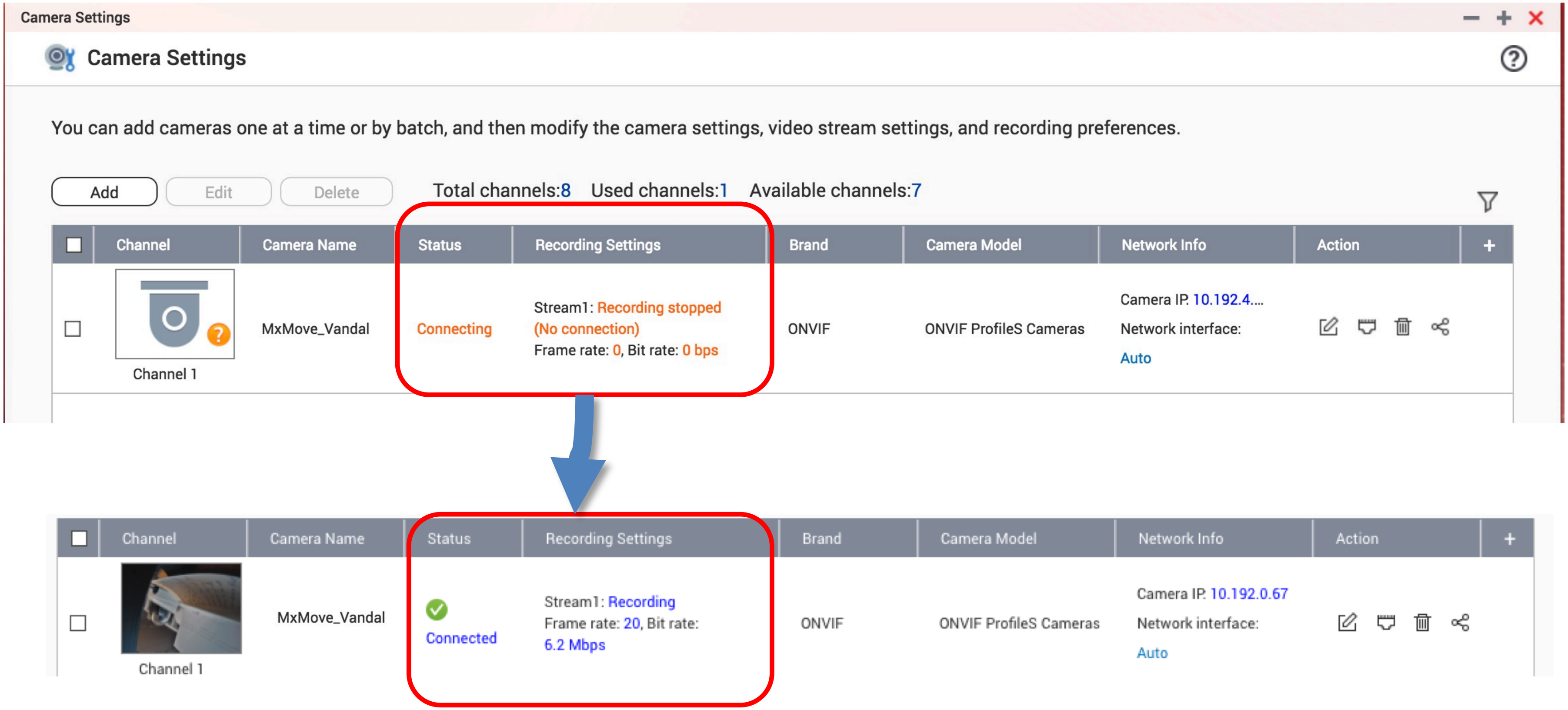
Profile setting MxHiQuality

Recording Settings	Recording Streams	
☑ Enable Recording		
Normal Recording	☑ MxHiQuality	All Day
Event Recording	☐ MxHiQuality	
☐ Enable audio recording on this camera		
☐ Edge Recording Recovery	● Stream1	All Day
☐ Enable Autosnap	● MxHiQuality	All Day

Note: Simultaneous operation of **Normal Recording** and **Event Recording** is currently not supported. It is recommended to use **Normal Recording** for PTZ cameras.

Step 9 – Finish MOBOTIX NAS Setup

1. Finish and then close the wizard.
2. In the **Camera Settings** window, check that all cameras have been added to the QVR Pro software.
3. Wait some time (~5 min) until the MOBOTIX NAS has **connected to the new cameras**.



