

# NUUO Titan Netzwerkrekorder

## Technisches Intensivtraining



# Agenda

- Installation
- IP-Kamera Einrichtung
- Aufzeichnung
- E-Mail Benachrichtigung
- RAID
- Auto Backup
- Netzwerk
- Command Chain
- NuClient
- Troubleshooting

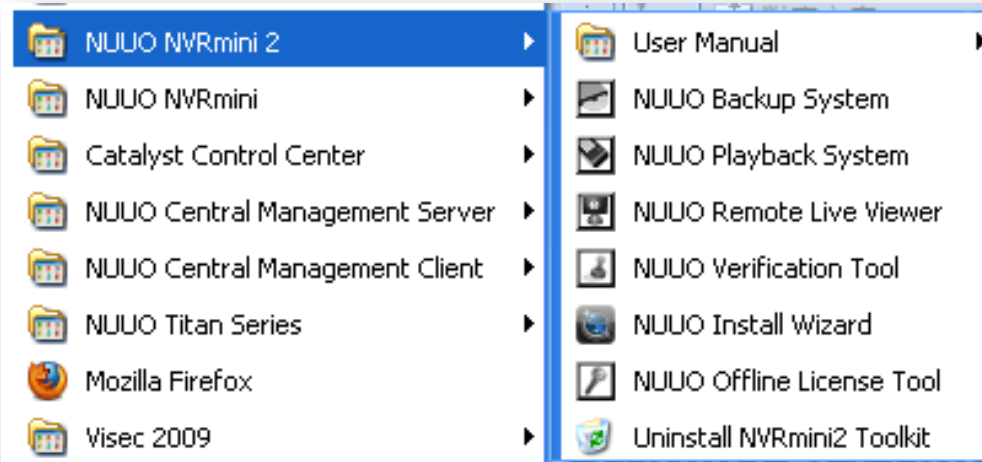
# Installation



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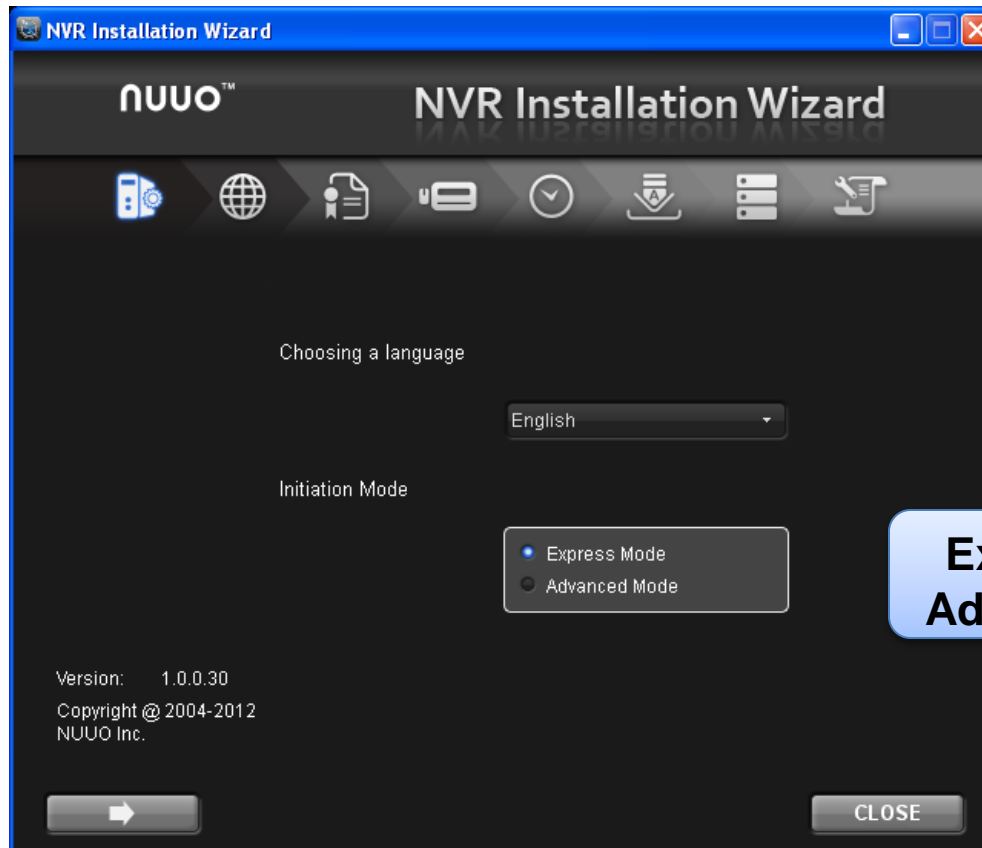
# Software Installation

- Funktionen bei allen Anwendungen



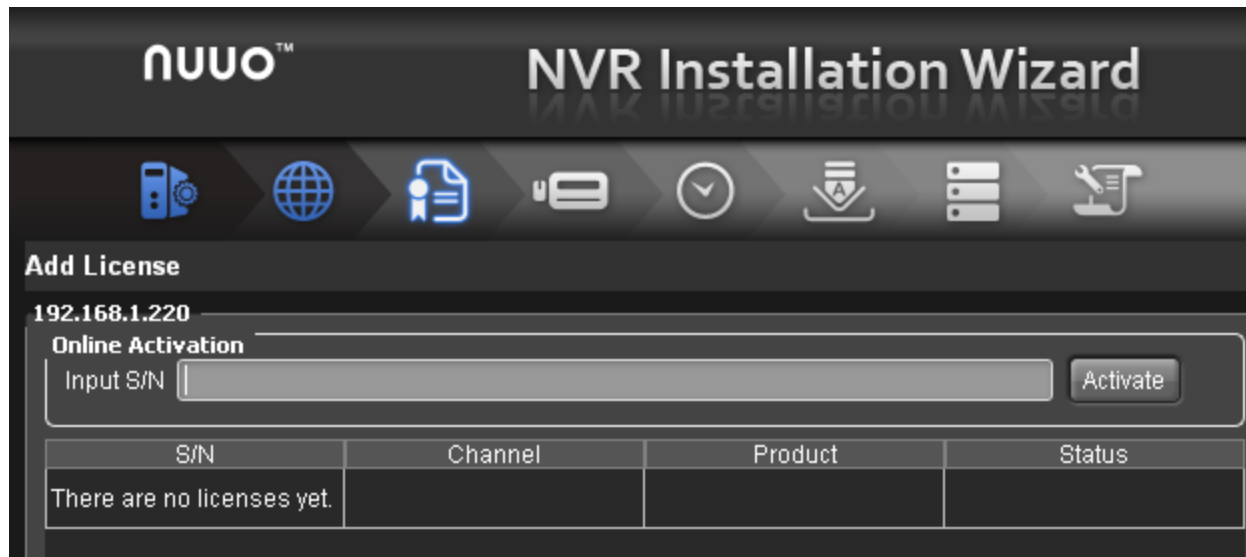
# Install Wizard

- Öffnen des Install Wizards
- Unterschiede zwischen Express Modus und Advanced Modus



# Install Wizard

- Es ist nicht erforderlich, Lizenzen zu ergänzen – es sei denn, es sollen mehr IP-Kameras angeschlossen werden.



The screenshot shows the 'NUUO™ NVR Installation Wizard' interface. At the top, there is a navigation bar with several icons: a camera, a globe, a document with a ribbon, a USB drive, a clock, a download arrow, a server rack, and a document with a pencil. Below the navigation bar, the 'Add License' section is active. It displays the IP address '192.168.1.220' and the 'Online Activation' option. There is a text input field labeled 'Input S/N' and an 'Activate' button. Below this, there is a table with four columns: 'S/N', 'Channel', 'Product', and 'Status'. The table is currently empty, with the text 'There are no licenses yet.' displayed in the first row.

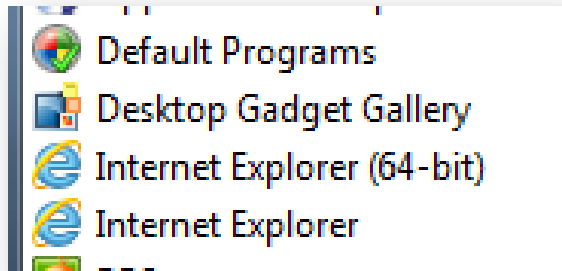
S/N	Channel	Product	Status
There are no licenses yet.			

# Install Wizard - Troubleshooting

- Falls der Install Wizard den Rekorder nicht finden sollten, gehen Sie bitte wie folgt vor:
  - Deaktivieren Sie die Windows Firewall
  - Bauen Sie die Festplatte aus
  - Deaktivieren Sie den Antivirus
  - Schließen Sie den Titan direkt an Ihren PC/Laptop an
  - Unterbrechen Sie die LAN2 Verbindung

# Unterstützte Browser

- Momentan werden Internet Explorer und Safari (Windows Version) unterstützt.
- Verwenden Sie Version 8 oder höher.
- Verwenden Sie 32 Bit anstelle von 64 Bit.
- Deaktivieren Sie die Tool Bar.
- Löschen Sie ActiveX.
- Deaktivieren Sie für einen Augenblick den Antivirus.



**Internet Explorer (64-bit)**  
**Internet Explorer**





# IP-Kamera Einrichtung



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# IP-Kamera Einrichtung

- Alle SANTEC IP-Kameras sind im Titan integriert.  
Andere Hersteller auf Anfrage.

### Camera Settings

Camera Settings    Camera Search

**Camera Settings**

Camera No.	Camera 1		
Camera Name	PTZ		
Address	192.168.1.151	Port	80
Administrator Name	admin	Password	•••••
Video Channel	1	Protocol	<input type="radio"/> TCP <input type="radio"/> UDP <input checked="" type="radio"/> HTTP
Vendor	Sony	Model	

Save    Reset    Clear    Auto

**NVR Version**  
**Kamera Package Version**

### System Information

System Information

**Information**

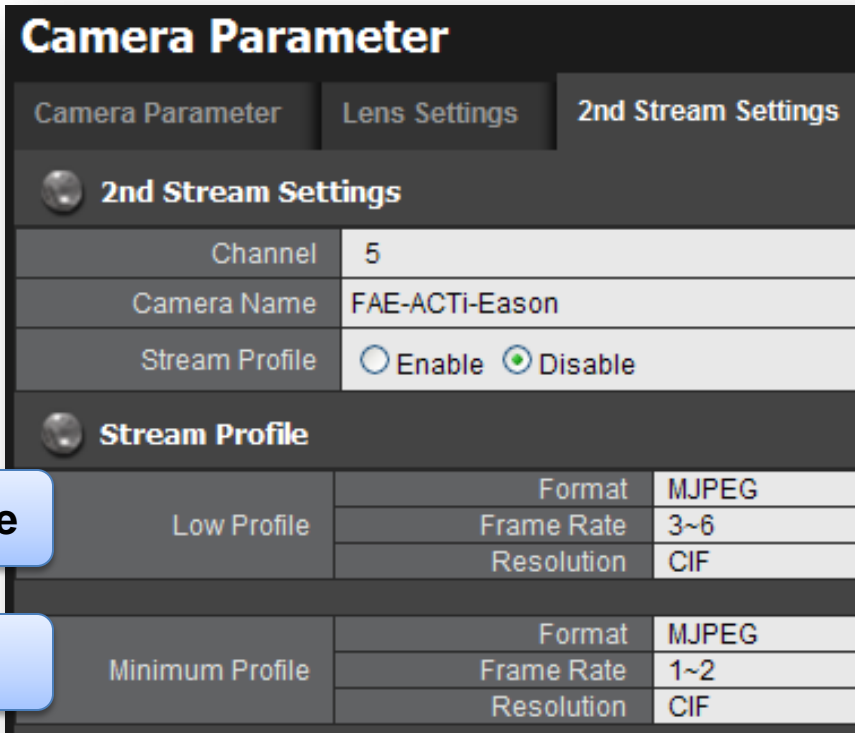
Operating System	Linux
NVR Version	01.03.0000.0128
Camera package version	02.01.0000.0008
CPU	Intel(R) Atom(TM) CPU D525 @ 1.80GHz
MAC Address 1	50:E5:49:6E:A3:20
MAC Address 2	50:E5:49:6E:82:2C

# IP-Kamera Einrichtung

- Welche Protokolle werden verwendet?
  - TCP
  - UDP
  - HTTP
- ONVIF Support
- SANTEC IP-Kameras sind im Titan integriert.  
Andere Hersteller können über die Kompatibilitätsliste von NUUO einsehbar.

# IP-Kamera Einrichtung

- Der zweite Stream wird für den Fernzugriff benötigt, z.B. über Smartphone.



