

NUUO Titan

Netzwerkrekorder

Technisches Intensivtraining



Agenda

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

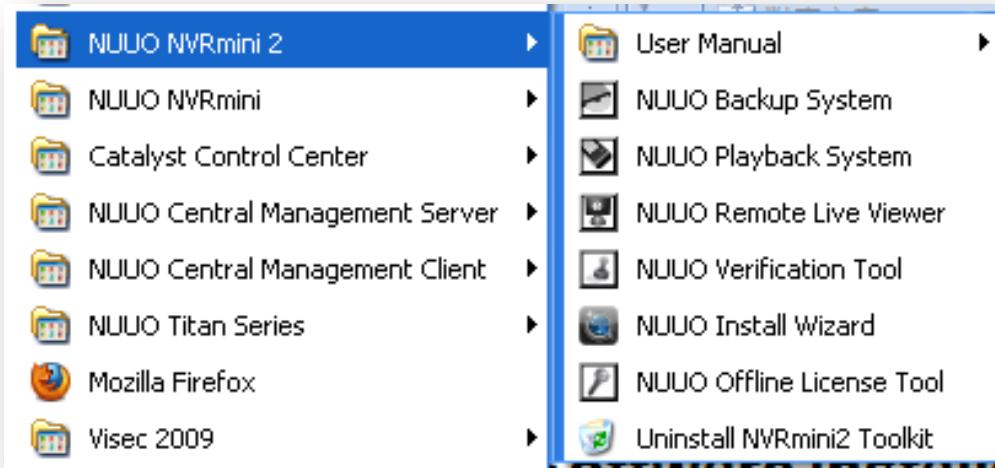
Installation



The Intelligent Surveillance Solution

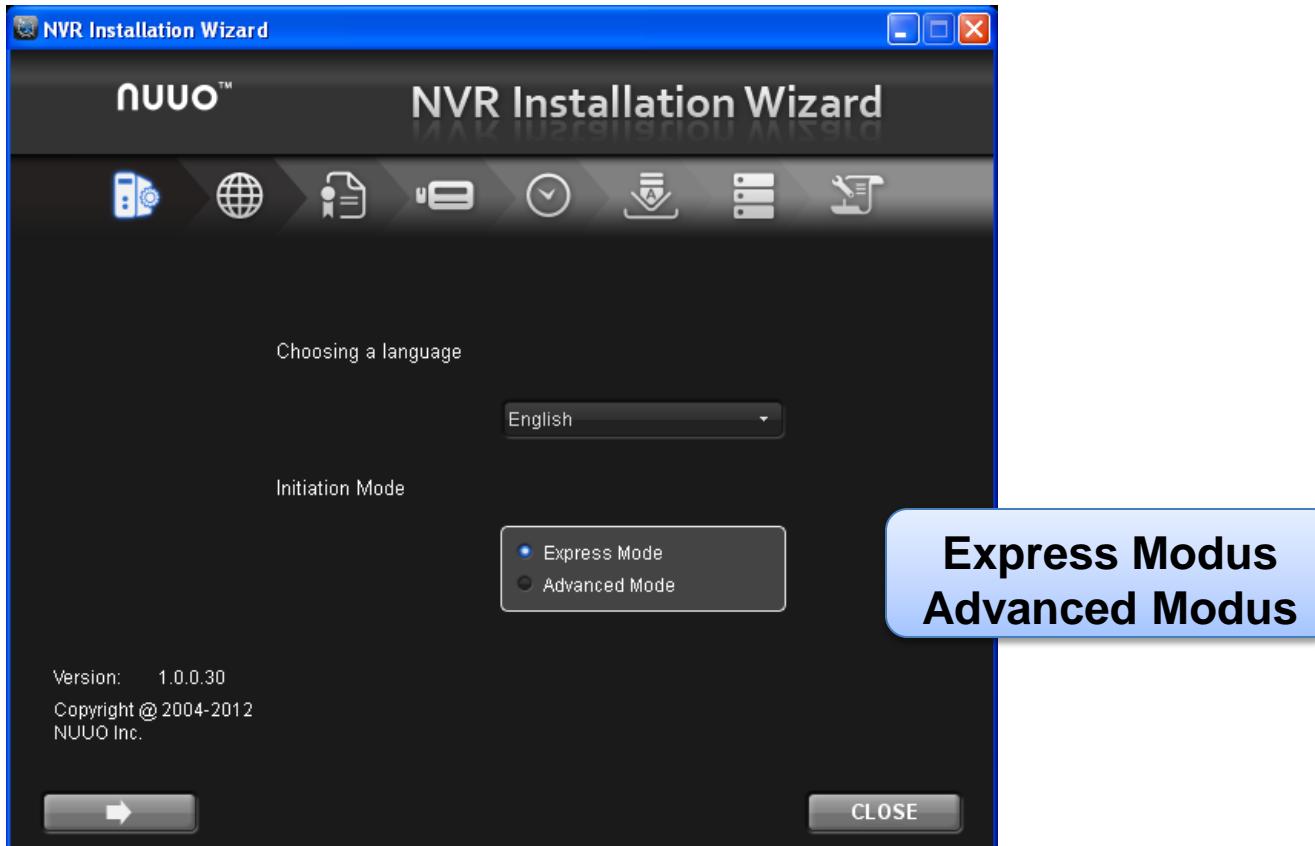
Software Installation

- Funktionen bei allen Anwendungen



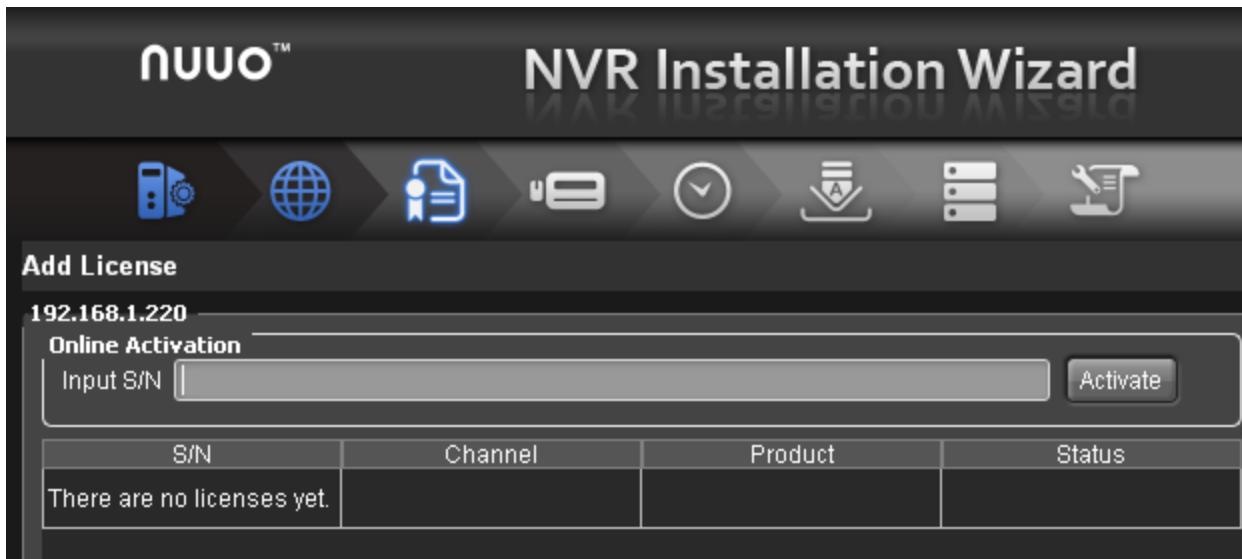
Install Wizard

- 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.



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



The Intelligent Surveillance Solution

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

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 |

NVR Version
Kamera Package Version

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

| | | |
|-------------|------------|-------|
| Low Profile | Format | MJPEG |
| | Frame Rate | 3~6 |
| | Resolution | CIF |

Minimum Profile

| | | |
|-----------------|------------|-------|
| Minimum Profile | Format | MJPEG |
| | Frame Rate | 1~2 |
| | Resolution | CIF |

Aufzeichnung



The Intelligent Surveillance Solution

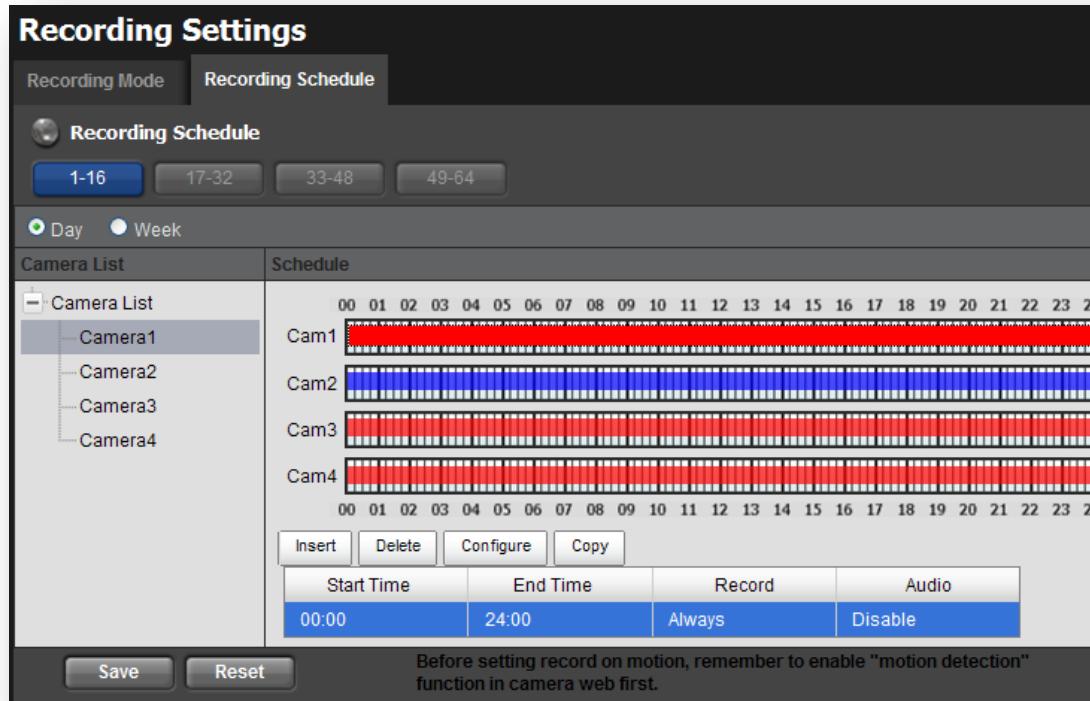
Aufzeichnung

- 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.