Camera Settings

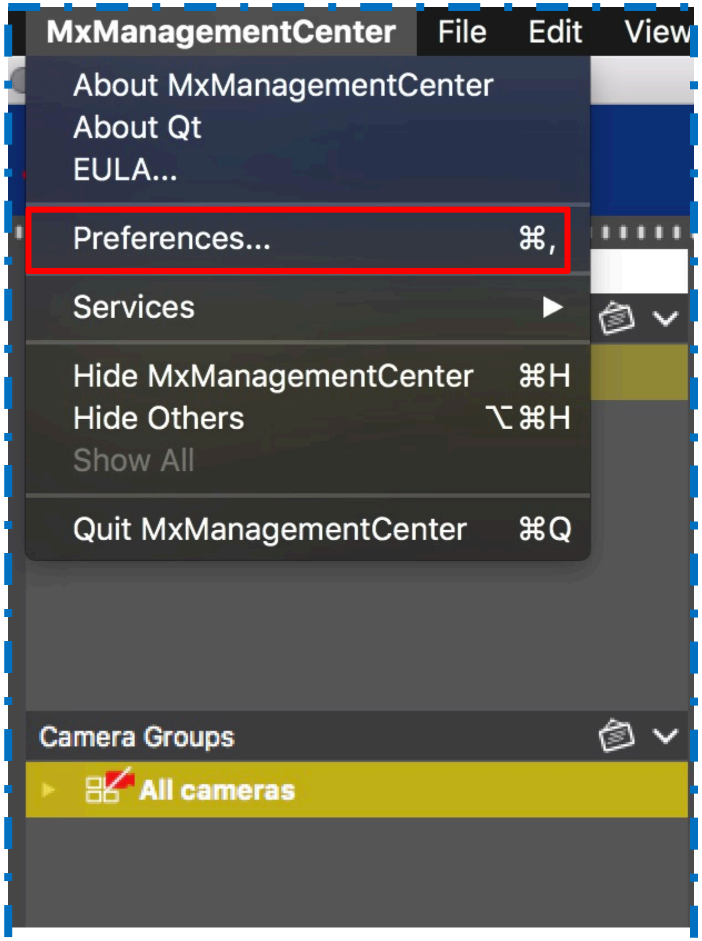
You can add cameras one at a time or by batch, and then modify the camera settings, video stream settings, and recording preferences.

Total channels:8 Used channels:1 Available channels:7

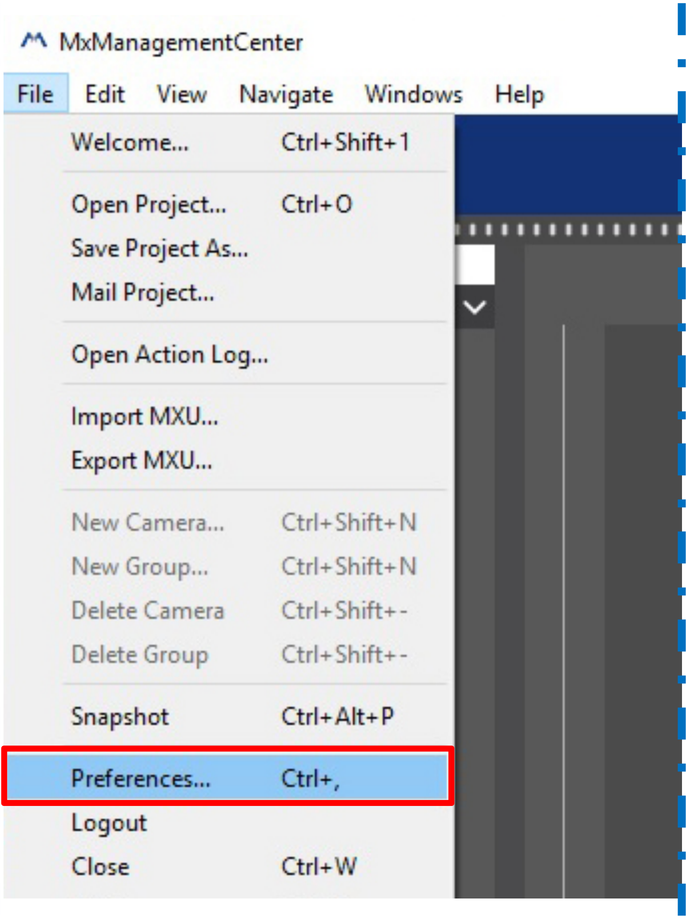
☐	Channel	Camera Name	Status	Recording Settings	Brand	Camera Model	Network Info	Action
☐	Channel 1	MxMove_Vandal	Connecting	Stream1: Recording stopped (No connection) Frame rate: 0, Bit rate: 0 bps	ONVIF	ONVIF ProfileS Cameras	Camera IP: 10.192.4.... Network interface: Auto	