**Camera Parameter**

Camera Parameter   Lens Settings   **2nd Stream Settings**

**2nd Stream Settings**

Channel	5
Camera Name	FAE-ACTi-Eason
Stream Profile	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

**Stream Profile**

Low Profile	Format	MJPEG
	Frame Rate	3~6
	Resolution	CIF
Minimum Profile	Format	MJPEG
	Frame Rate	1~2
	Resolution	CIF

**Low Profile**

**Minimum Profile**

# Aufzeichnung



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# Aufzeichnung

- Folgende Aufzeichnungsarten werden unterstützt:
  - Daueraufnahme
  - Bewegungsaufnahme (durch Bewegung der Kamera)
  - Alarmaufnahme (durch externe I/O Kontakte)



# Aufzeichnung

- Stellen Sie sicher, dass die Bewegungserkennungsfunktion der IP-Kamera unterstützt wird.
- Bitte aktivieren Sie die Bewegungserkennung der IP-Kamera über das Web Interface.

The screenshot displays the 'Recording Settings' web interface. The 'Recording Schedule' tab is active, showing a schedule for four cameras (Cam1 to Cam4) over a 24-hour period. The schedule is visualized as a grid where red bars indicate recording times. Cam1 and Cam3 are scheduled to record from 00:00 to 24:00. Cam2 and Cam4 are scheduled to record from 00:00 to 18:00. The interface includes a 'Camera List' on the left, a 'Schedule' grid on the right, and a table at the bottom for recording parameters. A note at the bottom reminds the user to enable motion detection before setting recording on motion.

**Recording Settings**

Recording Mode | **Recording Schedule**

**Recording Schedule**

1-16 | 17-32 | 33-48 | 49-64

☒ Day ☐ Week

**Camera List**

- Camera List
  - Camera1
  - Camera2
  - Camera3
  - Camera4

**Schedule**

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Cam1	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Cam2	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
Cam3	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Cam4	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Insert Delete Configure Copy




Start Time	End Time	Record	Audio
00:00	24:00	Always	Disable








Save Reset

Before setting record on motion, remember to enable "motion detection" function in camera web first.

# Aufzeichnung

- Überprüfen Sie die Bildrate, die Bitrate und den Aufnahmestatus.

	Status	Icon
Connection Status	Connected	
Connection Status	Disconnected	
Connection Status	Connecting	

	Status	Icon
Recording Status	No Recording	
Recording Status	Always Recording – Recording	
Recording Status	Always Recording – Stopped	
Recording Status	Schedule Recording – Recording	
Recording Status	Schedule Recording – Stopped	
Recording Status	Manual Recording – Recording	
Recording Status	Manual Recording – Stopped	



# E-Mail Benachrichtigung




# E-Mail Benachrichtigung

- Momentan funktioniert die E-Mail Benachrichtigung nur über Gmail (Einstellungen siehe unten).
- Verwenden Sie LAN1 für die Internet-Verbindung.

## E-Mail

**SMTP Server****Contacts**

 **SMTP Server**

Server Addresssmtp.gmail.comPort465☒ use ssl

Sendereason@nuuo.com

SubjectTitan Test

BodyNSS

SMTP Authentication☒

User Nameeason@nuuo.comPassword•••••

SaveReset

Send Test Mail

The function is workable as LAN 1 is connected to WAN.

# E-Mail Benachrichtigung

- Gehen Sie zu "Event & Action Management" und wählen Sie ein Ereignis und eine Aktion.

The screenshot displays the NT-4040(R) web interface. On the left is a sidebar menu with the following items: IP Camera, Recording & Event (checked), Recording Settings, Event & Action Management (highlighted in blue), E-Mail, RAID & File System, I/O Settings, Network Setup, Management, and System. The main content area is titled "Event & Action Management". It features a sub-tab "Event & Action" and a row of buttons: 1-16, 17-32, 33-48, 49-64, I/O BOX, and System. Below these are two panels. The "Camera List" panel on the left has a "Configure" button and a tree view showing "PTZ" expanded with four items: "Connect lost" (checked), "Motion from Camera" (checked and highlighted), "Input#0" (unchecked), and "Input#1" (unchecked). The "Event & Action" panel on the right has "Add", "Del", and "Configure" buttons. It contains a table with the following data:

Action	
E-Mail	esaon
Output	Trigger: Output#0 on PTZ
On Screen Display	

# RAID



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# RAID

- Bei der RAID Auswahl beachten Sie bitte folgendes:
  - Festplatten-Bandbreite
  - Anzahl der Festplatten
  - Kapazität der Festplatten
  - Online RAID Kalkulator:  
<http://www.z-a-recovery.com/art-raid-estimator.htm>

# Auto Backup



# Auto Backup

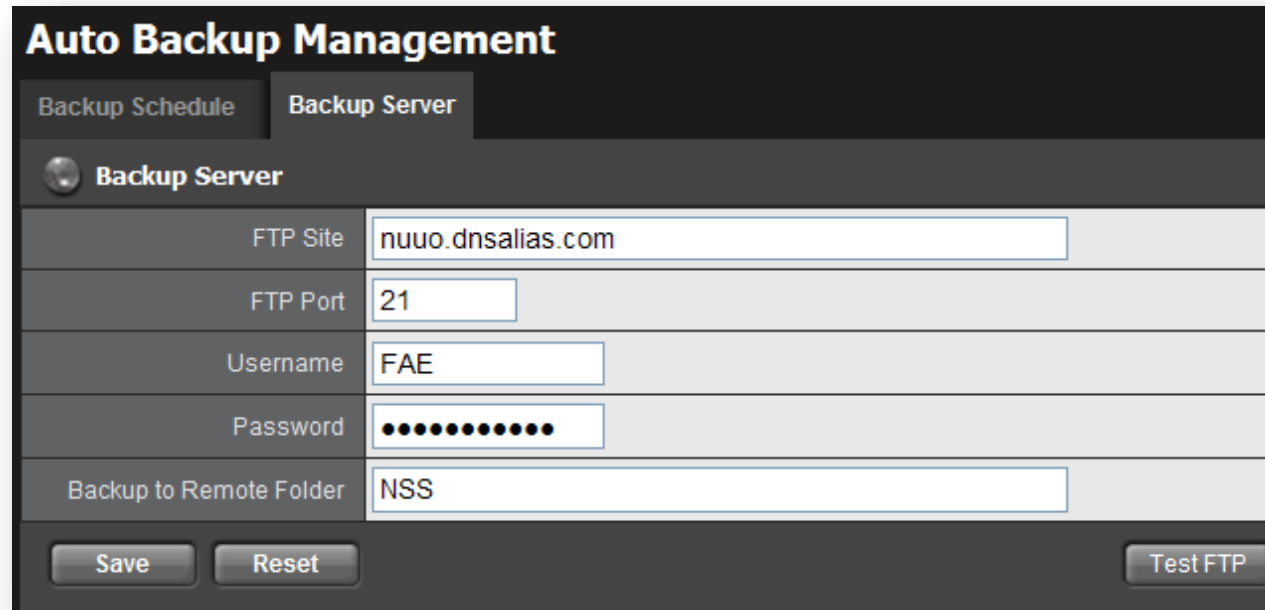
- Der Auto Backup funktioniert nicht in Echtzeit, sondern mit einem Tag Versatz.
- Stellen Sie sicher, dass sich Aufnahmedaten am vorherigen Tag befinden.

The screenshot displays the web interface of a NUUO NT-4040(R) device. On the left is a navigation menu with options: IP Camera, Recording & Event, RAID & File System (expanded), RAID Management, iSCSI Initiator, Auto Backup Management (selected), I/O Settings, Network Setup, Management, and System. Below the menu, it shows 'Firmware Version: 1.3.3' and 'Free Capacity: 45.7 GB'. The main area is titled 'Auto Backup Management' and has two tabs: 'Backup Schedule' (active) and 'Backup Server'. Under 'Backup Schedule', there is a 'Backup Schedule' section with a globe icon. It contains a table with settings: 'Auto Backup' (checked 'Enable'), 'Daily Backup Time' (08 : 00), 'Start Time' (09 : 00), and 'End Time' (18 : 00). Below this is a 'Camera' section with a 'select: all / none' dropdown and checkboxes for Ch 1, Ch 2 (checked), Ch 9, Ch 10, Ch 17, and Ch 18. At the bottom is a 'Current Event Settings' section with a globe icon, containing 'Unable to access FTP' (Enable) and 'Backup unfinished' (Enable). 'Save' and 'Reset' buttons are at the very bottom.

Auto Backup Management	
Backup Schedule	
<b>Backup Schedule</b>	
Auto Backup	<input checked="" type="checkbox"/> Enable
Daily Backup Time	08 : 00
Start Time	09 : 00
End Time	18 : 00
Camera	select: all / none <input type="checkbox"/> Ch 1 <input checked="" type="checkbox"/> Ch 2 <input type="checkbox"/> Ch 9 <input type="checkbox"/> Ch 10 <input type="checkbox"/> Ch 17 <input type="checkbox"/> Ch 18
<b>Current Event Settings</b>	
Unable to access FTP	Enable
Backup unfinished	Enable
Save Reset	

# Auto Backup

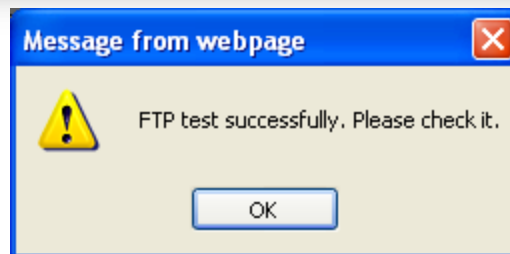
- Gehen Sie zu "Backup Server", um den FTP zu konfigurieren und klicken Sie auf "Test FTP" für einen Test.



The screenshot shows the 'Auto Backup Management' window with the 'Backup Server' tab selected. The configuration fields are as follows:

Backup Server	
FTP Site	nuuo.dnsalias.com
FTP Port	21
Username	FAE
Password	••••••••
Backup to Remote Folder	NSS

At the bottom, there are three buttons: 'Save', 'Reset', and 'Test FTP'.



**FTP Test erfolgreich**



# Netzwerk



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# Netzwerk Service

- Max. können sich 256 Benutzer gleichzeitig an einem Titan anmelden.
- Black/White Liste: Eingrenzung der Benutzer durch IP-Adresse.

**NT-4040(R)**

- > IP Camera
- > Recording & Event
- > RAID & File System
- > I/O Settings
- ▼ Network Setup
  - > Network Setup
  - > **Network Service**
  - > Main Server / Sub Server
- > Management
- > System

Firmware Version: 1.3.3  
Free Capacity: 45.7 GB

## Network Service

Network Service | Web Server

### Streaming Server

Port	5250
Live View Maximum Connections	256

### Black/White List

White List	<input type="checkbox"/> Enable
Black List	<input type="checkbox"/> Enable

IP Range

	to	
<input type="button" value="Add to White List"/> <input type="button" value="Add to Black List"/>		
Index	IP	

**Streaming Port**

# Netzwerk-Einstellung

- Netzwerkadapter 1 wird benötigt, um eine Internetverbindung herzustellen.

**Network Setup**

Information Setup DDNS Setup UPnP Port Forwarding

**Common Setting**

Server Name Demo\_Machine

**Ethernet Adapter 1 Setting**

Internet Protocol ☐ Obtain an IP address automatically ☒ Specify an IP address

IP Address 192.168.1.115

Subnet Mask 255.255.252.0

Default Gateway IP Address 192.168.1.1

Primary DNS 192.168.1.1

Secondary DNS 168.95.1.1

**Ethernet Adapter 2 Setting**

Internet Protocol ☐ Obtain an IP address automatically ☒ Specify an IP address

IP Address 192.168.2.116

Subnet Mask 255.255.255.0

Default Gateway IP Address 192.168.1.1

Primary DNS 192.168.1.1

Secondary DNS

# Command Chain



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# Command Chain

- Es können unbegrenzt viele Sub-Server hinzugefügt werden.
- Folgende Informationen werden benötigt:
  - IP-Adresse
  - Port

**NT-4040(R)**

- > IP Camera
- > Recording & Event
- > RAID & File System
- > I/O Settings
- ▼ Network Setup
  - > Network Setup
  - > Network Service
  - > **Main Server / Sub Server**
  - > Management
  - > System

Firmware Version: 1.3.3  
Free Capacity: 45.7 GB

### Main Server / Sub Server

Main Server / Sub Server | User Sync.