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 Address | smtp.gmail.com | Port | 465 | <input checked="" type="checkbox"/> use ssl |
| Sender | eason@nuuo.com | | | |
| Subject | Titan Test | | | |
| Body | NSS | | | |
| SMTP Authentication | <input checked="" type="checkbox"/> | | | |
| User Name | eason@nuuo.com | Password | ***** | |
| Save | Reset | 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 shows the NUUO Event & Action Management interface. On the left, a sidebar menu lists various system settings. The 'Event & Action Management' option is selected and highlighted in blue. The main panel title is 'Event & Action Management' with a sub-section 'Event & Action'. Below this are tabs for '1-16', '17-32', '33-48', '49-64', 'I/O BOX', and 'System'. The 'Event & Action' tab is active. The interface is divided into two main sections: 'Camera List' and 'Event & Action'. In the 'Camera List' section, there is a 'Configure' button and a tree view under 'PTZ' with options like 'Connect lost' and 'Motion from Camera', both of which have checkboxes checked. In the 'Event & Action' section, there are buttons for 'Add', 'Del', and 'Configure'. A table lists actions: 'E-Mail' is set to 'esaon', 'Output' is triggered by 'Output#0 on PTZ', and 'On Screen Display' is listed without a trigger.

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

RAID



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



The Intelligent Surveillance Solution

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 shows the 'Auto Backup Management' page of the NUUO NT-4040(R) web interface. The left sidebar menu includes options like IP Camera, Recording & Event, RAID & File System (selected), RAID Management, iSCSI Initiator, Auto Backup Management (selected), I/O Settings, Network Setup, Management, and System. The main content area has tabs for 'Backup Schedule' (selected) and 'Backup Server'. Under 'Backup Schedule', there is a section for 'Auto Backup' with an enable checkbox checked. It also shows 'Daily Backup Time' set to 08:00, 'Start Time' at 09:00, and 'End Time' at 18:00. A 'Camera' section allows selecting specific channels: Ch 1 (unchecked), Ch 2 (checked), Ch 9 (unchecked), Ch 10 (unchecked), Ch 17 (unchecked), and Ch 18 (unchecked). Below this are sections for 'Current Event Settings' with 'Unable to access FTP' and 'Backup unfinished' both set to 'Enable'. At the bottom are 'Save' and 'Reset' buttons.

Auto Backup

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

Auto Backup Management

Backup Schedule Backup Server

Backup Server

| | |
|-------------------------|-------------------|
| FTP Site | nuuo.dnsalias.com |
| FTP Port | 21 |
| Username | FAE |
| Password | ***** |
| Backup to Remote Folder | NSS |

Save **Reset** **Test FTP**



FTP Test erfolgreich

Netzwerk



The Intelligent Surveillance Solution

Netzwerk Service

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

The screenshot shows the configuration interface for the NUUO NT-4040(R). On the left, a sidebar menu lists various settings: IP Camera, Recording & Event, RAID & File System, I/O Settings, Network Setup (with Network Setup and Network Service sub-options), Main Server / Sub Server, Management, and System. The Network Service option is currently selected and highlighted in blue. At the bottom of the sidebar, it shows Firmware Version: 1.3.3 and Free Capacity: 45.7 GB.

The main panel is titled "Network Service" and contains two tabs: "Network Service" (selected) and "Web Server". Under the "Network Service" tab, there is a section for "Streaming Server" with fields for "Port" (set to 5250) and "Live View Maximum Connections" (set to 256). A large blue callout bubble highlights the "Streaming Port" field (5250). Below this is a section for "Black/White List" with "White List" and "Black List" checkboxes, both of which are currently disabled. There is also an "IP Range" input field with "Add to White List" and "Add to Black List" buttons. A table at the bottom shows an index and IP address.

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 | <input type="radio"/> Obtain an IP address automatically <input checked="" type="radio"/> 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 | <input type="radio"/> Obtain an IP address automatically <input checked="" type="radio"/> 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



The Intelligent Surveillance Solution

Command Chain

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

The screenshot shows the software interface for the NUUO NT-4040(R). On the left is a sidebar with the following menu items:

- > 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

The main window title is "Main Server / Sub Server". It has two tabs: "Main Server / Sub Server" (selected) and "User Sync.". Below the tabs is a section titled "Sub Server Settings" with the following fields:

| | |
|------------------------|---------------|
| Server No. | 10 |
| LAN IP Address | 192.168.1.117 |
| LAN Streaming Port | 18384 |
| WAN IP Address | [empty] |
| WAN Streaming Port | [empty] |
| Administrator Password | ***** |

Below these fields are two buttons: "Add" (highlighted with a blue box) and "Modify".

Below the settings is a section titled "Sub Server List" with the following table:

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

At the bottom of the main window are two buttons: "Save" (highlighted with a blue box) and "Reset".

Command Chain

The screenshot shows the NUUO NT-4040(R) web interface. On the left, a sidebar lists various settings: IP Camera, Recording & Event, RAID & File System, I/O Settings, Network Setup (with Network Setup and Network Service), Main Server / Sub Server (which is selected and highlighted in blue), Management, and System. Below these, it shows Firmware Version: 1.3.0 and Free Capacity: 436 GB.

The main content area is titled "Main Server / Sub Server" and has two tabs: "Main Server / Sub Server" and "User Sync." (which is currently selected). A sub-section titled "Sub Server List" contains a note: "Please make sure both web port and administrator password of sub servers are filled in before synchronizing users." It includes a table with one row:

| No. | LAN IP | LAN Web Port | WAN IP | WAN Web Port |
|-----|--------------|--------------|--------|--------------|
| 1 | 192.168.5.10 | 80 | - | - |

A "Synchronize" button is located below the table. A modal dialog box titled "Message from webpage" contains a warning message: "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?" It has "OK" and "Cancel" buttons.

In the bottom-left corner, there is a separate window titled "User Sync." with the status "Completed". It shows a table with one row:

| No. | Status |
|-----|---------|
| 1 | Succeed |

An "OK" button is at the bottom of this window.

- Synchronisation der Benutzerrechte

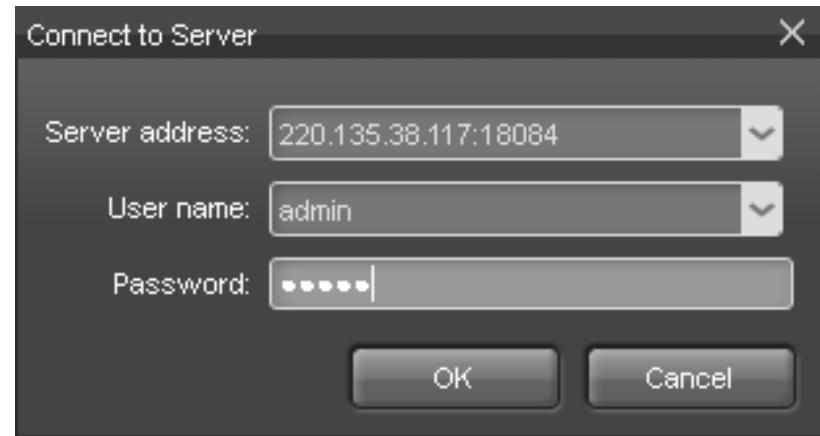
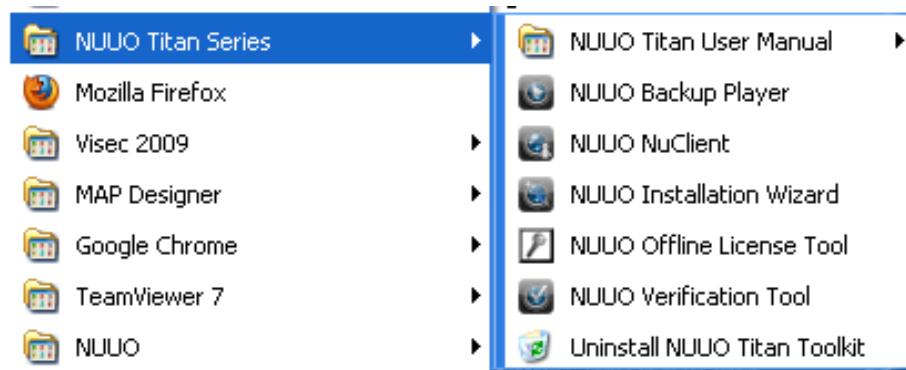
NuClient