☐	Channel	Camera Name	Status	Recording Settings	Brand	Camera Model	Network Info	Action
☐	Channel 1	MxMove_Vandal	✓ Connected	Stream1: Recording Frame rate: 20, Bit rate: 6.2 Mbps	ONVIF	ONVIF ProfileS Cameras	Camera IP: 10.192.0.67 Network interface: Auto	

Step 10 – Assign Recording Paths in MxManagementCenter (1)

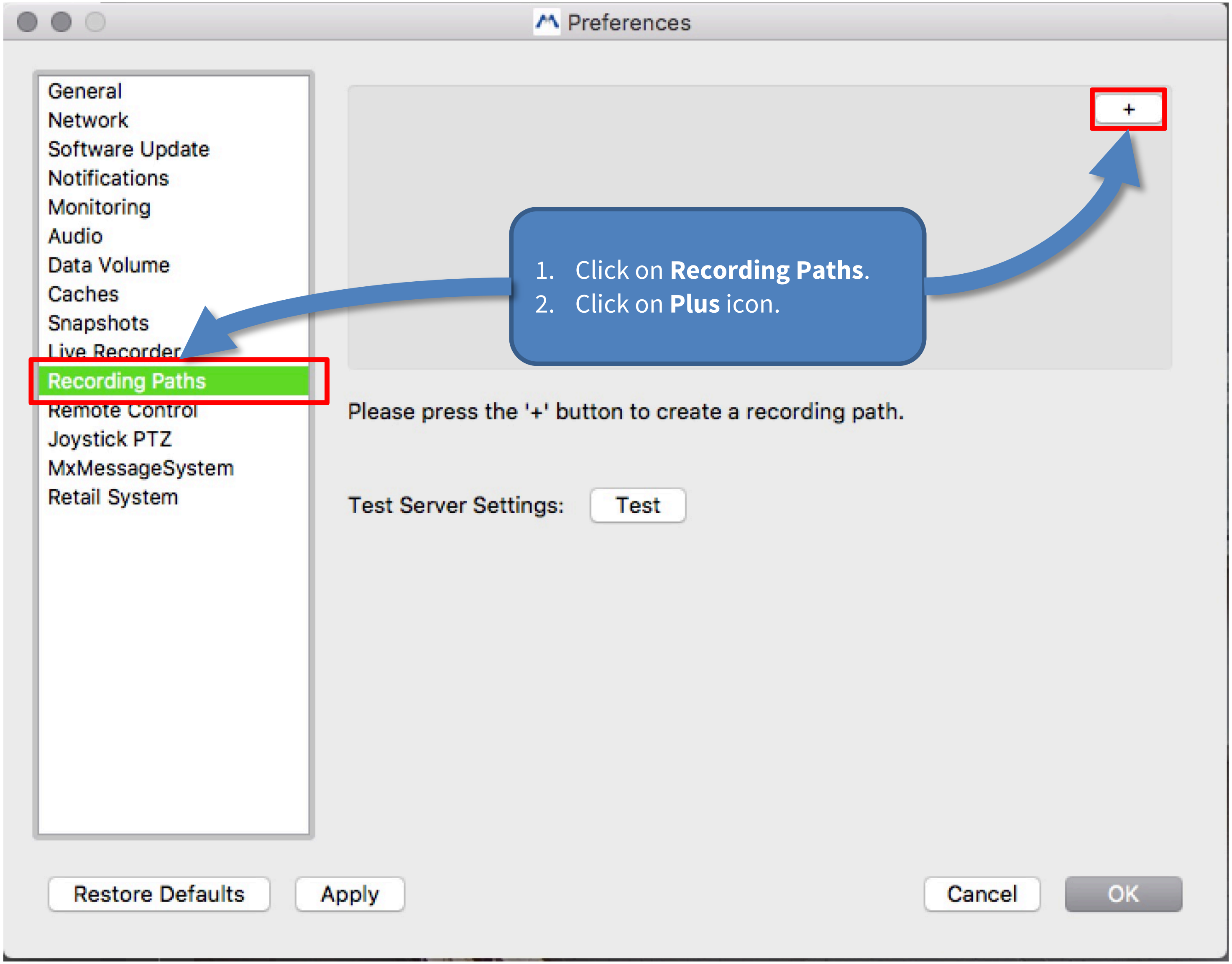

MxManagementCenter
File
Edit
View
About MxManagementCenter
About Qt
EULA...
Preferences... ⌘,
Services ▶
Hide MxManagementCenter ⌘H
Hide Others ⌥⌘H
Show All
Quit MxManagementCenter ⌘Q