#### Sub Server Settings

Server No.	10		
LAN IP Address	192.168.1.117		
LAN Streaming Port	18384	LAN Web Port	80
WAN IP Address			
WAN Streaming Port		WAN Web Port	
Administrator Password	•••••		

**Add** **Modify**

#### Sub Server List

No.	LAN IP	LAN Streaming Port	WAN IP	WAN
10	192.168.1.117	18384	-	-

**Save** **Reset**

# Command Chain

**NUUO™**

**NT-4040(R)**

- > IP Camera
- > Recording & Event
- > RAID & File System
- > I/O Settings
- ▼ **Network Setup**
  - > Network Setup
  - > Network Service
  - > Main Server / Sub Server**
  - > Management
  - > System

Firmware Version: 1.3.0  
Free Capacity: 436 GB

### Main Server / Sub Server

Main Server / Sub Server **User Sync.**

**Sub Server List**  
Please make sure both web port and administrator password of sub servers are filled in before synchronizing users.  
select: all / none

	No.	LAN IP	LAN Web Port	WAN IP	WAN Web Port
<input checked="" type="checkbox"/>	1	192.168.5.10	80	-	-

**Synchronize**

Message from webpage

ⓘ All user accounts of this main server will be synchronized to the selected sub servers, which implies the current user accounts on sub servers will be deleted. Do you want to continue?

**OK** Cancel

**User Sync.**

**Completed**

No.	Status
1	Succeed

**OK**

- Synchronisation der Benutzerrechte

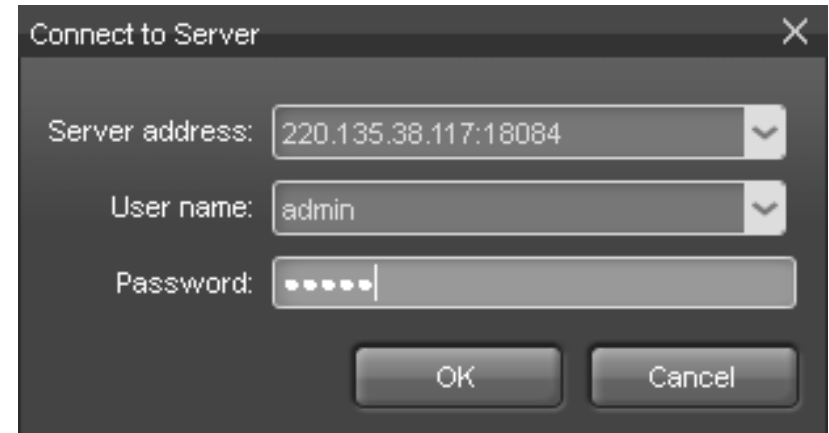
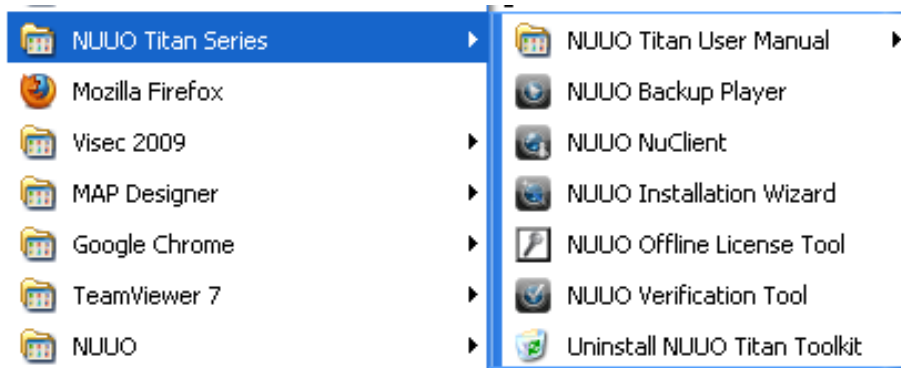
# NuClient



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# Login

- Öffnen des NuClient





# Benutzerdefiniertes Layout

The screenshot displays the NUUO VMS software interface with a custom layout. The interface is divided into several sections:

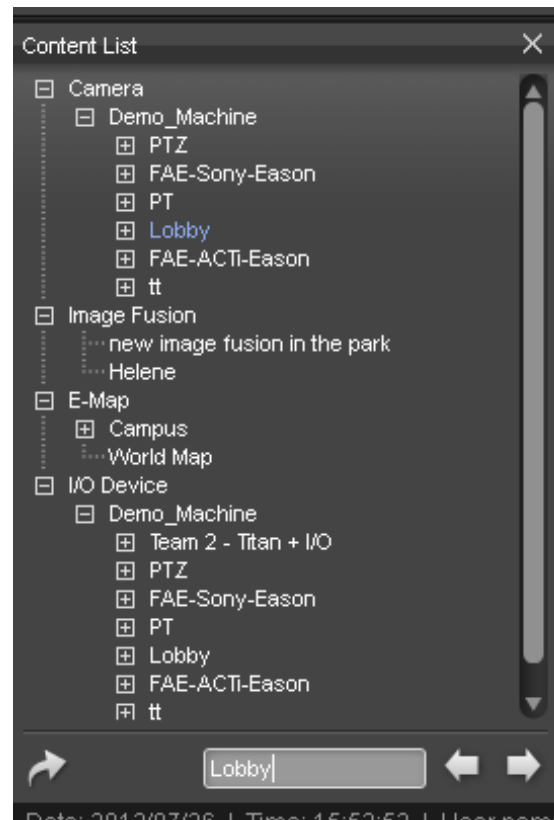
- View List:** A tree view on the left showing a hierarchy of views. Under "Public Views", there is a "Parking Lot" view, which is currently selected. Other views include "Entrance", "Office", "View Tour", "For Teachers", "New View Tour", "Ericstest", "Scott View", "Naty", "New Group", "test", and "Private Views".
- Content List:** A tree view on the left showing a hierarchy of content. Under "Camera", there is a "Demo\_Machine" content, which is currently selected. Other content includes "PTZ", "FAE-Sony-Eason", "PT", "Lobby", "FAE-ACTI-Eason", "tt", "Image Fusion", "new image fusion in the park", "Helene", "Chichi", "Hung", "erickson(3)", "Nueva Fusión de Imagen", "AV8185DN", "E-Map", "I/O Device", and "Demo\_Machine".
- Main Display Area:** A large area in the center showing multiple video feeds. The top row has three feeds, and the bottom row has three feeds. All feeds currently display "No Content Assigned".
- PTZ Panel:** A control panel for the PTZ camera, located at the bottom left. It includes a "PTZ Panel" tab, a "PTZ" dropdown menu, and a "PTZ" button. The panel also features a "T" button, a "W" button, a "C" button, and an "AF" button.
- Event List:** A table at the bottom center showing event data. The table has columns for "Time", "Event name", "Server", and "Source".
- Properties:** A panel on the right showing the properties of the selected content. It includes a "Content Title" field, a "Server type" dropdown, and various status fields.

The status bar at the bottom of the interface displays the following information:

Date: 2012/07/26 | Time: 15:44:39 | User name: admin | Server address: 220.135.38.117:18084 | CPU loading: 11% | Memory usage: Total 2047MB Free 640MB | Network: Download 2699.00 kbps Upload 21.07 kbps

# Content List

- Beinhaltet Informationen über die angeschlossenen Titan-Rekorder und IP-Kameras.
- Suche nach Namen.



# Tool Bar

- Sofortige Wiedergabe
- Snapshot
- Manuelle Aufzeichnung
- Audio ein/aus
- Kamera verbinden bzw. Verbindung unterbrechen
- Aufnahmestatus überprüfen



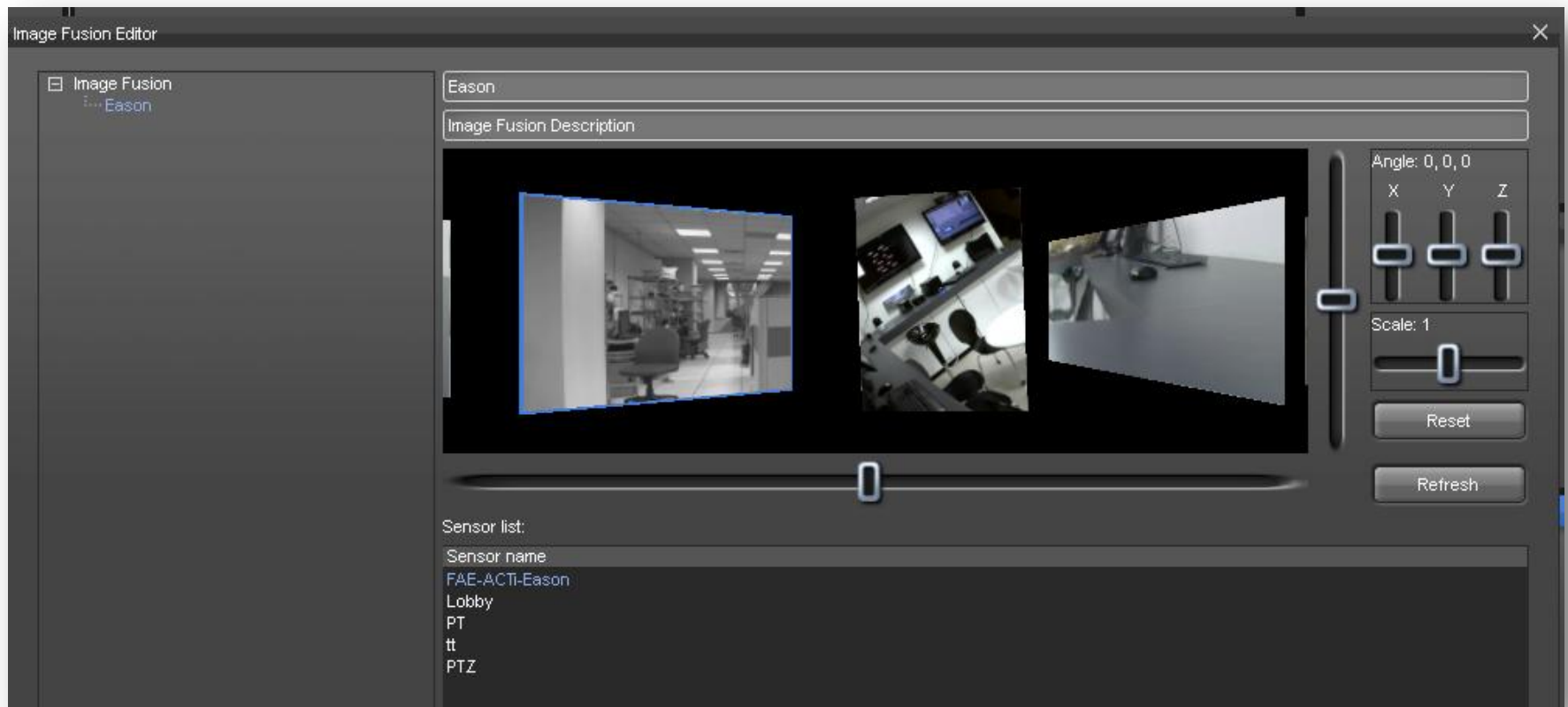
# E-Map

- Es können unbegrenzt viele Schichten erstellt werden.
- Unterstützte Format:
  - BMP
  - JPEG



# Image Fusion

- Es können bis zu 4 Kameras bei Image Fusion verwendet werden.



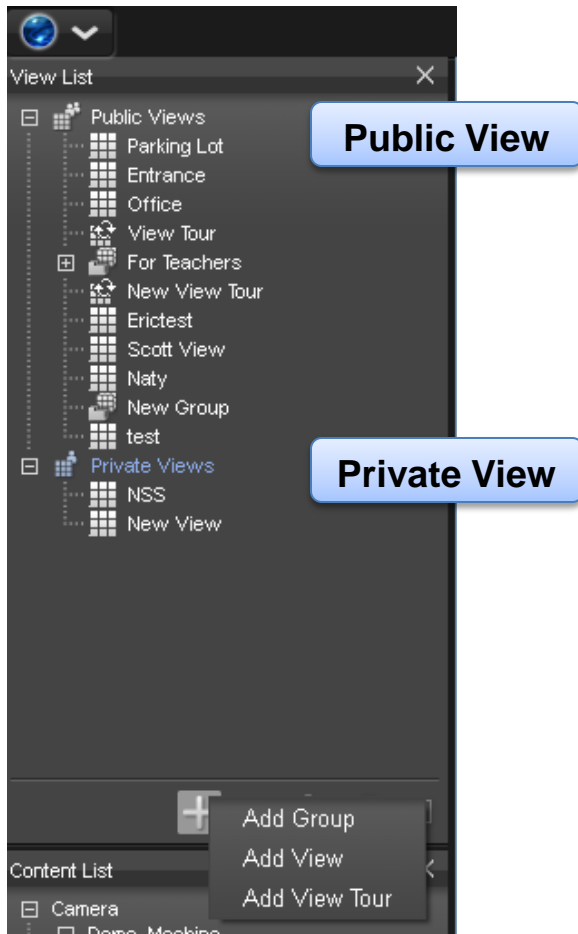
# View List

- Sie können Ihre bevorzugte Ansicht erstellen und speichern.
- Es sind mehrere Ansichten möglich.