The Intelligent Surveillance Solution

Login

- Öffnen des NuClient

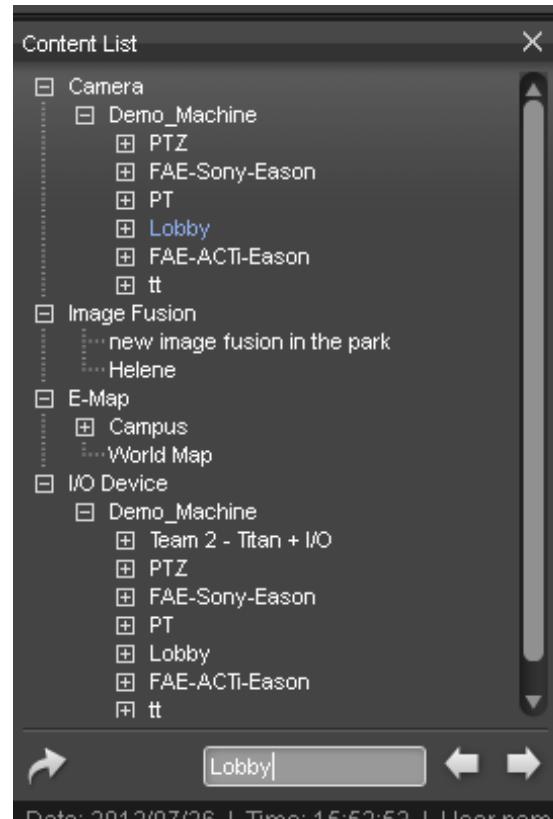


Benutzerdefiniertes Layout



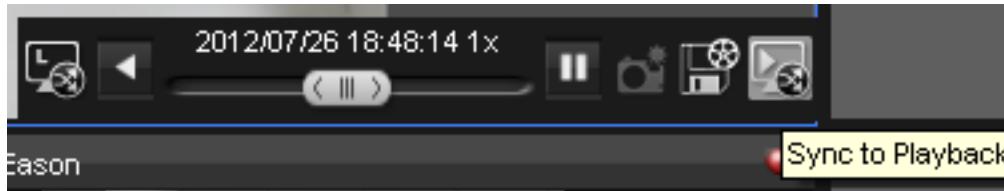
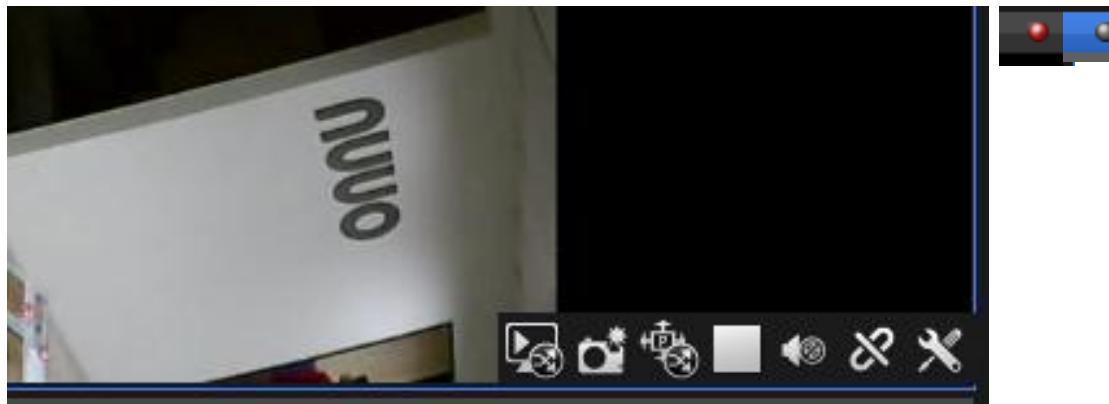
Content List

- 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



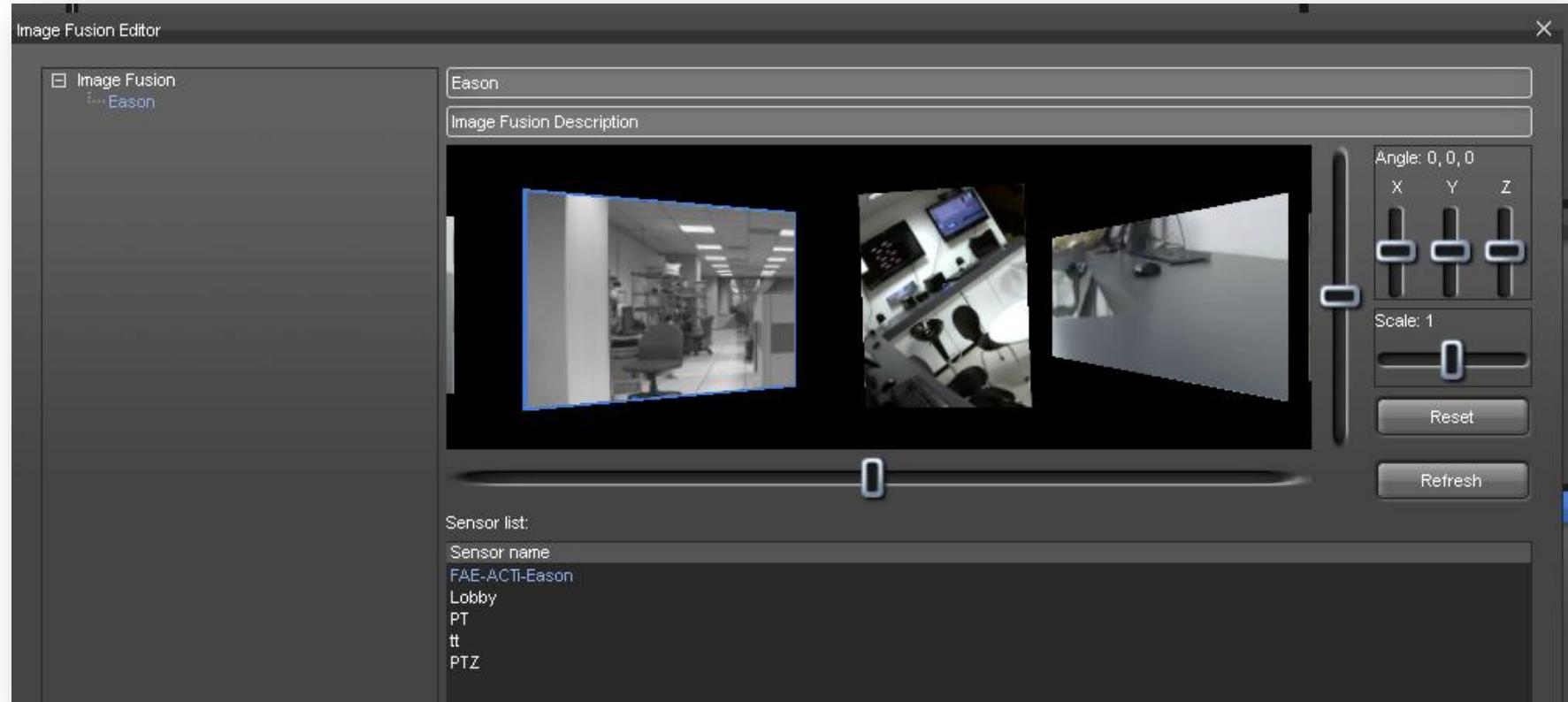
E-Map

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



Image Fusion

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



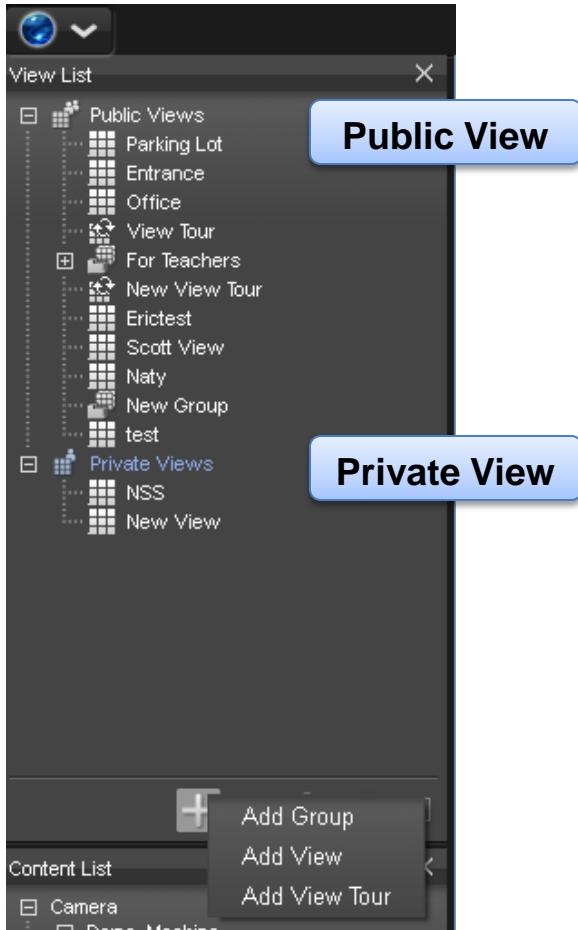
View List

- 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.



