

NETWORK VIDEO RECORDER

FA00768M04



MS-N5016-UH — MS-N5032-UH



MS-N7016-UH — MS-N7032-UH




MS-N8032-UH — MS-N8064-UH

MANUALE DI CONFIGURAZIONE E USO

IT	Italiano
EN	English
FR	Français
DE	Deutsch

AVVERTENZE GENERALI

-  Importanti istruzioni per la sicurezza delle persone: **LEGGERE ATTENTAMENTE!**
- L'installazione, la programmazione, la messa in servizio e la manutenzione devono essere effettuate da personale qualificato ed esperto e nel pieno rispetto delle normative vigenti.
- Togliere sempre l'alimentazione elettrica durante le operazioni di pulizia o di manutenzione.
- Il prodotto deve essere destinato solo all'uso per il quale è stato espressamente studiato.
- Il costruttore non può comunque essere considerato responsabile per eventuali danni derivanti da usi impropri, erronei ed irragionevoli.

DESCRIZIONE

Videoregistratori di rete digitale a 4, 8, 16, 32 ingressi.

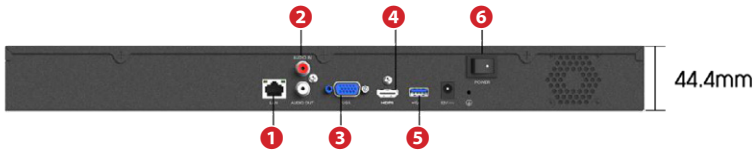
Dati tecnici

Tipo	MS-N5016-UH MS-N5032-UH	MS-N7016-UH MS-N7032-UH	MS-N8032-UH MS-N8064-UH
Ingressi video IP (numero canali)	16/32	16/32	32/64
Ingressi audio IP (numero canali)	16/32	16/32	32/64
Uscite video HDMI	1	1	2
Uscite video VGA	1	1	2
Ingressi/uscite audio (RCA)	1/1	1/1	1/1
Compressione video della registrazione	H.265 / H.264	H.265 / H.264	H.265 / H.264
Frame rate della registrazione (fps)	1 - 25	1 - 25	1 - 25
Porte SATA disponibili	2	4	8
Porte Ethernet RJ45	1x 100/1000 M	2x 10/100/1000 M	2x 10/100/1000 M
Porte seriali RS-485	-	2	2
Porte USB 2.0	2	2	2
Porte USB 3.0	1	1	1
Ingressi allarme	-	16	16
Uscite allarme	-	4	4
Absorbimento senza hard disk (W)	≤ 15	≤ 15	≤ 35
Temperatura di funzionamento (°C)	-10 ~ +55	-10 ~ +55	-10 ~ +55
Umidità di funzionamento (%)	10 ~ 90	10 ~ 90	10 ~ 90
Dimensioni (mm)	440 x 251 x 44,4	440 x 320 x 66,8	440 x 420 x 88,2
Bandwidth (Mbps)	160/320	160/320	320
Risoluzione di registrazione supportate	8MP(UHD-2160P)/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF		

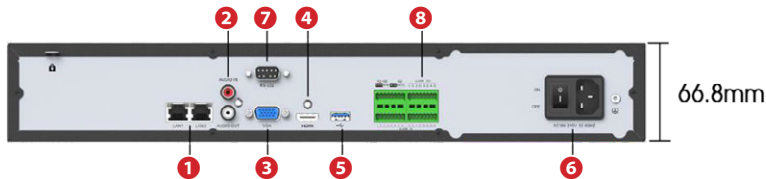
Tipo		MS-N5016-UH MS-N5032-UH	MS-N7016-UH MS-N7032-UH	MS-N8032-UH MS-N8064-UH
Numero massimo di canali sincronizzati in playback	25fps@D1	16/32	16/32	32/64
	25fps@720P	16/32	16/32	32
	25fps@1080P	16	16	16
	25fps@3MP	10	10	10
	25fps@4MP	8	8	8
	25fps@2160P (UHD)	4	4	4
	25fps@2160P (4K)	4	4	4

Descrizione delle parti

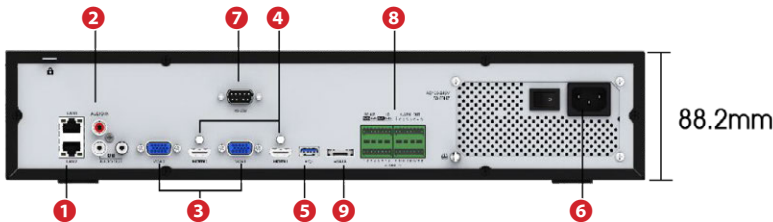
Pannello posteriore MS-N5016-UH - MS-N5032-UH



Pannello posteriore MS-N7016-UH - MS-N7032-UH



Pannello posteriore MS-N8032-UH - MS-N8064-UH

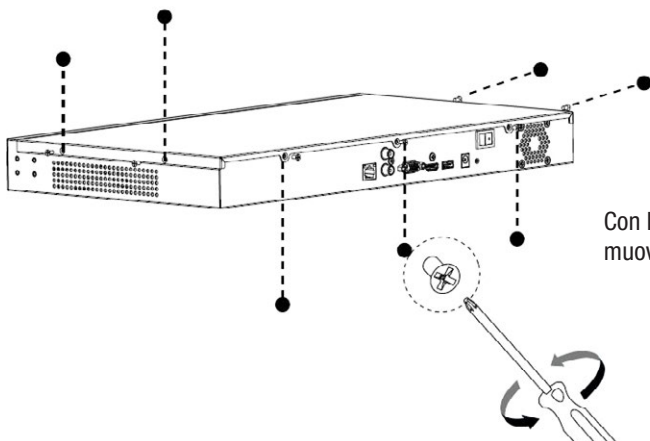


- 1 Porta LAN,
- 6 Alimentazione,
- 2 Ingressi / uscite audio
- 7 Connettore per tastiera,
- 3 Uscita video VGA,
- 8 Ingressi e uscite allarme,
- 4 Uscita video HDMI,
- 9 Connettore eSATA.
- 5 Porta USB 3.0,