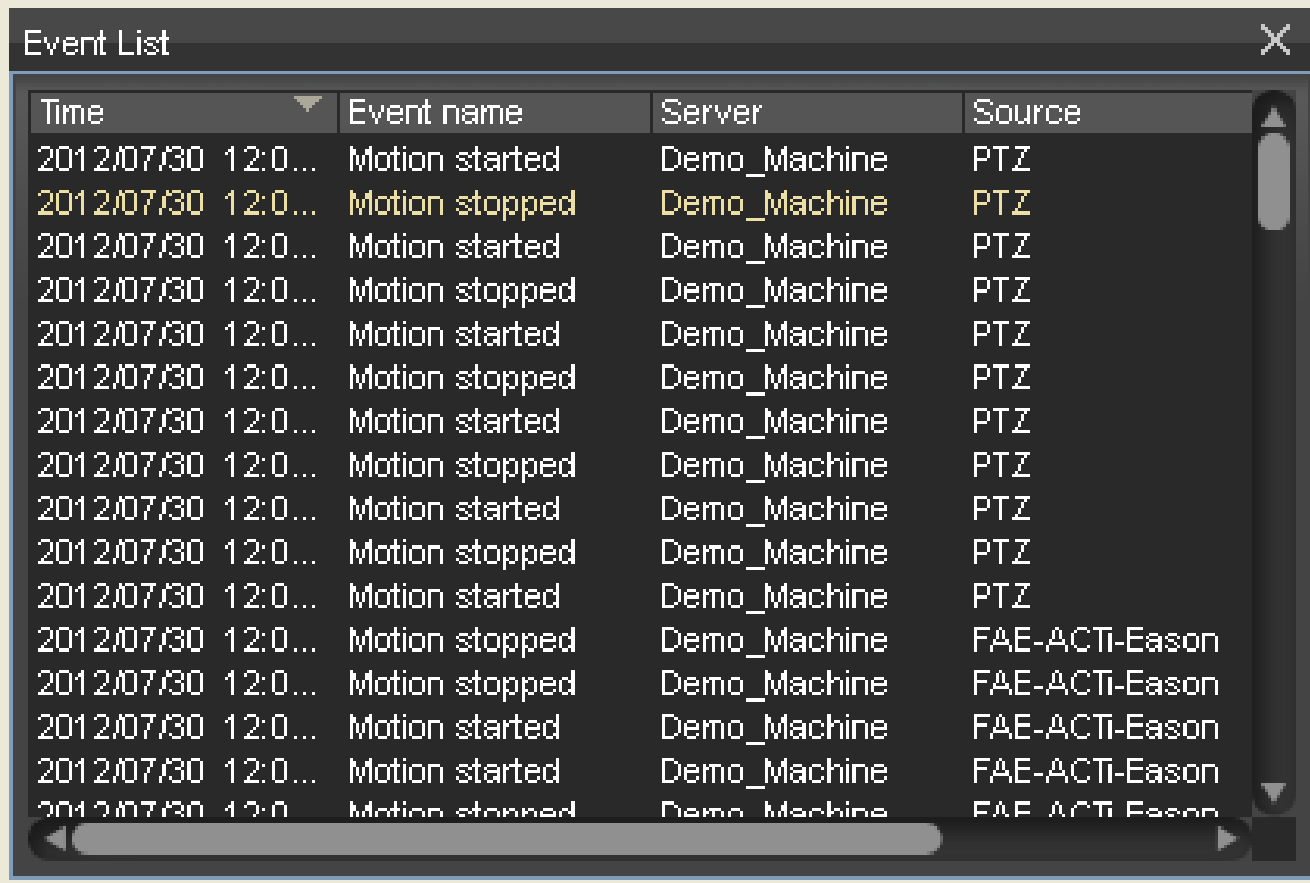
# Public & Private View

- Public View: Für alle Benutzer sichtbar
- Private View: Nur für den eingeloggten Benutzer sichtbar.



# Ereignisliste

- Durch Doppelklick zur Live-Ansicht gelangen



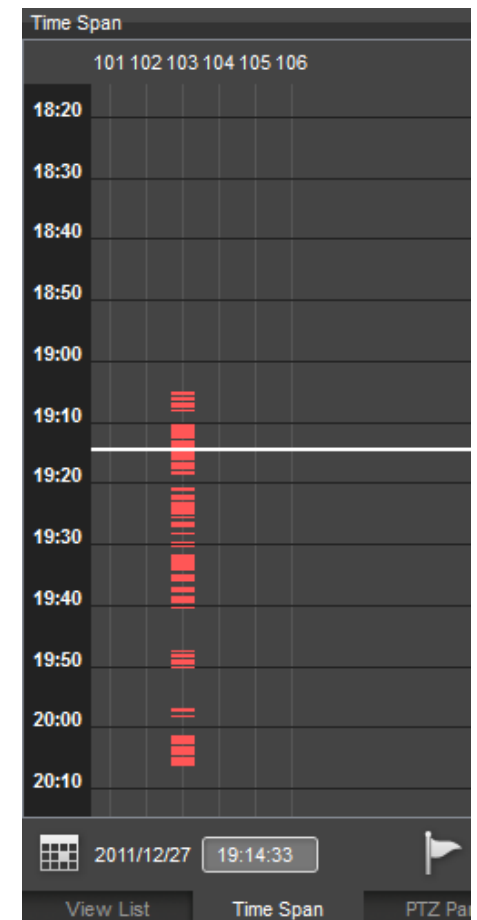
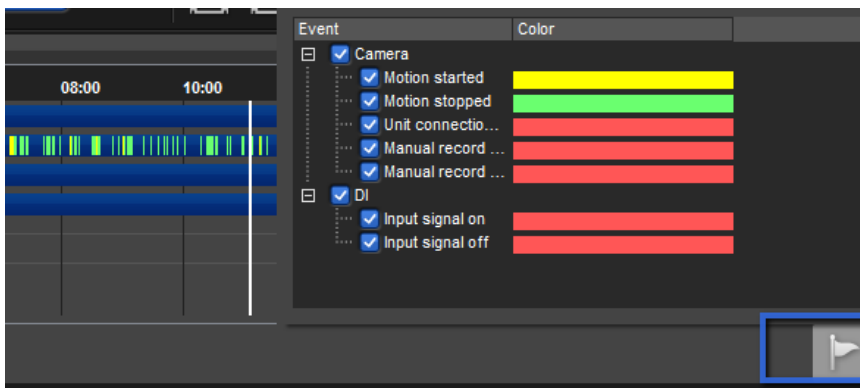
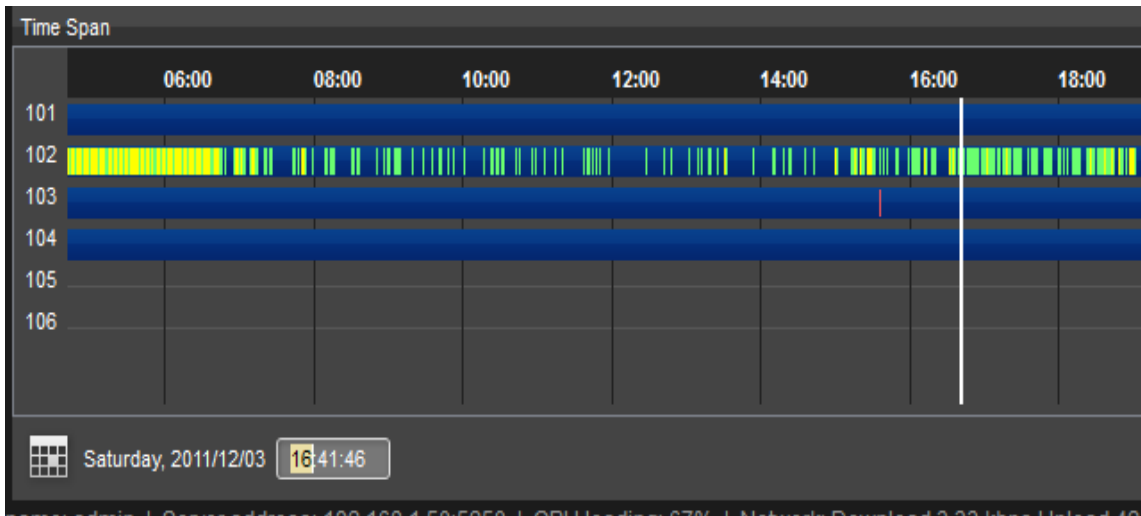
The screenshot shows a window titled 'Event List' with a close button (X) in the top right corner. The window contains a table with four columns: 'Time', 'Event name', 'Server', and 'Source'. The table lists 15 events, all occurring on 2012/07/30 at 12:00. The events alternate between 'Motion started' and 'Motion stopped'. The 'Server' column consistently shows 'Demo\_Machine'. The 'Source' column shows 'PTZ' for the first 12 events and 'FAE-ACTi-Eason' for the last 3 events. The table has a scrollbar on the right side.

Time	Event name	Server	Source
2012/07/30 12:0...	Motion started	Demo_Machine	PTZ
2012/07/30 12:0...	Motion stopped	Demo_Machine	PTZ
2012/07/30 12:0...	Motion started	Demo_Machine	PTZ
2012/07/30 12:0...	Motion stopped	Demo_Machine	PTZ
2012/07/30 12:0...	Motion started	Demo_Machine	PTZ
2012/07/30 12:0...	Motion stopped	Demo_Machine	PTZ
2012/07/30 12:0...	Motion started	Demo_Machine	PTZ
2012/07/30 12:0...	Motion stopped	Demo_Machine	PTZ
2012/07/30 12:0...	Motion started	Demo_Machine	PTZ
2012/07/30 12:0...	Motion stopped	Demo_Machine	PTZ
2012/07/30 12:0...	Motion started	Demo_Machine	PTZ
2012/07/30 12:0...	Motion stopped	Demo_Machine	FAE-ACTi-Eason
2012/07/30 12:0...	Motion stopped	Demo_Machine	FAE-ACTi-Eason
2012/07/30 12:0...	Motion started	Demo_Machine	FAE-ACTi-Eason
2012/07/30 12:0...	Motion started	Demo_Machine	FAE-ACTi-Eason
2012/07/30 12:0...	Motion stopped	Demo_Machine	FAE-ACTi-Eason



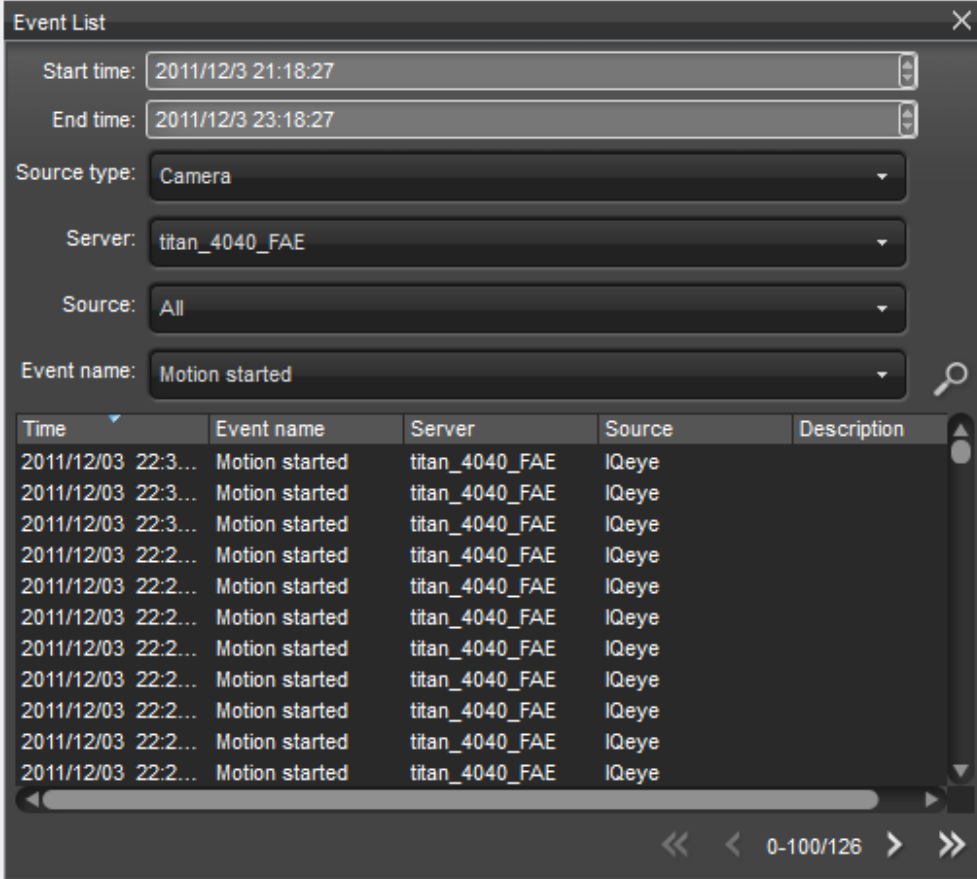
# Wiedergabe – Zeitspanne

- Unterschiedliche Farben für verschiedene Ereignisse wählbar.