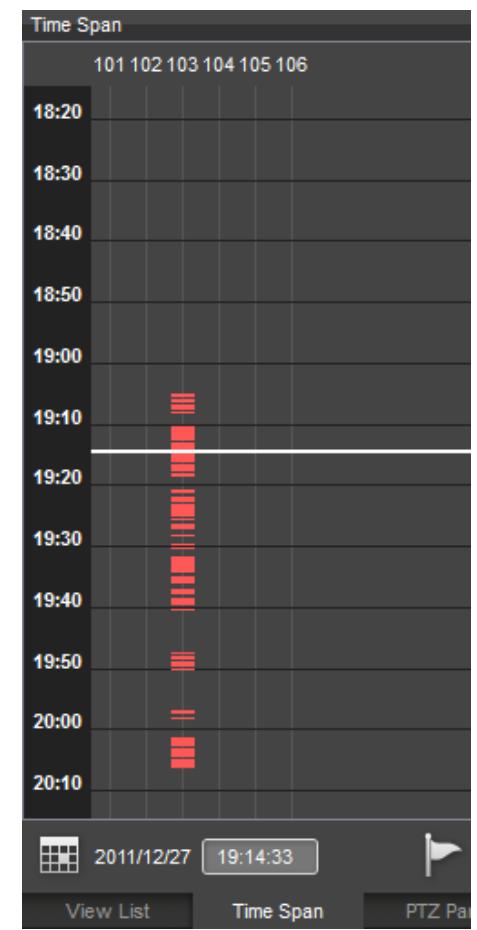
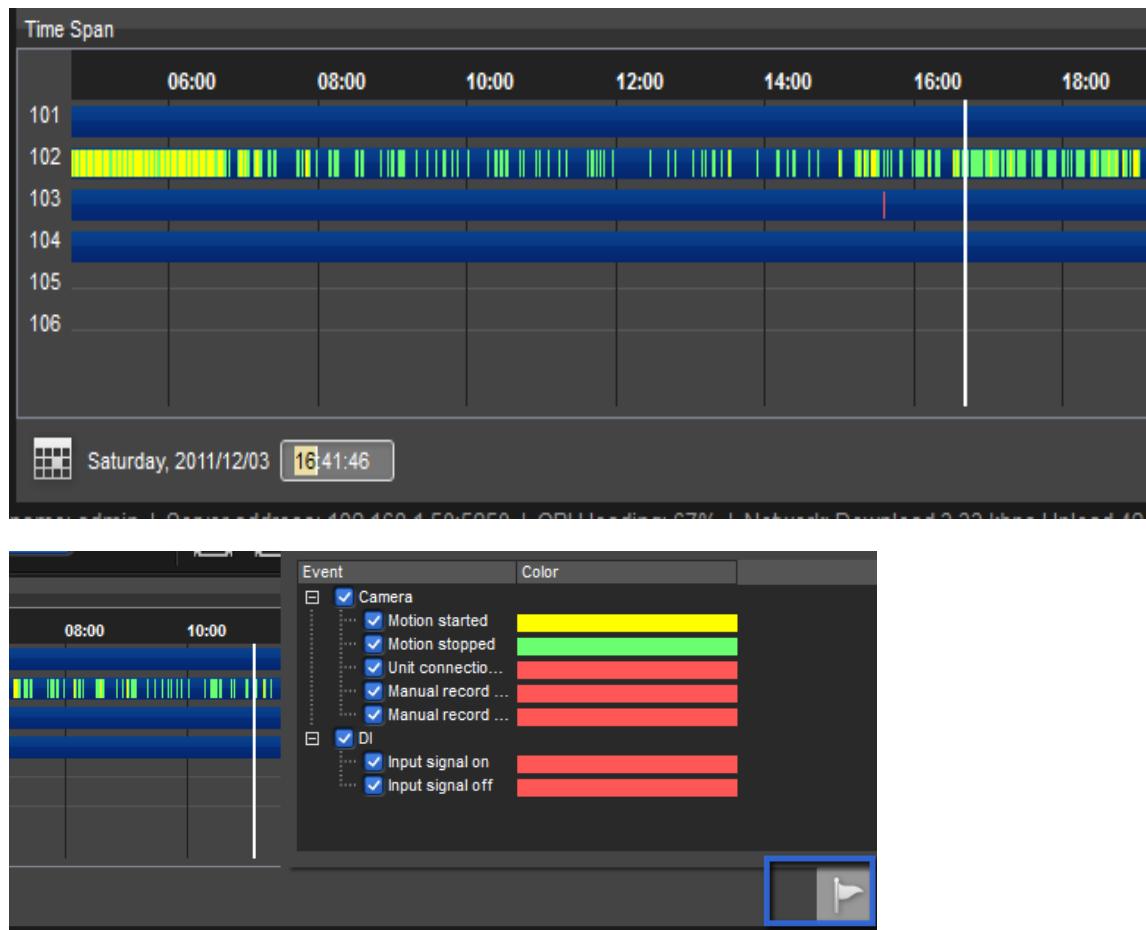
Ereignisliste

- Durch Doppelklick zur Live-Ansicht gelangen

| 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.

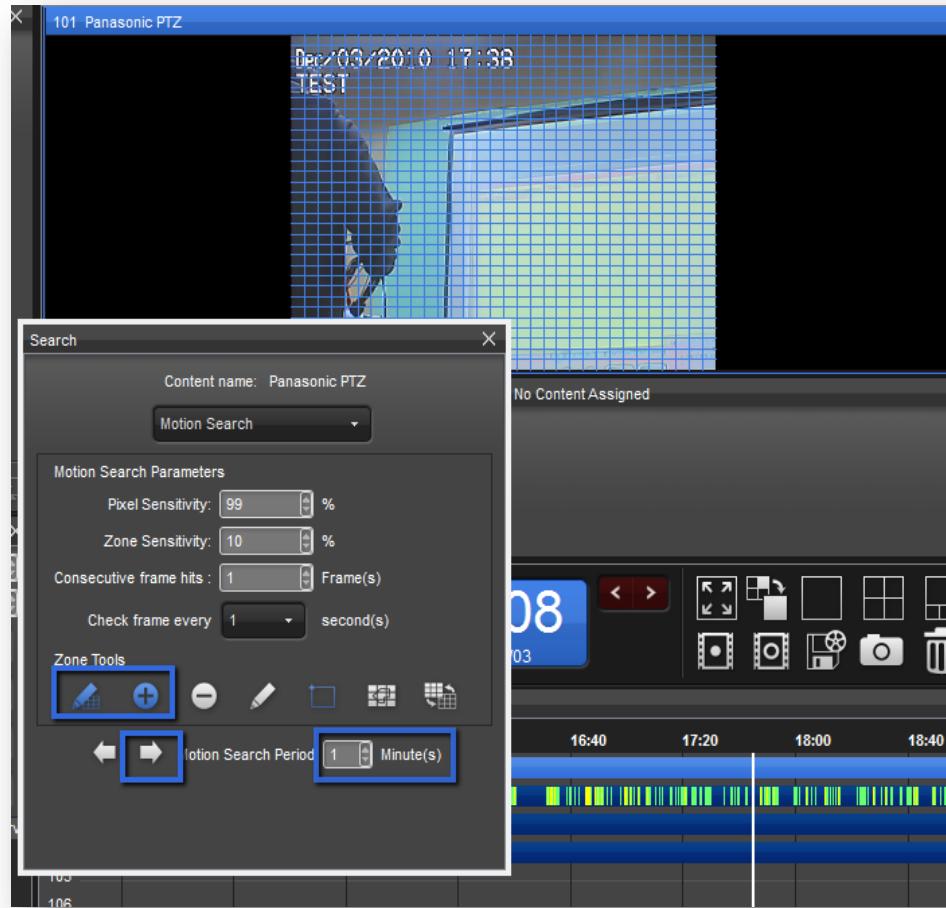


Wiedergabe – Ereignisliste

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

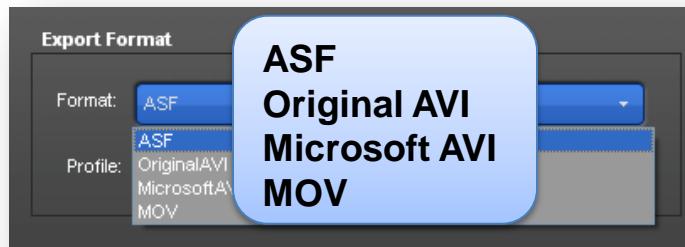
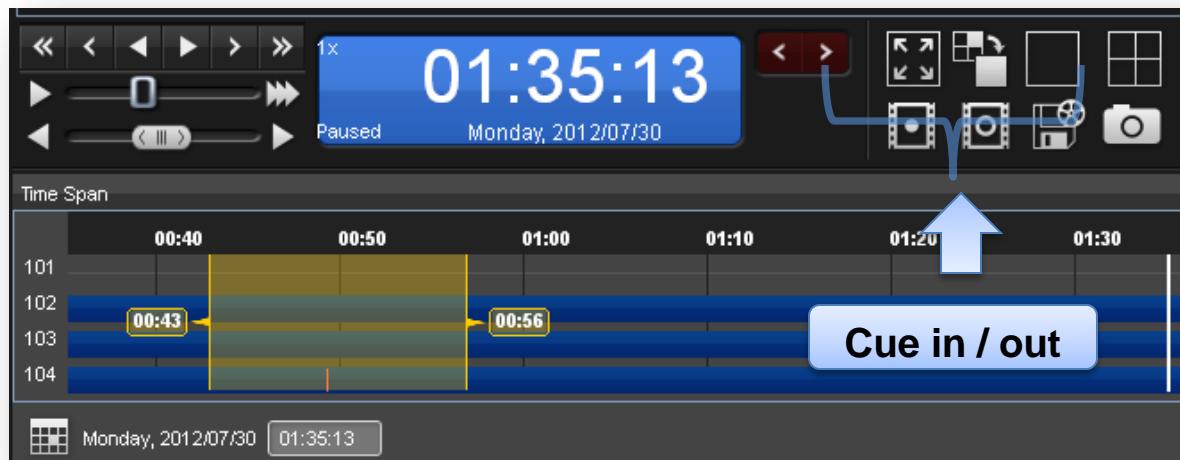
Wiedergabe – Bewegungssuche