Camera Groups
All cameras

Apple Mac Version


MxManagementCenter
File
Edit
View
Navigate
Windows
Help
Welcome... Ctrl+Shift+1
Open Project... Ctrl+O
Save Project As...
Mail Project...
Open Action Log...
Import MXU...
Export MXU...
New Camera... Ctrl+Shift+N
New Group... Ctrl+Shift+N
Delete Camera Ctrl+Shift+-
Delete Group Ctrl+Shift+-
Snapshot Ctrl+Alt+P
Preferences... Ctrl+,
Logout
Close Ctrl+W

Windows Version

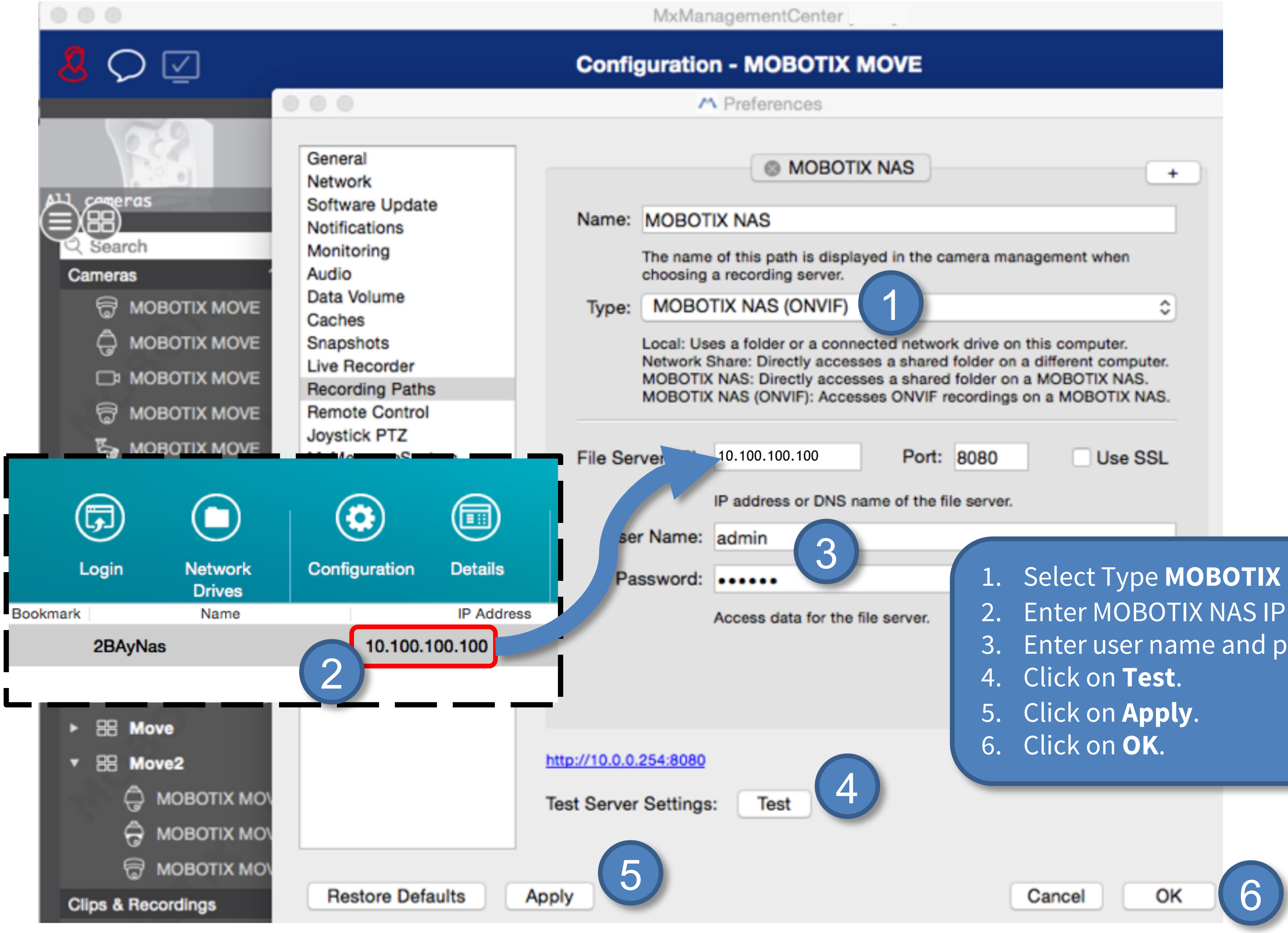
Step 10 – Assign Recording Paths in MxManagementCenter (2)