# Wiedergabe – Ereignisliste

- Ereignissuche über den ganzen Server
- Durch Doppelklick zur Live-Ansicht



The screenshot shows a software window titled "Event List" with a close button (X) in the top right corner. The window contains several filter fields and a table of events.

Filter fields:

- Start time: 2011/12/3 21:18:27
- End time: 2011/12/3 23:18:27
- Source type: Camera
- Server: titan\_4040\_FAE
- Source: All
- Event name: Motion started

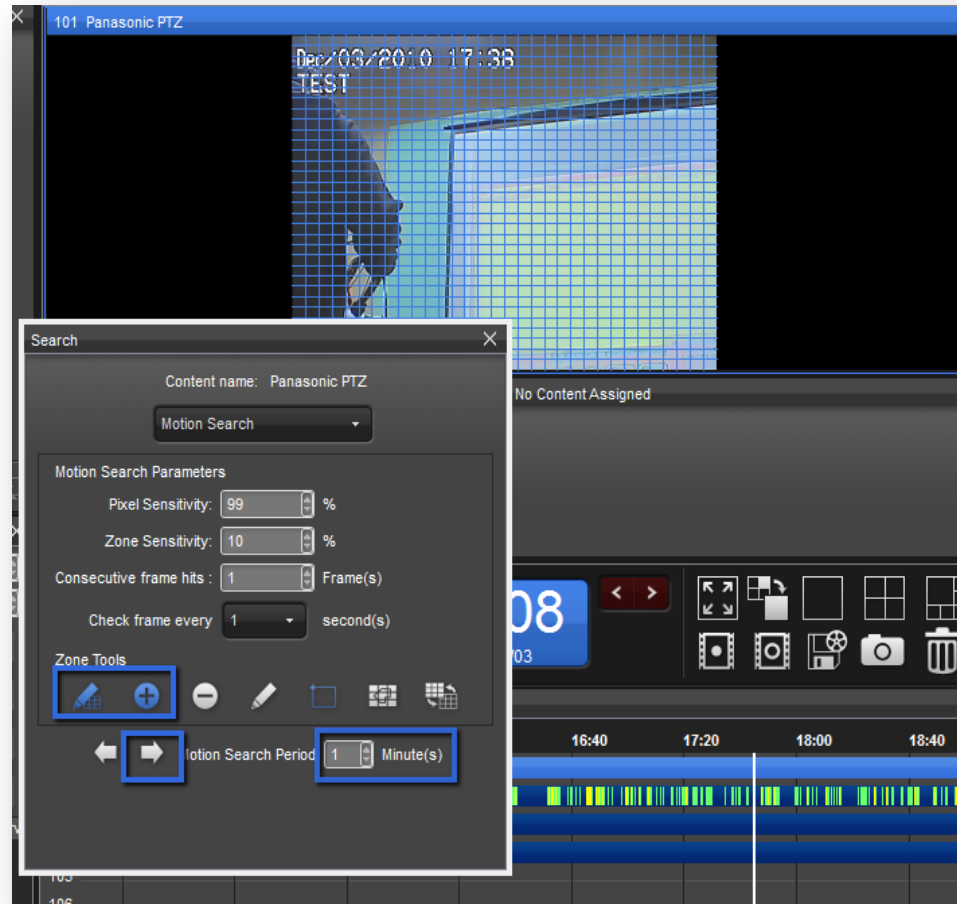
Table of events:

Time	Event name	Server	Source	Description
2011/12/03 22:3...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:3...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:3...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:2...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:2...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:2...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:2...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:2...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:2...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:2...	Motion started	titan_4040_FAE	IQeye	
2011/12/03 22:2...	Motion started	titan_4040_FAE	IQeye	

At the bottom of the window, there are navigation arrows and a page indicator showing "0-100/126".

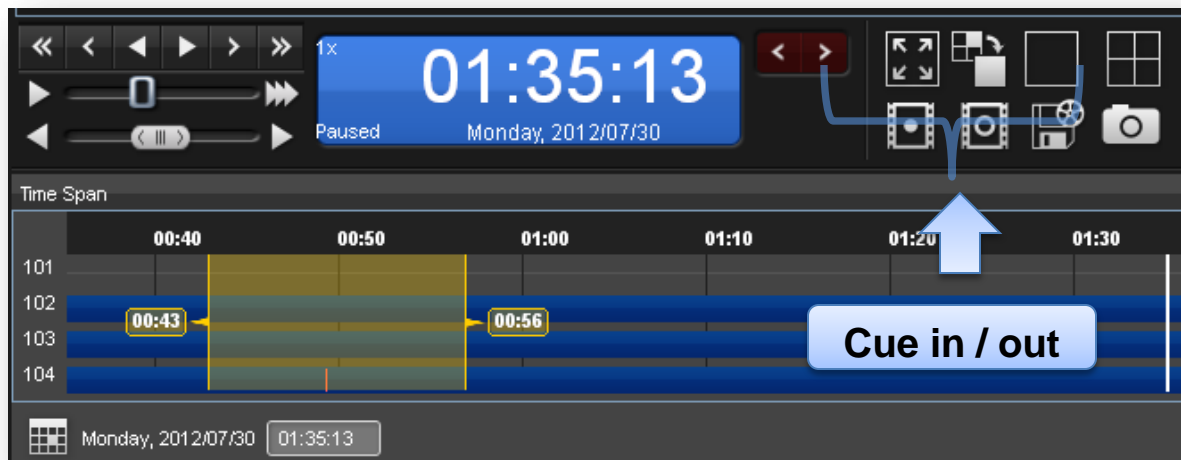
# Wiedergabe – Bewegungssuche

- Ereignissuche über den ganzen Server
- Durch Doppelklick zur Live-Ansicht



# Wiedergabe – Video exportieren

- Wählen Sie den gewünschten Kamerakanal
- Videos exportieren mittels Cue In & Cue Out
- Verschiedene Videoformate (abspielbar mit beliebigem Windows Player)

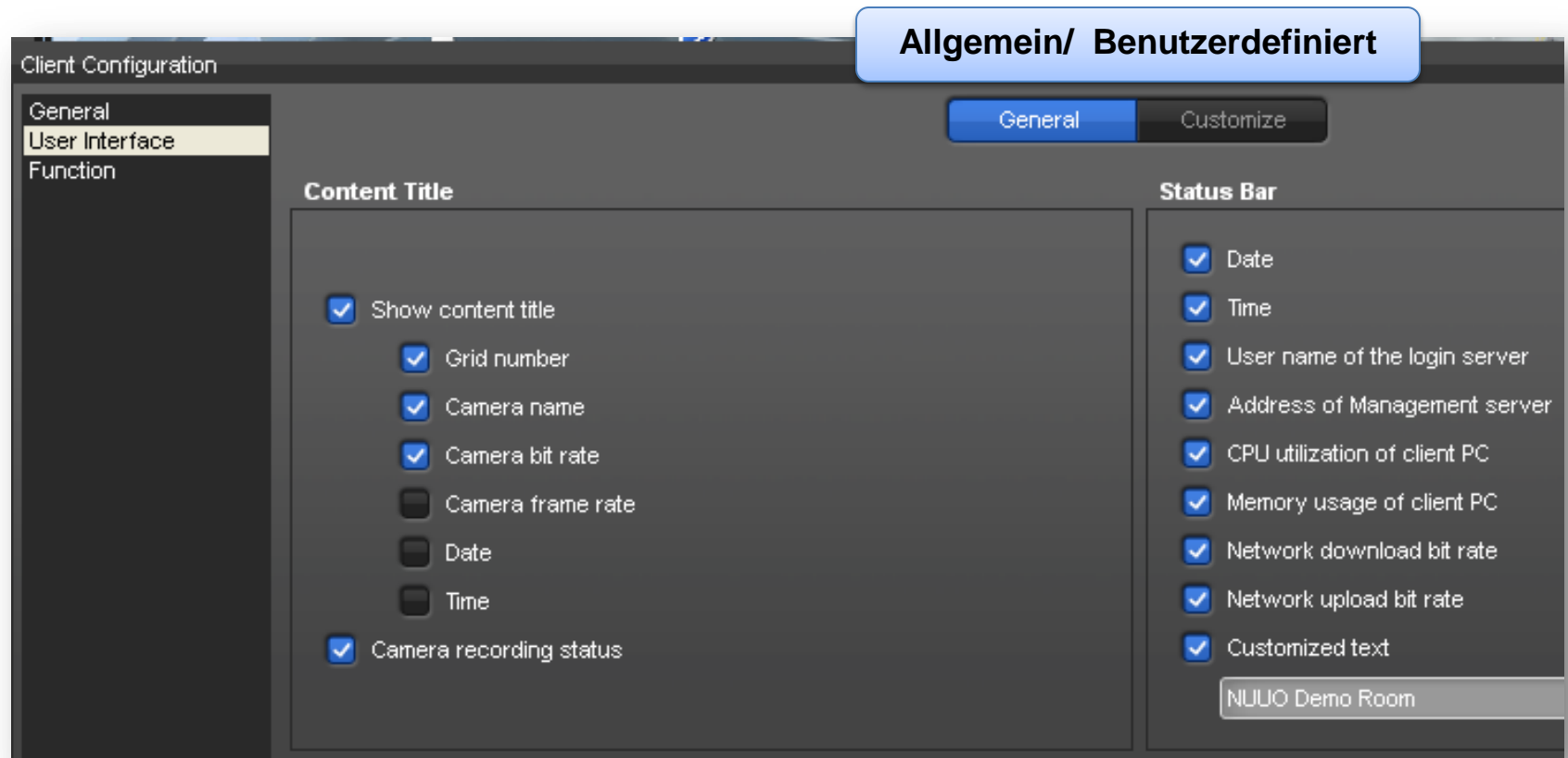


**Auto Login**

Bevorzugte Ansicht

## Zeitzone

# Client Configuration – Benutzer-Interface



# Client Configuration – Funktionen

Live View

Playback

Snapshot

Audio

Snapshot

☐ Manual print or save Snapshot image

☒ Automatically save Snapshot images

Save image location: C:\Documents and Settings\Eason\Desktop ...

Save as type: .bmp

☒ Save with Content Title

☒ Save with Digital Zoom

☐ Open file after save

Audio

☒ Enable audio on selected channel

Instant Playback

Sofortige Wiedergabe

Start playing from previous N seconds (15~300): 60

Alarm

Audio Alarm

Event List

Ereignisliste

Enable Audio Notification

Audio file:

☒ Default

☒ User defined audio file:

C:\Program Files\NUUO\SCB\_IP\wave\Dogbark.wav ...

Life cycle:

☒ Stop audio notification when event ends.

☐ Stop playing sound after 3 second(s)

Event List display options:

☒ Max. events under Event List: 100

☐ Show events under 10 minute(s)


Video display mode:

☒ Popup window

☐ First empty grid or Grid 1 if no empty grid

Joystick

Settings



# Client Configuration – Funktion (Wiedergabe)

Live View

Playback

Snapshot

Audio

☒ Manual print or save Snapshot image

☐ Automatically save Snapshot images

Save image location:

Save as type:

☒ Save with Content Title

☒ Save with Digital Zoom

☐ Open file after save

☒ Enable audio on selected channel

Playback Skip Interval

Intervall überspringen

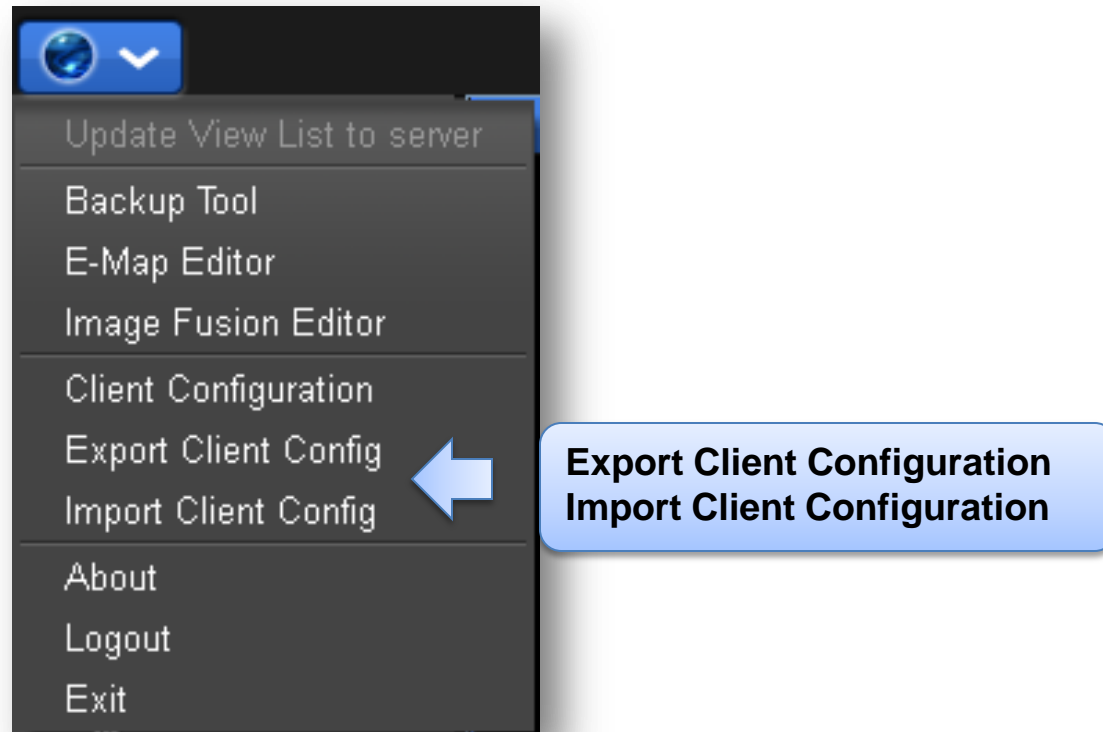
Skip Forward interval:  second(s)