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

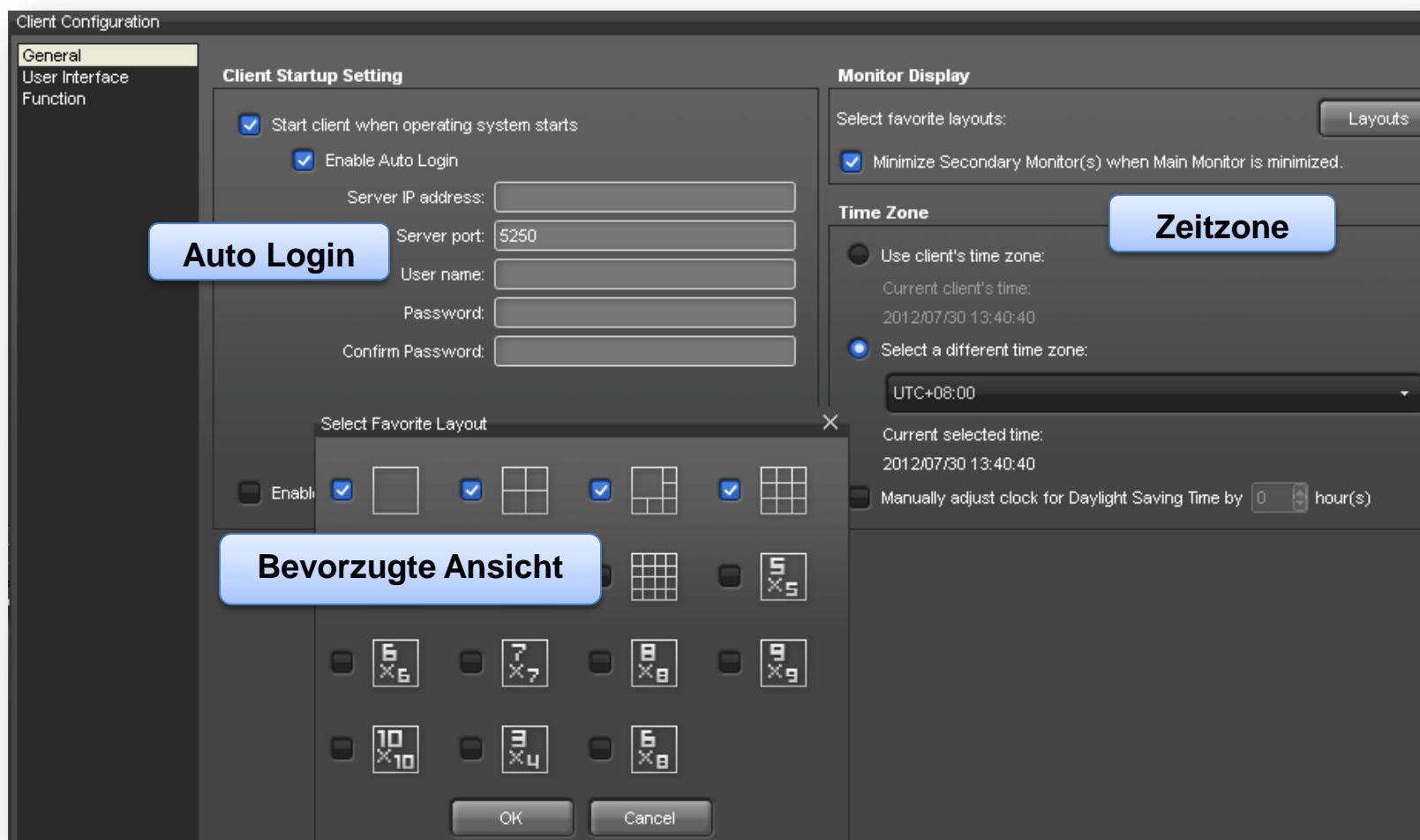


Wiedergabe – Video exportieren

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



Client Configuration - Allgemein



Client Configuration – Benutzer-Interface

The screenshot shows the 'Client Configuration' window with the 'User Interface' tab selected in the sidebar. A blue callout box highlights the title 'Allgemein/ Benutzerdefiniert' above the 'General' tab. The 'Content Title' section contains several checkboxes for displaying content like Grid number, Camera name, Camera bit rate, and Camera recording status. The 'Status Bar' section also has a list of checkboxes for Date, Time, User name of the login server, Address of Management server, CPU utilization of client PC, Memory usage of client PC, Network download bit rate, Network upload bit rate, and Customized text. A text input field at the bottom of the status bar section contains the text 'NUUO Demo Room'.

Allgemein/ Benutzerdefiniert

Client Configuration

General User Interface Function

General Customize

Content Title

- Show content title
 - Grid number
 - Camera name
 - Camera bit rate
 - Camera frame rate
 - Date
 - Time
 - Camera recording status

Status Bar

- Date
- Time
- User name of the login server
- Address of Management server
- CPU utilization of client PC
- Memory usage of client PC
- Network download bit rate
- Network upload bit rate
- Customized text

NUUO Demo Room

Client Configuration – Funktionen

The screenshot displays the NUUO Client Configuration interface with several functional sections:

- Snapshot** (selected tab):
 - Manual print or save Snapshot image
 - Automatically save Snapshot images

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

Save as type: .bmp

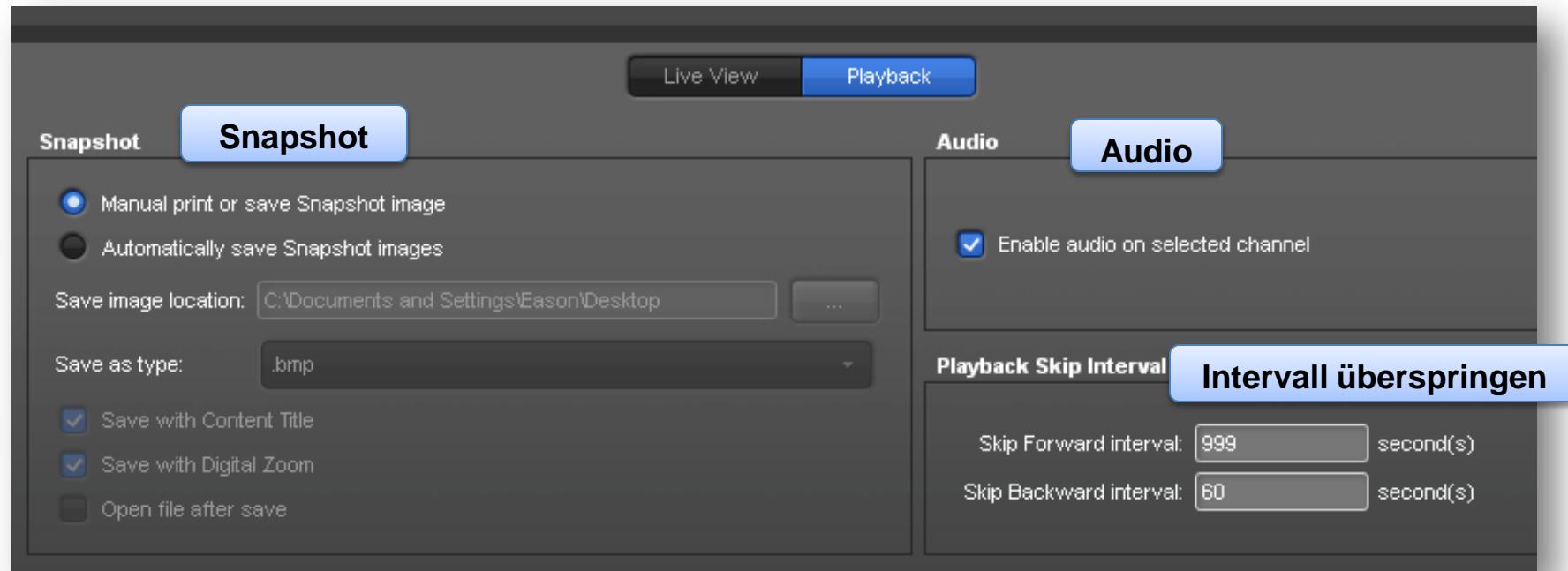
Save with Content Title
 Save with Digital Zoom
 Open file after save
- Audio**:
 - Enable audio on selected channel
- Instant Playback**:

Start playing from previous N seconds (15~300): 60
- Audio Alarm**:
 - 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 second(s)
- Ereignisliste**:

Event List display options:
 - Max. events under Event List:
 - Show events under minute(s)

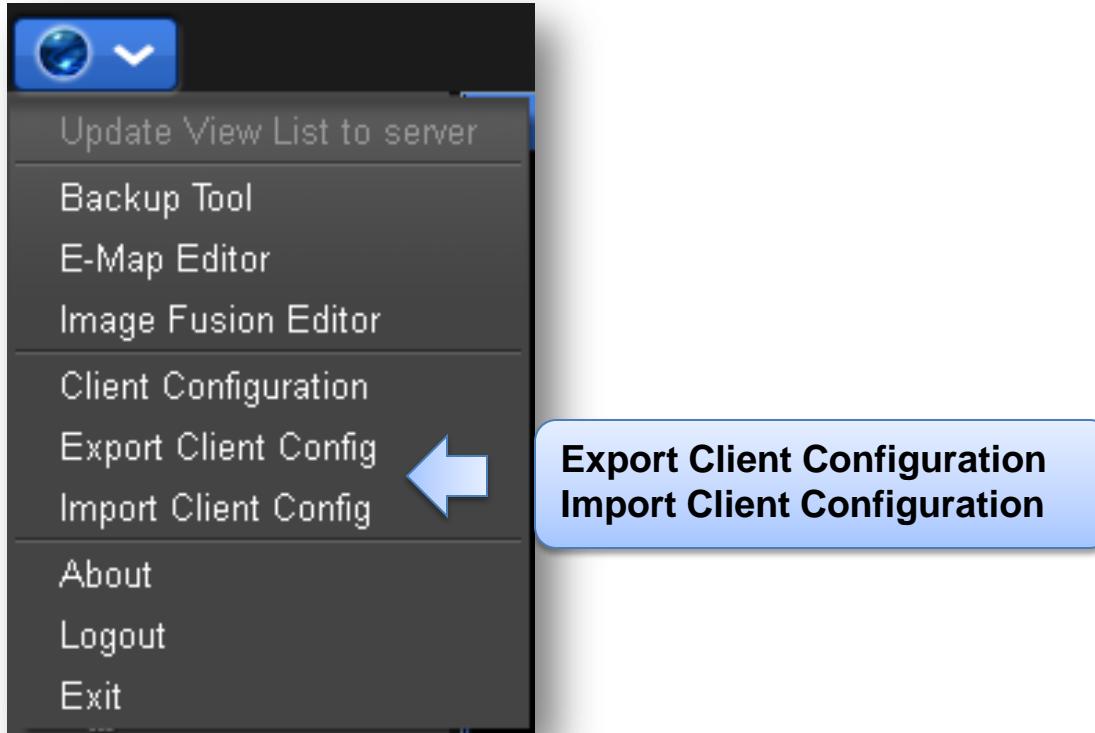
Video display mode:
 - Popup window
 - First empty grid or Grid 1 if no empty grid
- Joystick**:

Client Configuration – Funktion (Wiedergabe)



Export/Import Client Configuration

- Eingestellte Konfigurationen können exportiert bzw. importiert werden.