Preferences
General
Network
Software Update
Notifications
Monitoring
Audio
Data Volume
Caches
Snapshots
Live Recorder
Recording Paths
Remote Control
Joystick PTZ
MxMessageSystem
Retail System
+
Test Server Settings:
Test
Restore Defaults
Apply
Cancel
OK

Please press the '+' button to create a recording path.

1. Click on **Recording Paths**.
2. Click on **Plus** icon.

Step 10 – Assign Recording Paths in MxManagementCenter (3)


MxManagementCenter
Configuration - MOBOTIX MOVE
Preferences
All cameras
Search
Cameras
MOBOTIX MOVE
MOBOTIX MOVE
MOBOTIX MOVE
MOBOTIX MOVE
MOBOTIX MOVE
Move
Move2
MOBOTIX MO
MOBOTIX MO
MOBOTIX MO
Clips & Recordings
General
Network
Software Update
Notifications
Monitoring
Audio
Data Volume
Caches
Snapshots
Live Recorder
Recording Paths
Remote Control
Joystick PTZ
MOBOTIX NAS
+
Login
Network Drives
Configuration
Details
Restore Defaults
Apply
Cancel
OK
1
2
3
4
5
6

Name: MOBOTIX NAS

The name of this path is displayed in the camera management when choosing a recording server.

Type: MOBOTIX NAS (ONVIF)

Local: Uses a folder or a connected network drive on this computer.
Network Share: Directly accesses a shared folder on a different computer.
MOBOTIX NAS: Directly accesses a shared folder on a MOBOTIX NAS.
MOBOTIX NAS (ONVIF): Accesses ONVIF recordings on a MOBOTIX NAS.

File Server: 10.100.100.100 Port: 8080 ☐ Use SSL

IP address or DNS name of the file server.

User Name: admin

Password: ••••••

Access data for the file server.