Skip Backward interval:  second(s)



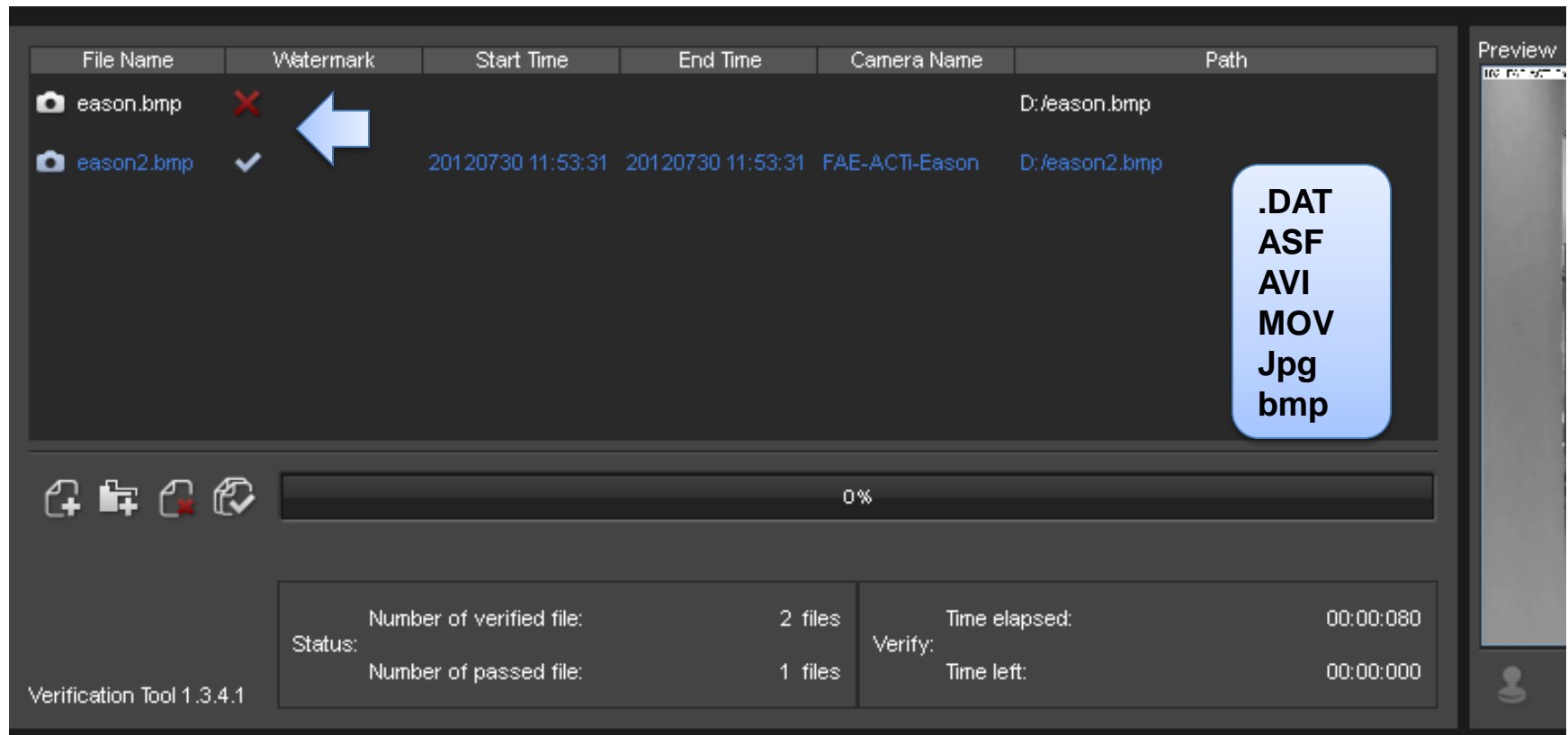
# Export/Import Client Configuration

- Eingestellte Konfigurationen können exportiert bzw. importiert werden.



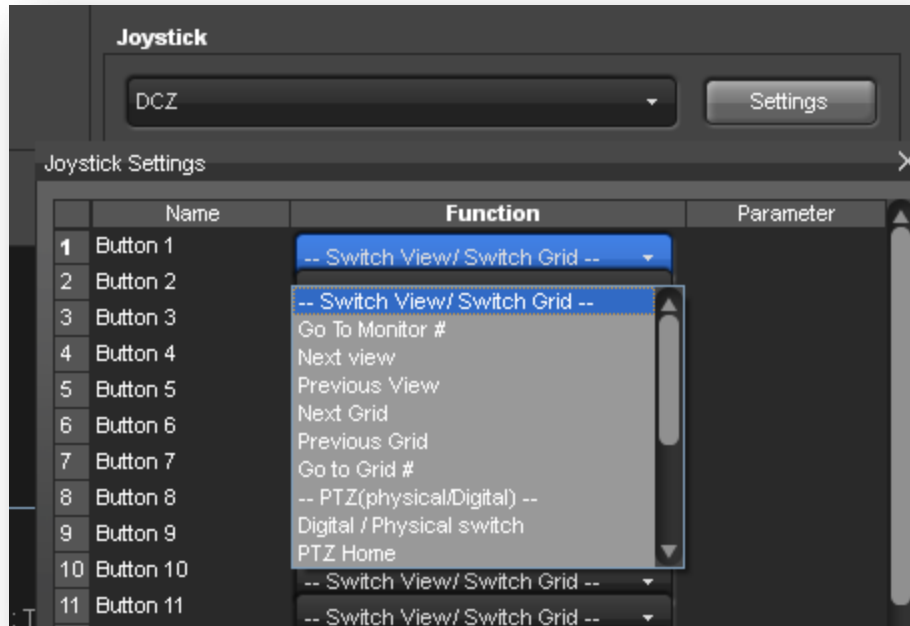
# Verification Tool

- Überprüfung der ausgelagerten Datei auf Echtheit. Unterstützte Formate:



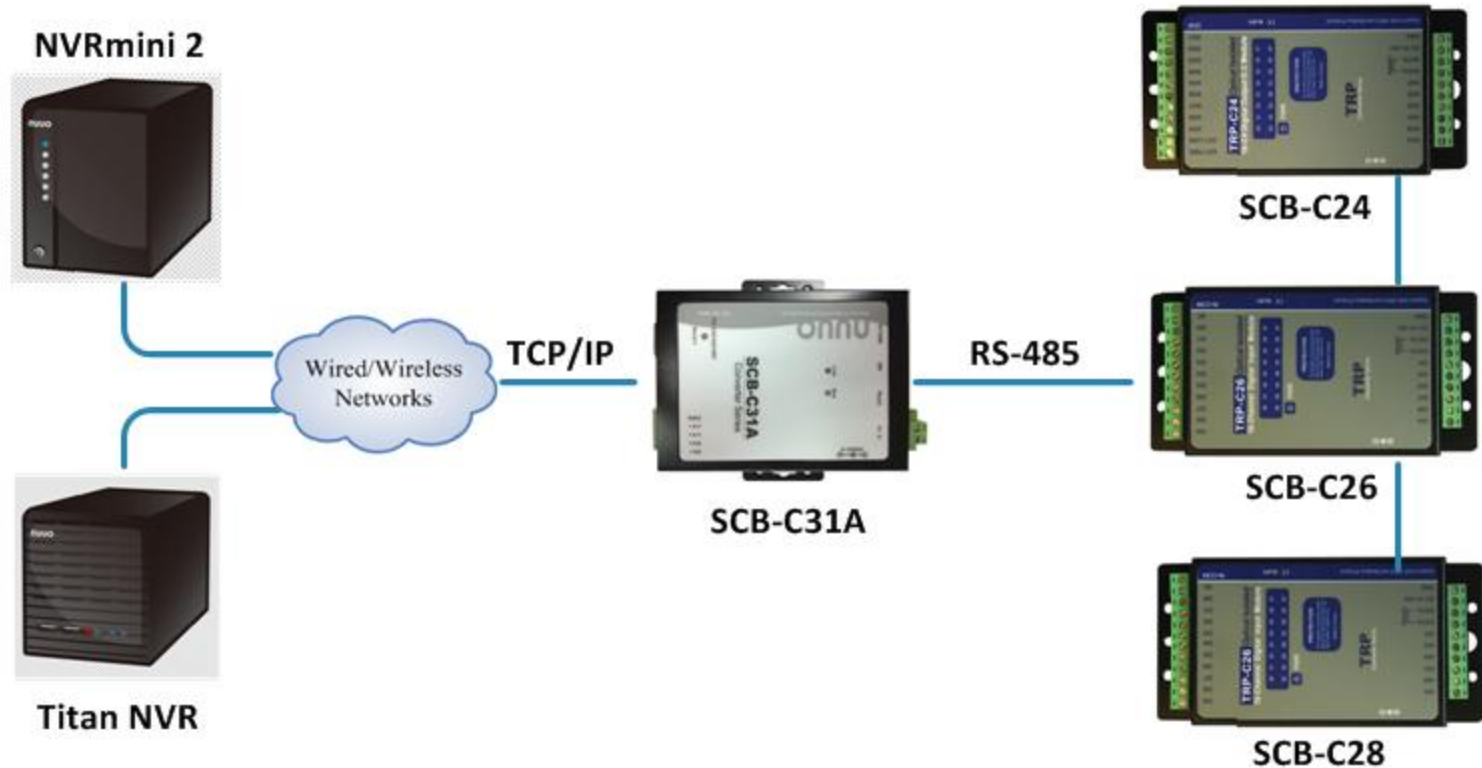
# Joystick

- Was kann mit dem Joystick gesteuert werden?