Verification Tool

- Überprüfung der ausgelagerten Datei auf Echtheit. Unterstützte Formate:

The screenshot shows the Verification Tool interface. At the top, there is a table with columns: File Name, Watermark, Start Time, End Time, Camera Name, and Path. Two rows are visible:

| File Name | Watermark | Start Time | End Time | Camera Name | Path |
|------------|-----------|-------------------|-------------------|----------------|---------------|
| eason.bmp | X | 20120730 11:53:31 | 20120730 11:53:31 | FAE-ACTi-Eason | D:/eason.bmp |
| eason2.bmp | ✓ | | | | D:/eason2.bmp |

A blue arrow points from the text ".DAT ASF AVI MOV Jpg bmp" to the "Watermark" column of the first row.

On the right side of the interface, a vertical bar labeled "Preview" shows a small thumbnail image. Below the preview bar, there is a status bar with icons for file operations and a progress bar showing 0%. At the bottom, there is a summary table:

| | | | |
|-------------------------------------|---------|--------------------------|-----------|
| Number of verified file: Status: | 2 files | Time elapsed: Verify: | 00:00:080 |
| Number of passed file: | 1 files | Time left: | 00:00:000 |

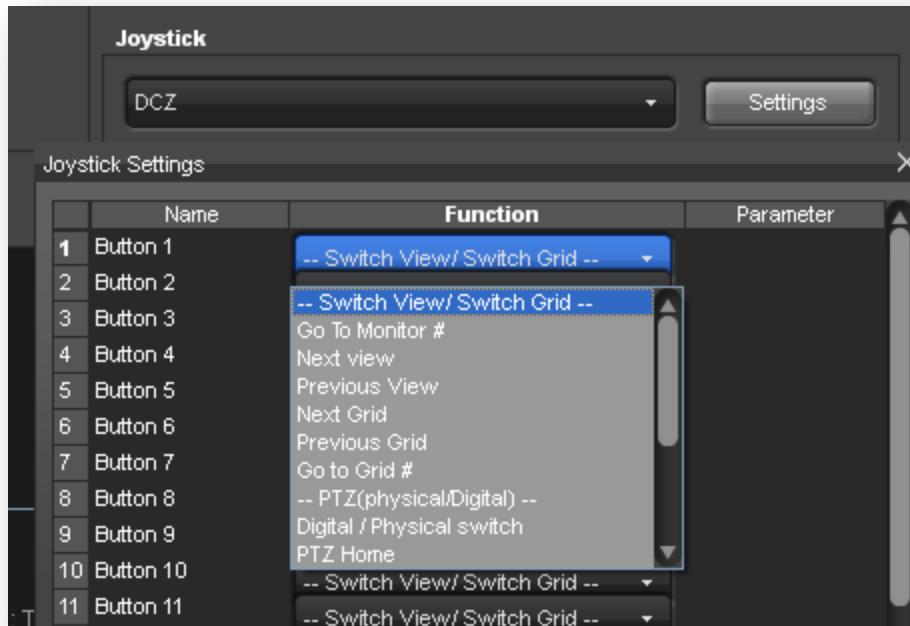
At the very bottom left, the text "Verification Tool 1.3.4.1" is visible.

A blue callout box on the right lists supported file formats:

- .DAT
- ASF
- AVI
- MOV
- Jpg
- bmp

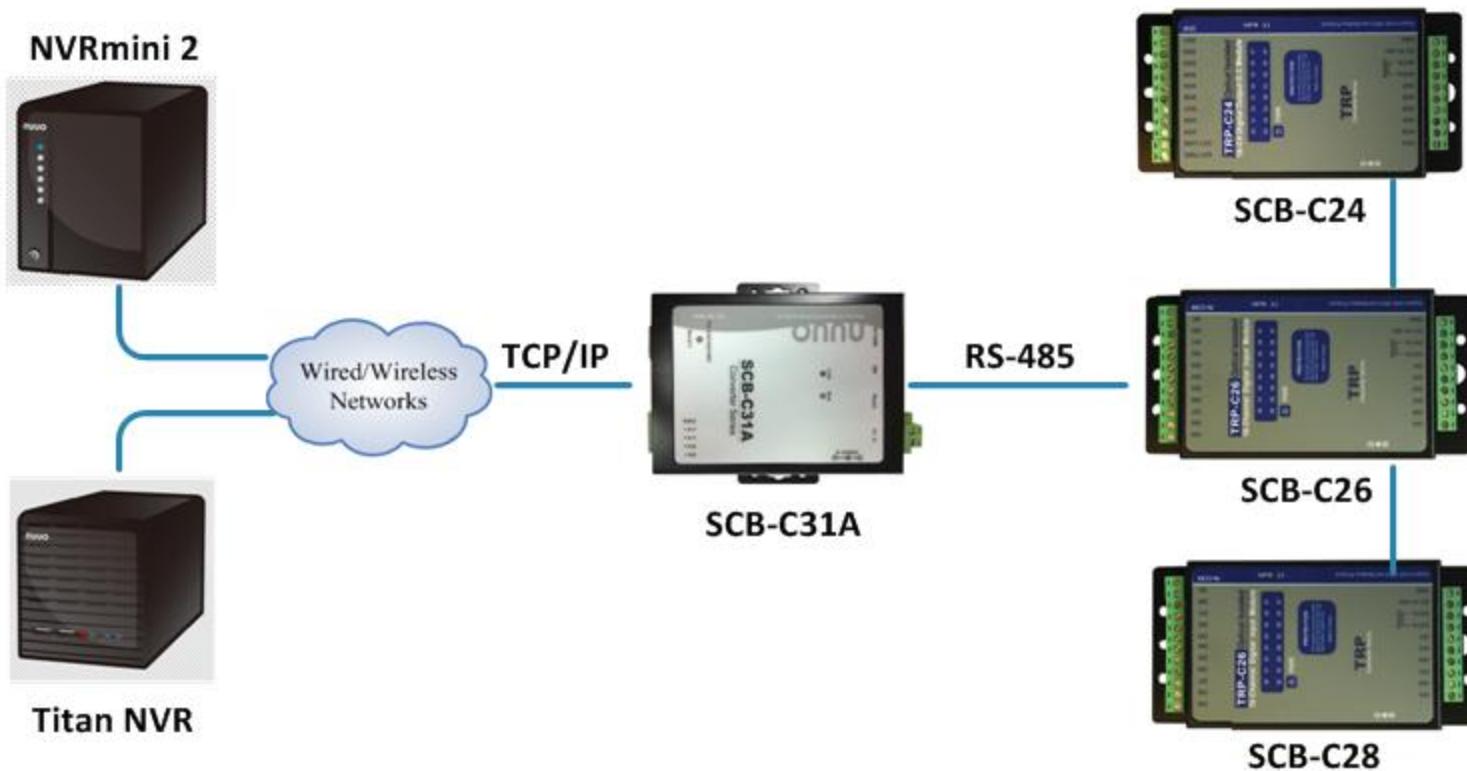
Joystick

- Was kann mit dem Joystick gesteuert werden?