http://10.0.0.254:8080

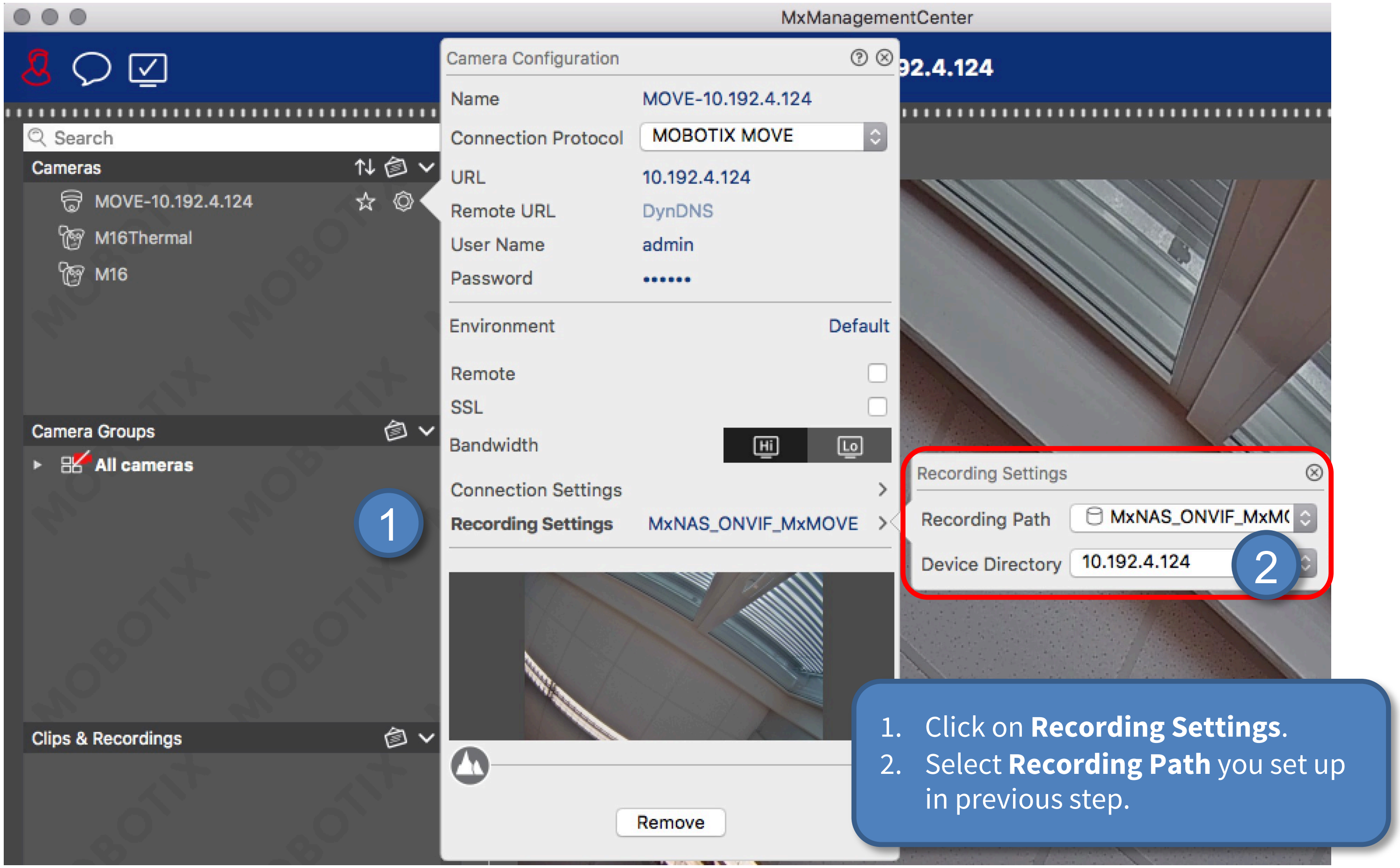
Test Server Settings: Test

Bookmark	Name	IP Address
	2BAyNas	10.100.100.100

1. Select Type **MOBOTIX NAS (ONVIF)**.
2. Enter MOBOTIX NAS IP Address.
3. Enter user name and password.
4. Click on **Test**.
5. Click on **Apply**.
6. Click on **OK**.

Step 11 – Set up MxMC Recording Settings for Each Camera

1. In the **Recording Settings** of MxManagementCenter, select the corresponding **Recording Path** (MOBOTIX NAS). Then make sure that the correct camera IP is specified under **Device Directory**.


MxManagementCenter
92.4.124
Search
Cameras
MOVE-10.192.4.124
M16Thermal
M16
Camera Groups
All cameras
Clips & Recordings
Camera Configuration
Environment
Default
Bandwidth
Hi
Lo
Connection Settings
Remove
1
2

Camera Configuration

Name: MOVE-10.192.4.124
Connection Protocol: MOBOTIX MOVE
URL: 10.192.4.124
Remote URL: DynDNS
User Name: admin
Password: ••••••
Remote ☐
SSL ☐
Recording Settings: MxNAS_ONVIF_MxMOVE