- Go to Monitor #
- Next view
- Previous view
- Next Grid
- Previous Grid
- Go to Grid #
- Digital PTZ
- Digital / Physical switch
- PTZ home
- Zoom in
- Zoom out
- Go to preset #
- Edit view
- Delete content

# I/O Lösung



# I/O Lösung

- Suchen Sie nach der IP-Adresse des SCB-C31A
- RS-485

The screenshot shows the SCB Manager application window. The main window has a menu bar (Server, View, Exit, Help) and a toolbar with icons for Firmware Upgrade, Virtual COM Configurat..., Searching Server, Uninstall Virtual COM, Monitor Port Status, and Install Virtual COM. Below the toolbar is a table listing servers:

Server name	IP address	Protocol	Port	COM name	Status
SCB-C31A	192.168.1.123	TCP	4000	Not mapped	Not connected
SCB-C31A	192.168.1.78	TCP	4000	Not mapped	Not connected

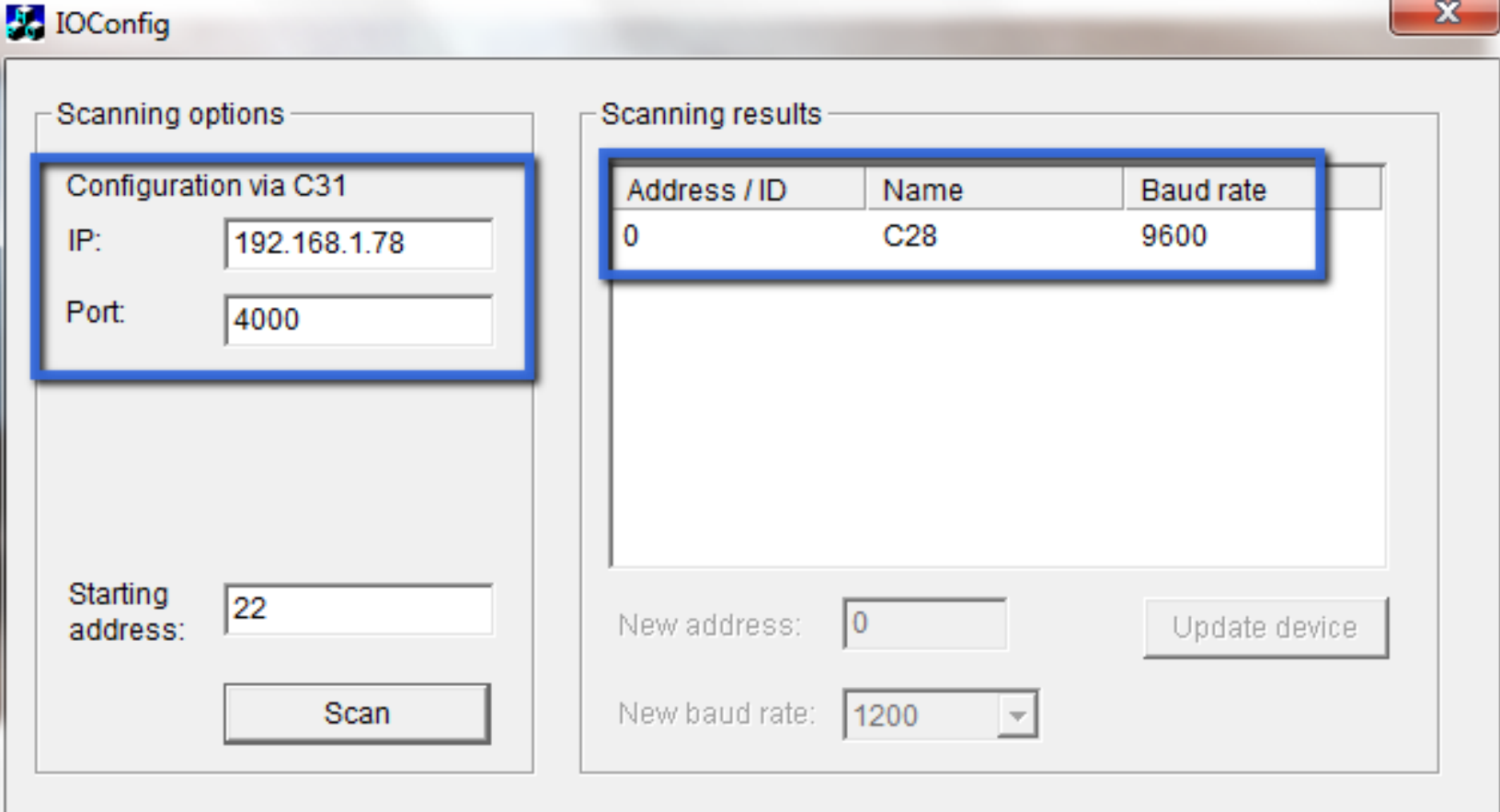
Below the table is a configuration dialog box. The dialog has several sections:

- Netmask: 255.255.255.0
- Gateway: 192.168.1.1
- MAC address: 00:0B:B4:81:18:BF
- Version & Date: 1.8.32 & 082411
- Link status: 100/Full Duplex
- Hardware ID: PP-1005-C
- Protocol: TCP (highlighted with a blue arrow)
- Serial timeout: 0 (0-65535 sec)
- TCP alive timeout: 0 (0-255 min)
- Connection mode: Server
- Delimiter HEX 1: 00
- Delimiter HEX 2: 00
- Force transmit: 0 x100ms (0-65535)
- Port status: Not Connected
- TCP/UDP port: 4000
- Serial port mode: RS485H (highlighted with a blue box)
- Connection at: Power up
- Maximum connection: 8
- Remote IP address: 255.255.255.255

At the bottom of the dialog are buttons for Update, Cancel, and a prominent blue button labeled "Serial port mode".

# I/O Lösung

- Überprüfung der Verbindung von SCB-C28 und ID



The IOConfig window is divided into two main sections: "Scanning options" and "Scanning results".

**Scanning options:**

- Configuration via C31:** A sub-section containing two input fields: "IP:" with the value "192.168.1.78" and "Port:" with the value "4000".
- Starting address:** An input field with the value "22".
- Scan:** A button located below the starting address field.

**Scanning results:**

- Table:** A table with three columns: "Address / ID", "Name", and "Baud rate". It contains one row of data: Address / ID: 0, Name: C28, Baud rate: 9600.
- New address:** An input field with the value "0".
- New baud rate:** A dropdown menu with the value "1200".
- Update device:** A button located to the right of the new address and baud rate fields.

# I/O Lösung

- Konfiguration des Gerätetyps und der IP-Adresse des SCB-C31A

**NT-4040(R)**

- > IP Camera
- > Recording & Event
- > RAID & File System
- ▼ I/O Settings
  - ▶ I/O Settings
  - > Network Setup
  - > Management
  - > System

Firmware Version: 1.0.0  
Free Capacity: 4.1 GB

## I/O Settings

I/O Box Settings | I/O Pin Settings

### I/O Box Settings

Device No	51001				
Device Name	Team 2 - Titan + I/O				
Device Type	SCB-C31 + SCB-C28 ▼				
IP Address	192.168.1.88	Port	4000		
ID	Addr:001 ▼				

Create Modify

### I/O Box List

No.	Name	Type	IP Addr.	Port	ID
51001	Team 2 - Titan +	SCB-C28	192.168.1.88	4000	Addr:001

# I/O Lösung

- Konfiguration des I/O Ereignisses.

The screenshot displays the NUUO NT-4040(R) web interface. The left sidebar contains a navigation menu with the following items: IP Camera, Recording & Event (expanded), Recording Settings, Event & Action Management (selected), E-Mail, RAID & File System, I/O Settings, Network Setup, Management, and System. The main content area is titled 'Event & Action Management' and features a sub-tab 'Event & Action'. Below this, there are buttons for '1-16', '17-32', '33-48', '49-64', 'I/O BOX' (highlighted), and 'System'. The interface is divided into two panels: 'Camera List' and 'Event & Action'. In the 'Camera List' panel, a tree view shows 'I/O Box 51001 (Team 2 - Titan)' expanded, with 'Reception' selected and checked. Below it are three unchecked options: 'Ground floor -', 'Second floor -', and 'Second floor -'. In the 'Event & Action' panel, there are 'Add', 'Del', and 'Configure' buttons. A table with two columns, 'Action' and 'Options', is shown. The 'Action' column has two entries: 'Output' and 'On Screen Display'. The 'Options' column for 'Output' lists three triggers: 'Output#0 on Zavio M511W', 'Output#0 on I/O Box 51001 (Team 2 - Titan)', and 'Output#2 on I/O Box 51001 (Team 2 - Titan)'. At the bottom of the main area, there are 'Save' and 'Reset' buttons, and a note: 'Before setting Motion from Camera, remember to enable "motion detection" function in camera web first.'

**NT-4040(R)**

- IP Camera
- Recording & Event
  - Recording Settings
  - Event & Action Management**
  - E-Mail
- RAID & File System
- I/O Settings
- Network Setup
- Management
- System

Firmware Version: 1.0.0  
Free Capacity: 4.1 GB

## Event & Action Management

Event & Action

1-16 17-32 33-48 49-64 **I/O BOX** System

**Camera List**

- Configure
- I/O Box 51001 (Team 2 - Titan )
  - ☒ Reception
  - ☐ Ground floor -
  - ☐ Second floor -
  - ☐ Second floor -

**Event & Action**

Add Del Configure

Action	Options
Output	Trigger: Output#0 on Zavio M511W Output#0 on I/O Box 51001 (Team 2 - Titan) Output#2 on I/O Box 51001 (Team 2 - Titan)
On Screen Display	

Save Reset

Before setting Motion from Camera, remember to enable "motion detection" function in camera web first.



# Troubleshooting



The Intelligent Surveillance Solution

# Zeitzone

- Falls die Aufnahmezeit nicht korrekt sein sollte, überprüfen Sie die eingestellte Zeitzone beim Server und Client.

The screenshot displays the NT-4040(R) web interface. On the left is a sidebar menu with options: IP Camera, Recording & Event, RAID & File System, I/O Settings, Network Setup, Management, System (expanded), System Information, System Settings, Upgrade, Date / Time (highlighted), Local Display, and Reboot / Shutdown. The main area is titled 'Date / Time' and contains a 'Setup' tab. Below this, the 'Date / Time' section shows fields for Time Zone (set to '(GMT+08:00) Beijing, Hong Kong, Kuala Lumpur, Perth, Singapore, Taipei'), Year (2012), Month (7), Day (30), and Time (13:37). There is a checkbox for 'Adjust' which is checked. A 'Time Zone' dialog box is open in the foreground, showing two options: 'Use client's time zone:' (unselected) and 'Select a different time zone:' (selected). The 'Select a different time zone:' option shows 'UTC+08:00' as the current selected time. Two blue callout boxes are present: 'Client' Zeitzone' pointing to the 'Use client's time zone:' option, and 'Verschiedene Zeitzone' pointing to the 'Select a different time zone:' option.

**NT-4040(R)**

- IP Camera
- Recording & Event
- RAID & File System
- I/O Settings
- Network Setup
- Management
- System
  - System Information
  - System Settings
  - Upgrade
  - Date / Time**
  - Local Display
  - Reboot / Shutdown

**Date / Time**

Setup

**Date / Time**

Time Zone: (GMT+08:00) Beijing, Hong Kong, Kuala Lumpur, Perth, Singapore, Taipei,

Year: 2012

Month: 7

Day: 30

Time: 13:37

☒ Adjust

Start time

**Time Zone**

☐ Use client's time zone:

Current client's time:  
2012/07/30 13:37:24

☒ Select a different time zone:

UTC+08:00

Current selected time:  
2012/07/30 13:37:24

☐ Manually adjust clock for Daylight Saving Time by 0 hour(s)

**Client' Zeitzone**

**Verschiedene Zeitzone**

# iViewer

- Stellen Sie sicher, dass die IP-Kamera angeschlossen ist
- Aktivieren Sie den zweiten Stream der Kamera
- Aktivieren Sie den Live View Port

中華電信 10:43 44%

Cancel **Name Eason** Save

Eason

Server Address

190.86.175.165

Server Port

5250

Username

admin

Password

•••••

**Server port:  
5250**

**NT-4040(R)**

- > IP Camera
- > Recording & Event
- > RAID & File System
- > I/O Settings
- Network Setup
  - > Network Setup
  - > Network Service**
  - > Main Server / Sub Server

**Network Service**

Network Service Web Server

**Streaming Server**

Port 5250

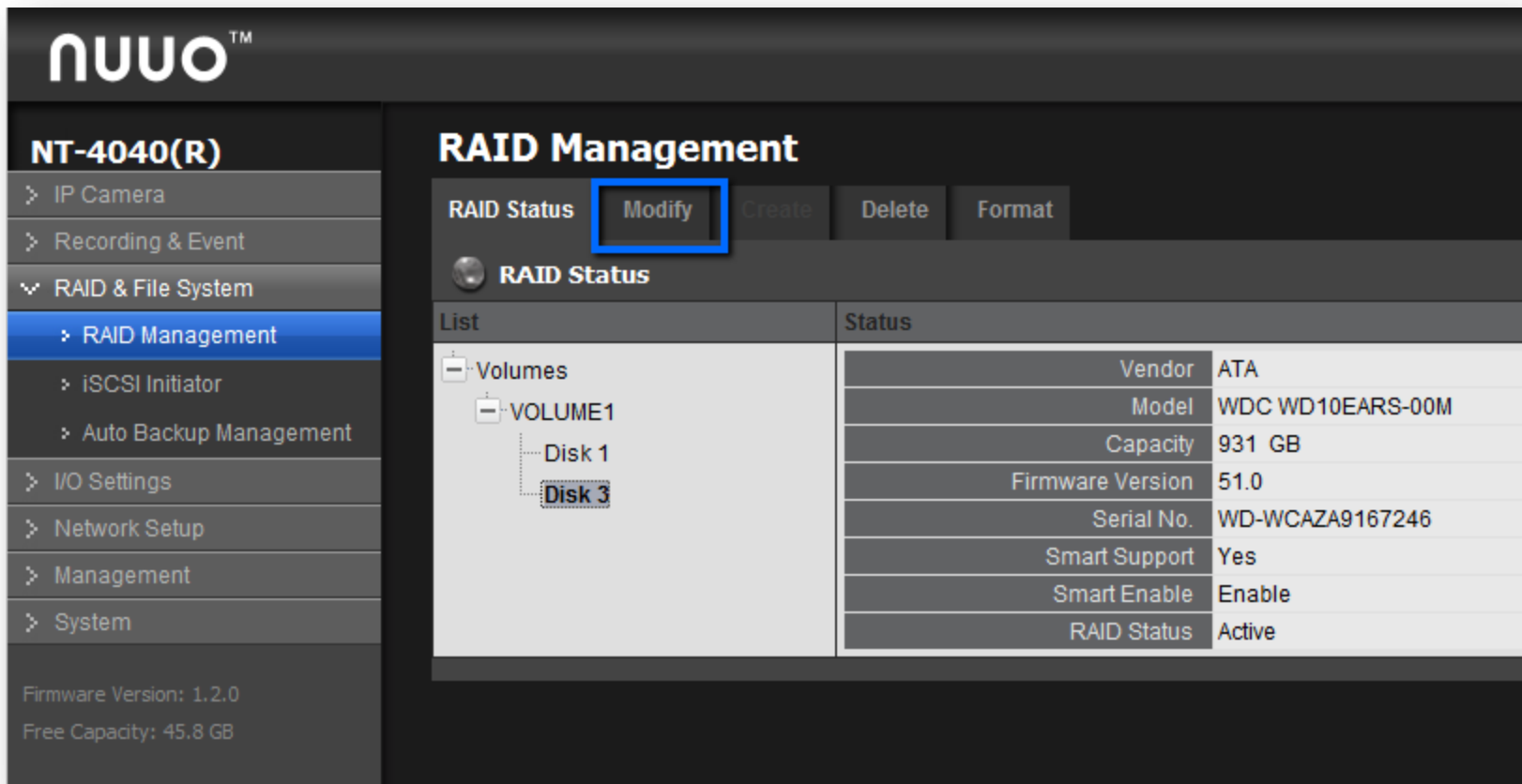
Live View Maximum Connections 256

**Black/White List**

White List ☐ Enable

# Festplattenaustausch

- Gehen Sie zum RAID Management und wählen Sie “Modify”.