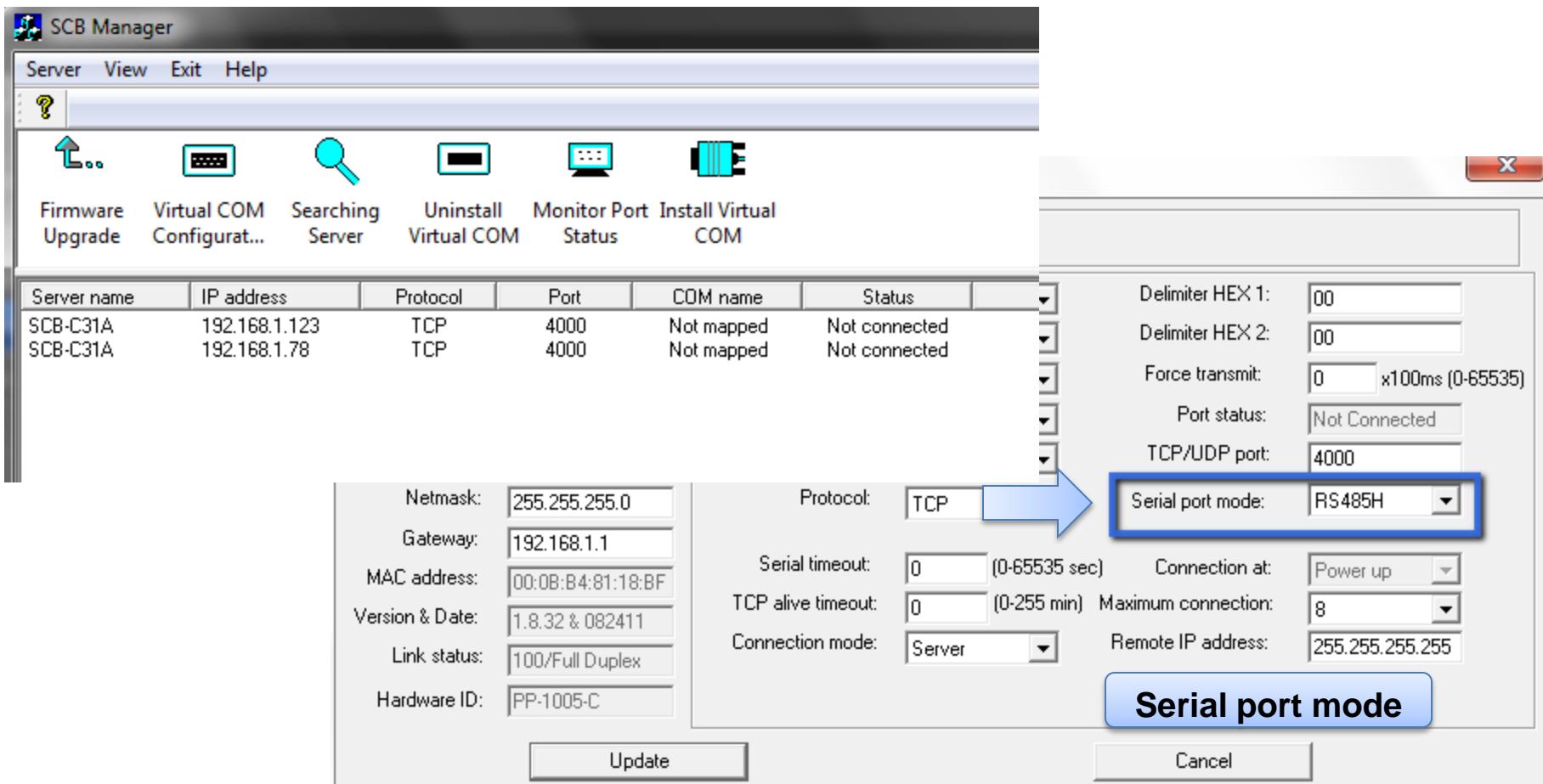
- Go to Monitor #
- Next view
- Previous view
- Next Grid
- Previous Grid
- Go to Grid #
- Digital PTZ
- Digital / Physical switch
- PTZ home
- Zoom in
- Zoom out
- Go to preset #
- Edit view
- Delete content

I/O Lösung



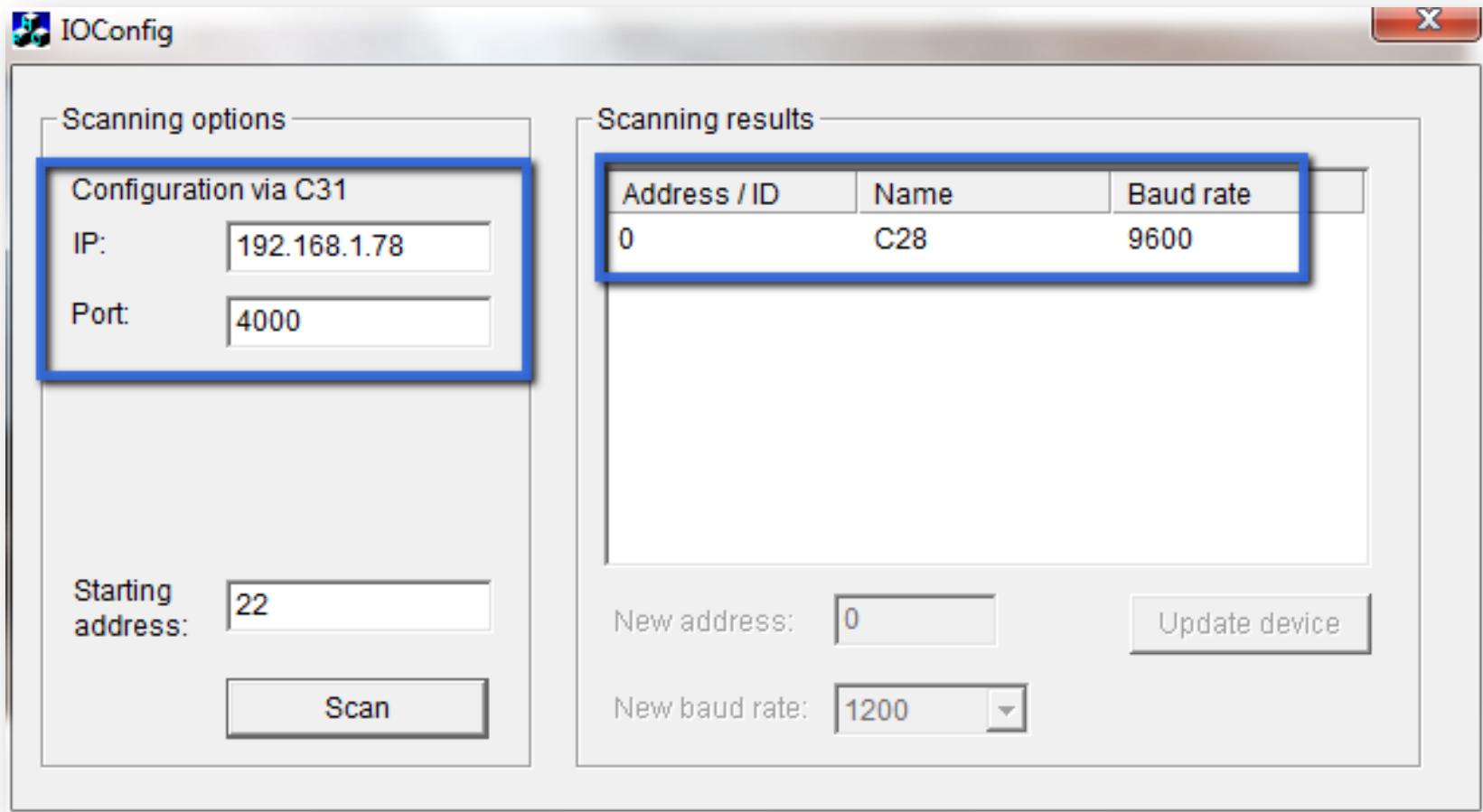
I/O Lösung

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



I/O Lösung

- Überprüfung der Verbindung von SCB-C28 und ID



I/O Lösung

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

The screenshot shows the NUUO NT-4040(R) software interface for managing I/O settings. The left sidebar lists various system configurations, with 'I/O Settings' and its sub-item 'I/O Settings' selected. The main panel displays the 'I/O Settings' configuration page, specifically the 'I/O Box Settings' tab. A blue box highlights the configuration fields for the selected device:

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

Below these fields are two buttons: 'Create' and 'Modify'. The 'I/O Box List' section at the bottom shows a single entry for the configured device:

| 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 shows the NUUO NT-4040(R) software interface for Event & Action Management. The left sidebar menu includes options like IP Camera, Recording & Event (selected), Recording Settings, Event & Action Management (selected), E-Mail, RAID & File System, I/O Settings, Network Setup, Management, and System. The Firmware Version is 1.0.0 and Free Capacity is 4.1 GB. The main window title is "Event & Action Management". The "Event & Action" tab is selected. Below it are buttons for 1-16, 17-32, 33-48, 49-64, I/O BOX (which is highlighted in blue), and System. The "I/O BOX" section contains a "Configure" button and a tree view under "Camera List". The tree shows an I/O Box 51001 (Team 2 - Titan) node expanded, with a "Reception" node selected (indicated by a checked checkbox). Other nodes include "Ground floor -", "Second floor -", and "Second floor -". To the right is a "Event & Action" panel with "Add", "Del", and "Configure" buttons. It lists actions: "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)) and "On Screen Display". A note at the bottom says: "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 shows the 'Date / Time' setup page for the NUUO NT-4040(R). The left sidebar lists various system settings, with 'Date / Time' selected. The main panel displays the current date and time (2012/07/30 13:37:24) and allows setting the time zone to '(GMT+08:00) Beijing, Hong Kong, Kuala Lumpur, Perth, Singapore, Taipei'. A dropdown menu is open, showing two options: 'Use client's time zone:' (selected) and 'Select a different time zone:'. Under 'Select a different time zone:', 'UTC+08:00' is chosen, and the current selected time is shown as '2012/07/30 13:37:24'. There is also an option to 'Manually adjust clock for Daylight Saving Time by 0 hour(s)'.

Client' Zeitzone

Verschiedene Zeitzonen

iViewer

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

The image shows two screenshots of the iViewer mobile application interface.

Left Screenshot: A camera configuration screen for an NT-4040(R) device. It includes fields for 'Name' (Eason), 'Server Address' (190.86.175.165), 'Server Port' (5250), 'Username' (admin), and 'Password' (represented by five dots). A blue callout box highlights the 'Server port: 5250' field.

Right Screenshot: A 'Network Service' configuration screen. It has tabs for 'Network Service' (selected) and 'Web Server'. Under 'Streaming Server', the 'Port' is set to 5250. Under 'Black/White List', the 'White List' checkbox is checked. The 'Network Service' tab in the left screenshot's sidebar is also highlighted.