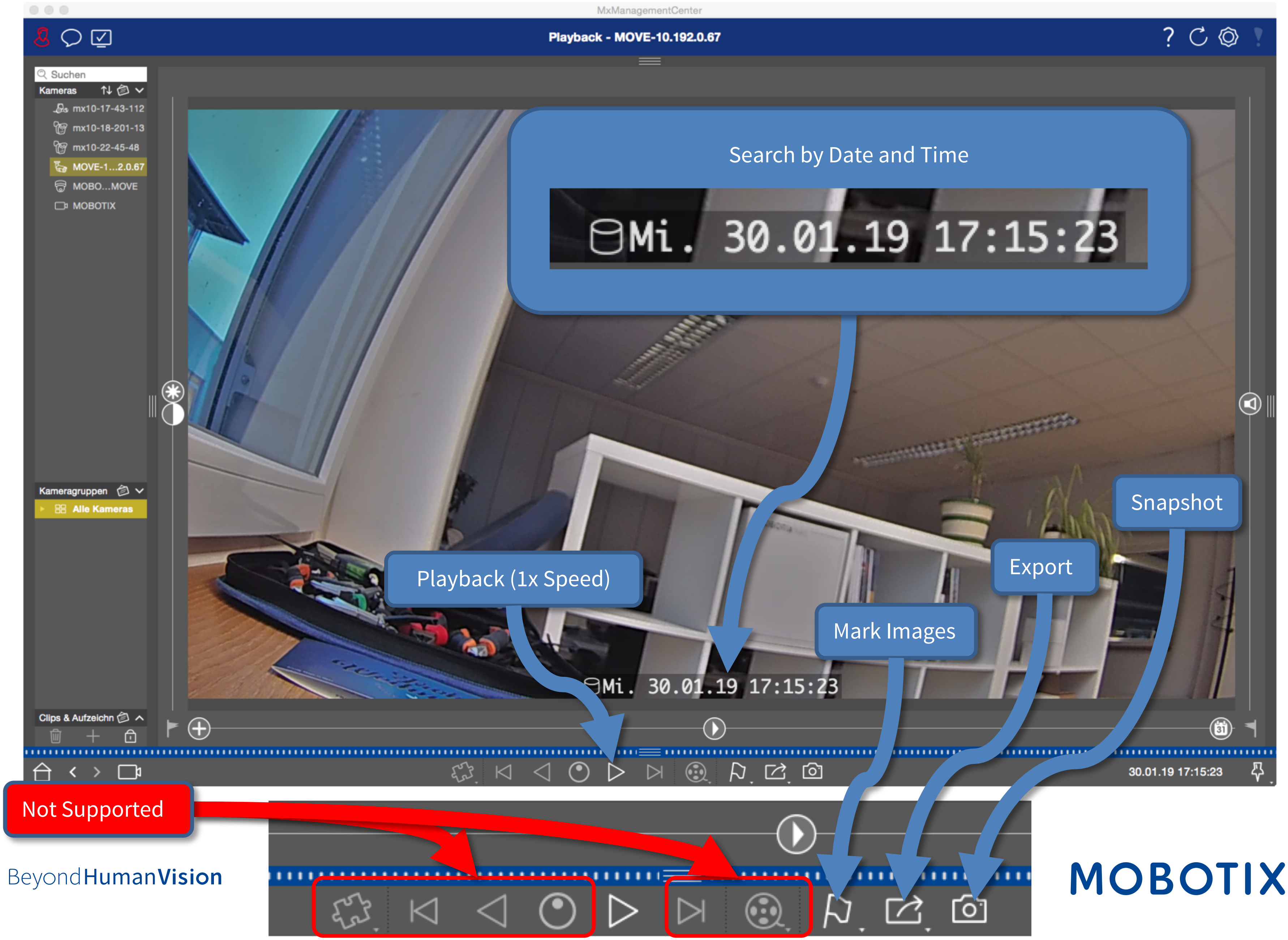
Recording Settings

Recording Path: MxNAS_ONVIF_MxM(
Device Directory: 10.192.4.124

1. Click on **Recording Settings**.
2. Select **Recording Path** you set up in previous step.

2. You can now play back the camera recordings in MxManagementCenter.

Done – MxMC Playback of MOVE/ONVIF Cameras



Search by Date and Time

Mi. 30.01.19 17:15:23

Snapshot

Export

Playback (1x Speed)

Mark Images

Not Supported

MxManagementCenter
Playback - MOVE-10.192.0.67
Suchen
Kameras
mx10-17-43-112
mx10-18-201-13
mx10-22-45-48
MOVE-1...2.0.67
MOBO...MOVE
MOBOTIX
Kameragruppen
Alle Kameras
Clips & Aufzeichn
Mi. 30.01.19 17:15:23
30.01.19 17:15:23

Beyond **Human Vision**

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