**NUUO™**

**NT-4040(R)**

- IP Camera
- Recording & Event
- ▼ RAID & File System
  - **RAID Management**
  - iSCSI Initiator
  - Auto Backup Management
- I/O Settings
- Network Setup
- Management
- System

Firmware Version: 1.2.0  
Free Capacity: 45.8 GB

### RAID Management

RAID Status **Modify** Create Delete Format

**RAID Status**

List	Status
Volumes	
VOLUME1	
Disk 1	
Disk 3	

Vendor	ATA
Model	WDC WD10EARS-00M
Capacity	931 GB
Firmware Version	51.0
Serial No.	WD-WCAZA9167246
Smart Support	Yes
Smart Enable	Enable
RAID Status	Active

# Festplattenaustausch

- Wählen Sie die Festplatte, die ausgetauscht werden soll.

The screenshot shows the NUUO RAID Management interface. On the left is a sidebar with a menu where 'RAID Management' is selected. The main area has tabs for 'RAID Status', 'Modify', 'Create', 'Delete', and 'Format', with 'Modify' being the active tab. Below the tabs is a 'RAID List' table showing 'VOLUME1' with RAID Level 'RAID1' and Capacity '465.76 GB'. Below this is a 'Modify Volume' section with a table showing details for 'VOLUME1'. At the bottom of this section, there are radio buttons for 'Remove Disk' (selected) and 'Add Disk'. The 'Remove Disk' option is highlighted with a blue box, and a blue callout bubble points to it with the text 'Festplatte entfernen'. The 'Add Disk' option shows two disks: 'Disk 1: 465 GB WDC WD5000AADS-0 Active' and 'Disk 3: 931 GB WDC WD10EARS-00M Active'.

**NT-4040(R)**

- IP Camera
- Recording & Event
- RAID & File System
  - RAID Management**
  - iSCSI Initiator
  - Auto Backup Management
- I/O Settings
- Network Setup
- Management
- System

Firmware Version: 1.2.0  
Free Capacity: 45.8 GB

## RAID Management

RAID Status **Modify** Create Delete Format

### RAID List

Volume	RAID Level	RAID Capacity	RAID Status	Details
VOLUME1	RAID1	465.76 GB	Functional	Details

### Modify Volume

RAID Name	VOLUME1
RAID Level	RAID1
Capacity	465.76 GB
RAID Status	Functional

☒ Remove Disk ☐ Add Disk

☐ Disk 1: 465 GB WDC WD5000AADS-0 Active  
☐ Disk 3: 931 GB WDC WD10EARS-00M Active

Modify Reset

**Festplatte entfernen**

# Festplattenaustausch

- Bestätigen Sie die Auswahl der Festplatte und klicken Sie auf “Yes, modify it”.

**Modify Volume**

**Are you sure to modify this volume?**

RAID Name	VOLUME1		
RAID Level	RAID1		
Capacity	465.76 GB		
RAID Status	Functional		
Assigned Disks	Disk 1	465 GB	WDC WD5000AADS-0
	Disk 3	931 GB	WDC WD10EARS-00M

**Action for modifying volume:**

Remove Disk

Disk 1 465 GB WDC WD5000AADS-0 01.0 WD-WCAV90809474 Active

☒ Yes, I want to modify this volume.

Yes, modify it

Cancel

# Festplattenaustausch

- Der “RAID Level” wird als “Critical” angezeigt.
- Setzen Sie die neue Festplatte ein.

The screenshot displays the NUUO RAID Management interface. On the left, a sidebar lists various system settings, with 'RAID Management' selected. The main area is titled 'RAID Management' and features a 'RAID Status' tab. A blue callout box highlights the text 'RAID Status: Critical'. Below this, a table lists RAID details for 'VOLUME1'.

List	Status
Volumes	
VOLUME1	
Disk 3	
Free Disks	
Disk 2	

RAID Name	VOLUME1
RAID Level	RAID1
RAID Status	Critical
Total Capacity	465.76 GB (476938 MB)
Free Capacity	45.84 GB (46948 MB)
Used Capacity	412.6 GB (422504 MB)
Usage	<div><div></div></div> 90%
Update Time	2012年3月30日 下午 07:14:27
Total Devices	2
Active Devices	1
Failed Devices	0
Spare Devices	0
Format Progress	
Recovery Progress	

NT-4040(R)

- > IP Camera
- > Recording & Event
- > RAID & File System
  - > RAID Management
  - > iSCSI Initiator
  - > Auto Backup Management
- > I/O Settings
- > Network Setup
- > Management
- > System

Firmware Version: 1.2.0  
Free Capacity: 952.6 GB

# Festplattenaustausch

- Gehen Sie zu “RAID Management” und wählen Sie “Add Disk”.

The screenshot shows the NUUO RAID Management web interface. On the left is a sidebar with a menu where 'RAID Management' is selected. The main area has tabs for 'RAID Status', 'Modify', 'Create', 'Delete', and 'Format', with 'Modify' being the active tab. It contains three sections: 'RAID List' with a table showing 'VOLUME1' in 'RAID1' status; 'Free Disk List' with a table showing 'Disk 2' (WDC WD10EARS-00M, 931 GB); and 'Modify Volume' with a form showing current RAID details. In the 'Modify Volume' section, the 'Actions' area has two radio buttons: 'Remove Disk' and 'Add Disk'. The 'Add Disk' option is selected and highlighted with a blue box, and the available disk 'Disk 2: 931 GB WDC WD10EARS-00M' is listed next to it. A blue 'Add Disk' button is also visible on the left. At the bottom, 'Modify' and 'Reset' buttons are present, with 'Modify' also highlighted by a blue box.

**NUUO™**

**NT-4040(R)**

- IP Camera
- Recording & Event
- RAID & File System
  - RAID Management**
  - iSCSI Initiator
  - Auto Backup Management
- I/O Settings
- Network Setup
- Management
- System

Firmware Version: 1.2.0  
Free Capacity: 952.6 GB

### RAID Management

RAID Status **Modify** Create Delete Format

#### RAID List

Volume	RAID Level	RAID Capacity	RAID Status	Details
VOLUME1	RAID1	465.76 GB	Critical	Details

#### Free Disk List

Disk Name	Model	Capacity	Details
Disk 2	WDC WD10EARS-00M	931 GB	Details

#### Modify Volume

RAID Name	VOLUME1
RAID Level	RAID1
Capacity	465.76 GB
RAID Status	Critical

**Add Disk**

Actions

☒ Add Disk ☐ Remove Disk

☒ Disk 2: 931 GB WDC WD10EARS-00M

Modify Reset



# Festplattenaustausch

- Klicken Sie auf “Yes, modify it”.

**Modify Volume**

**Are you sure to modify this volume?**

RAID Name	VOLUME1		
RAID Level	RAID1		
Capacity	465.76 GB		
RAID Status	Critical		
Assigned Disks	Disk 3	931 GB	WDC WD10EARS-00M

**Action for modifying volume:**

Add Disk

Disk 2 931 GB WDC WD10EARS-00M 51.0 WD-WCAZA8991003

☒ Yes, I want to modify this volume.

Yes, modify it

Cancel

# Festplatten austausch

- Gehen Sie zu “RAID Management” und überprüfen Sie, dass der RAID Status als “Functional” angezeigt wird.
- Es muss freie Kapazität angezeigt werden.

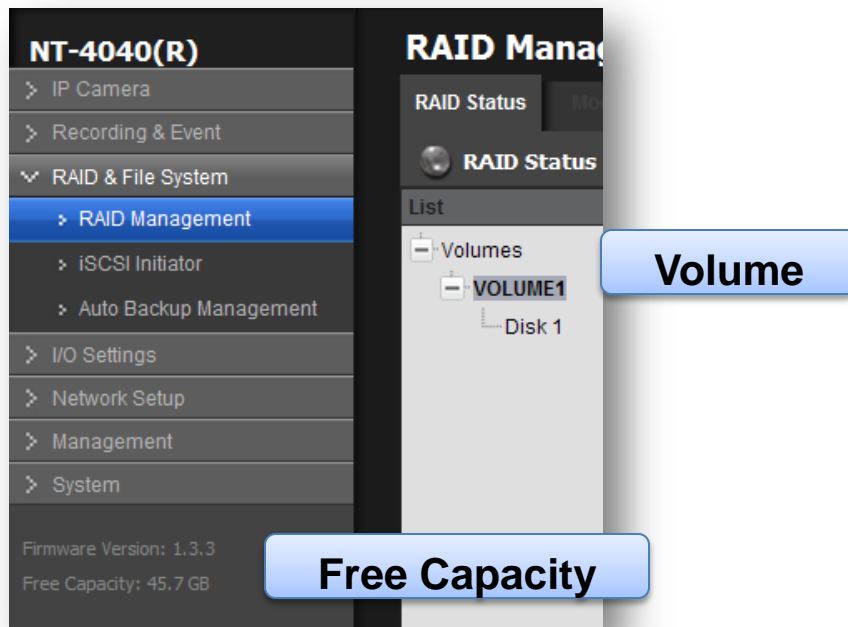
The screenshot displays the NUUO RAID Management interface. On the left, a sidebar shows the navigation menu with 'RAID Management' selected. The main area is titled 'RAID Management' and features a 'RAID Status' button highlighted in blue, indicating the current status is 'Functional'. Below this, a 'List' table shows the RAID configuration for 'VOLUME1', which is composed of 'Disk 3' and 'Disk 2'. The 'Status' column for 'VOLUME1' is highlighted with a blue box, showing 'RAID Name: VOLUME1', 'RAID Level: RAID1', and 'RAID Status: Functional'. To the right of the table, a detailed status summary is provided, including total and free capacity, usage percentage (90%), update time, and device counts. The 'Usage' bar is red, indicating high utilization.

List	Status
Volumes	
VOLUME1	RAID Name: VOLUME1 RAID Level: RAID1 RAID Status: Functional
Disk 3	
Disk 2	


Total Capacity	465.76 GB (476938 MB)
Free Capacity	45.84 GB (46948 MB)
Used Capacity	412.6 GB (422504 MB)
Usage	90%
Update Time	2012年3月30日 下午 07:16:54
Total Devices	2
Active Devices	1
Failed Devices	0
Spare Devices	1
Format Progress	
Recovery Progress	0%

# Keine Aufzeichnung

- Gehen Sie zu “Camera Status”. Hier muss “connected” stehen.
- Gehen Sie zu “Recording Settings”. Hier muss entweder “Always Recording” oder “Recording by Schedule” stehen.
- Gehen Sie zu “RAID Management”. Als Status muss “Volume” angezeigt werden.
- Es muss “Free Capacity” unten links angezeigt werden.



# IP-Kamera Troubleshooting

- 
- Überprüfen Sie, ob das Kameramodell und die Firmware von NUUO unterstützt werden
  - Prüfen Sie, ob der Fehler auch beim Zugriff über das Kamera-Webinterface besteht
  - Ändern Sie das Administrator Passwort um sicher zu stellen, dass niemand anderes die Kamera verbindet
  - Ändern Sie das Protokoll TCP/UDP/HTTP

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