Festplattenaustausch

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

The screenshot shows the NUUO NT-4040(R) web interface. On the left is a sidebar with the following menu items:

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

Below the sidebar, the system status is displayed:

Firmware Version: 1.2.0
Free Capacity: 45.8 GB

The main content area is titled "RAID Management". The "Modify" tab is highlighted with a blue border. Below it is a "RAID Status" section with a "List" view. The "List" view shows a tree structure under "Volumes": "Volumes" → "VOLUME1" → "Disk 1" → "Disk 3". To the right of the tree is a "Status" table with the following data:

| | 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

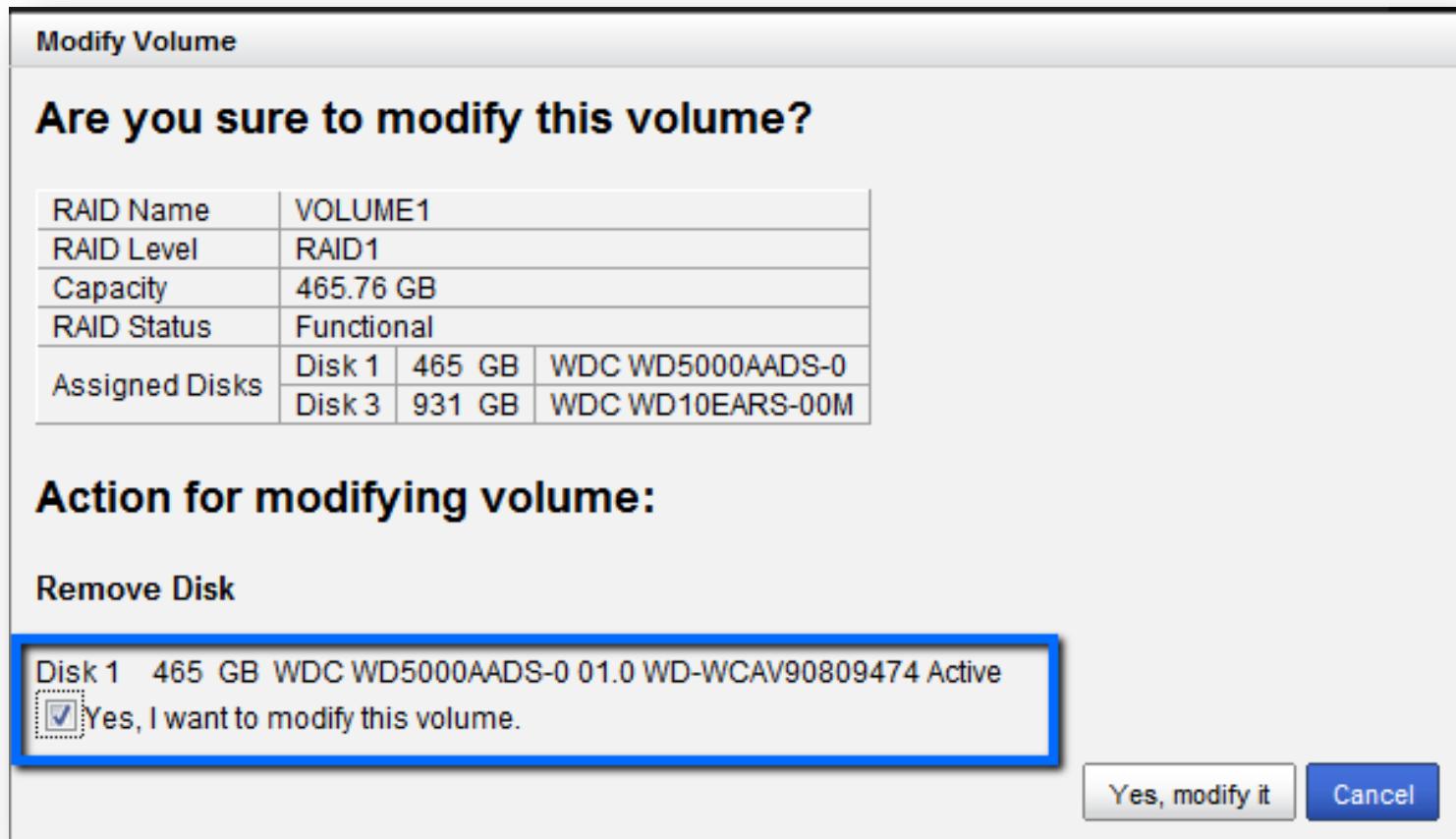
- Wählen Sie die Festplatte, die ausgetauscht werden soll.

The screenshot shows the RAID Management interface of the NUUO NT-4040(R). The left sidebar has a tree view with 'RAID Management' selected. The main area has tabs for 'RAID Status', 'Modify' (which is highlighted with a blue box), 'Create', 'Delete', and 'Format'. Under 'Modify', there's a 'RAID List' table with one entry: VOLUME1 (RAID1, 465.76 GB, Functional). Below it is a 'Modify Volume' form with fields: RAID Name (VOLUME1), RAID Level (RAID1), Capacity (465.76 GB), and RAID Status (Functional). At the bottom right, under 'Actions', there are two radio buttons: 'Remove Disk' (selected, highlighted with a blue box) and 'Add Disk'. A modal dialog at the bottom left says 'Festplatte entfernen'.



Festplattenaustausch

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



Festplattenaustausch

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

The screenshot shows the NUUO RAID Management interface. On the left, a sidebar menu includes options like IP Camera, Recording & Event, RAID & File System (selected), RAID Management (selected), iSCSI Initiator, Auto Backup Management, I/O Settings, Network Setup, Management, and System. The Firmware Version is listed as 1.2.0 and Free Capacity as 952.6 GB. The main area is titled "RAID Management" with tabs for RAID Status, Modify, Create, Delete, and Format. Under "RAID Status", there's a "List" tab showing a tree view with Volumes (VOLUME1, Disk 3) and Free Disks (Disk 2). A callout bubble highlights "RAID Status: Critical". The "Status" tab displays detailed information:

| 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 | 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 | |

Festplattenaustausch

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

The screenshot shows the NUUO NT-4040(R) web interface under the 'RAID Management' tab. The left sidebar includes options like IP Camera, Recording & Event, RAID & File System (selected), RAID Management (highlighted in blue), iSCSI Initiator, Auto Backup Management, I/O Settings, Network Setup, Management, and System. The Firmware Version is 1.2.0 and Free Capacity is 952.6 GB. The main content area displays the RAID List with one volume named VOLUME1 (RAID1, 465.76 GB, Critical). The Free Disk List shows Disk 2 (WDC WD10EARS-00M, 931 GB). In the Modify Volume section, the RAID Name is set to VOLUME1, RAID Level to RAID1, Capacity to 465.76 GB, and RAID Status to Critical. The Actions section contains two radio buttons: 'Remove Disk' (unchecked) and 'Add Disk' (checked). A blue box highlights the 'Add Disk' radio button and the text 'Disk 2: 931 GB WDC WD10EARS-00M'. At the bottom are 'Modify' and 'Reset' buttons, with 'Modify' also highlighted in blue.

NUUO™

NT-4040(R)

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

Remove Disk

Add 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.

Festplattenaustausch

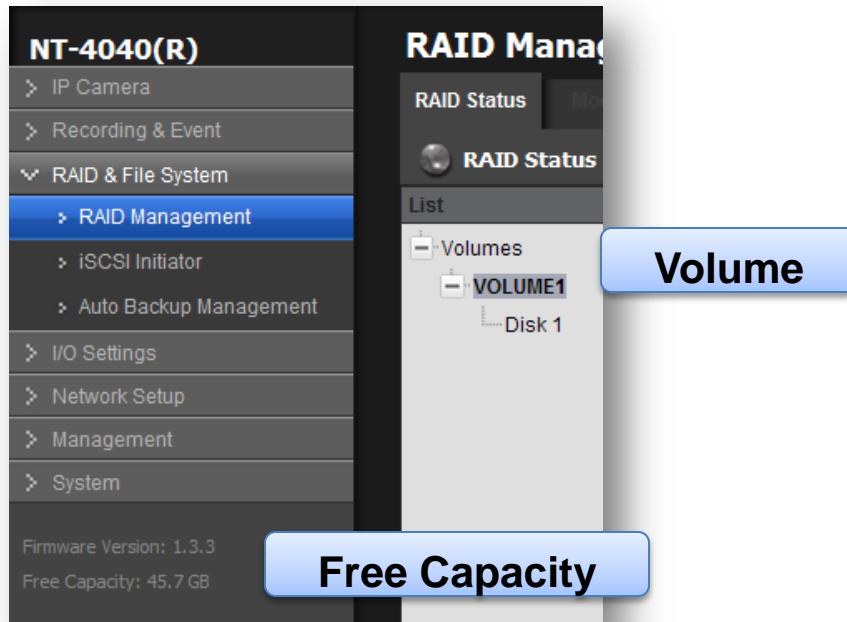
- Gehen Sie zu “RAID Management” und überprüfen Sie, dass der RAID Status als “Functional” angezeigt wird.
- Es muss freie Kapazität angezeigt werden.

The screenshot shows the NUUO NT-4040(R) management interface. The left sidebar has a tree view with nodes like IP Camera, Recording & Event, RAID & File System (selected), RAID Management (selected), iSCSI Initiator, Auto Backup Management, I/O Settings, Network Setup, Management, and System. The Firmware Version is 1.2.0 and Free Capacity is 45.8 GB. The main window is titled "RAID Management" and shows the "RAID Status" tab selected. It displays a table with RAID Name (VOLUME1), RAID Level (RAID1), and RAID Status (Functional). A callout bubble highlights the "Functional" status. The table also includes columns for Total Capacity (465.76 GB / 476938 MB), Free Capacity (45.84 GB / 46948 MB), Used Capacity (412.6 GB / 422504 MB), Usage (90% red bar), 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 (0%), and Recovery Progress (0%). The "Volumes" section shows entries for VOLUME1, Disk 3, and Disk 2.

| RAID Name | VOLUME1 |
|-------------------|--|
| RAID Level | RAID1 |
| RAID Status | Functional |
| Total Capacity | 465.76 GB (476938 MB) |
| Free Capacity | 45.84 GB (46948 MB) |
| Used Capacity | 412.6 GB (422504 MB) |
| Usage | <div style="width: 90%; background-color: red;"></div> 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 | <div style="width: 0%; background-color: lightgray;"></div> 0% |
| Recovery Progress | <div style="width: 0%; background-color: lightgray;"></div> 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

SANTEC BW AG
An der Strusbek 31
22926 Ahrensburg, Germany
Tel: +49 4102 4798 0
www.santec-video.com