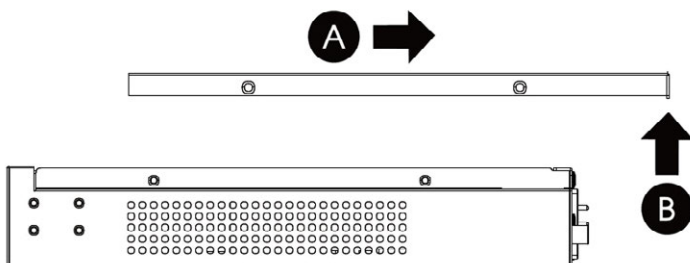
INSTALLAZIONE DEGLI HARD DISK

⚠ Togliere l'alimentazione elettrica durante le operazioni di montaggio degli hard disk

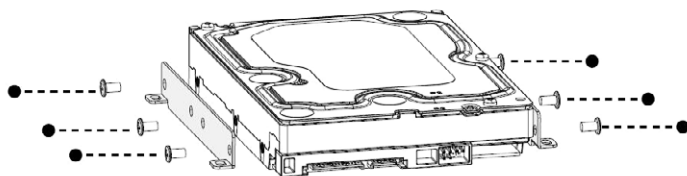
Installare hard disk sui modelli: MS-N5016-UH - MS-N5032-UH.



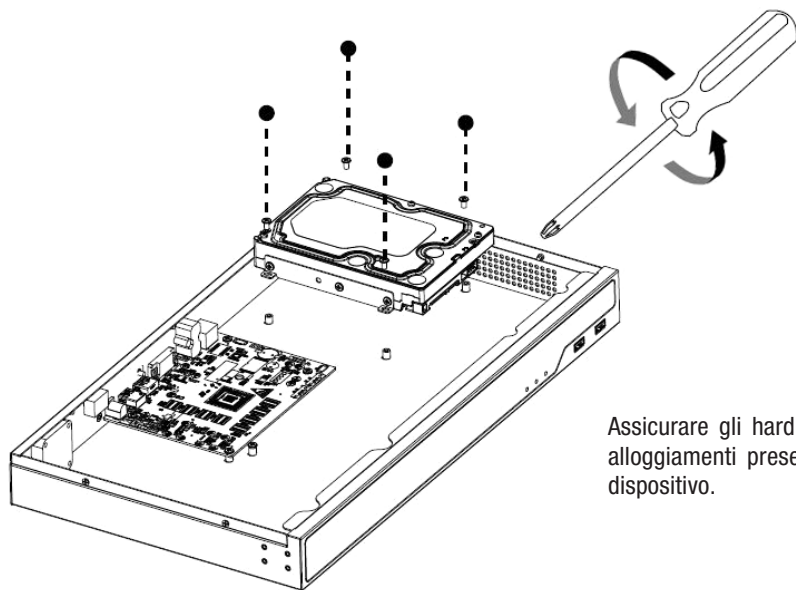
Con l'aiuto di un cacciavite a croce, rimuovere le viti del pannello posteriore.



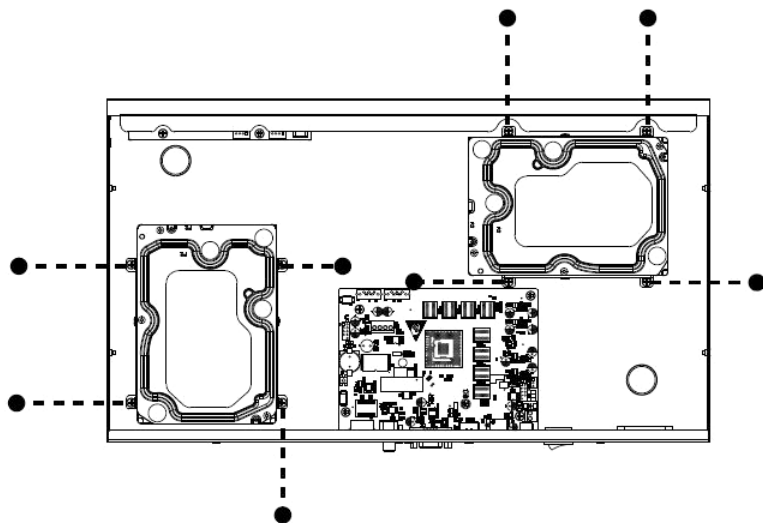
Fare scorrere all'indietro il pannello superiore del dispositivo e sollevarlo.



Montare le staffe sull'hard disk come mostrato in figura.

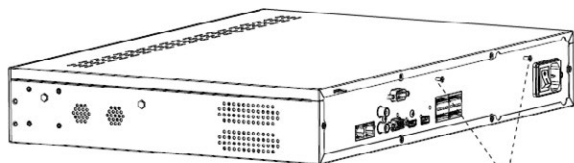


Assicurare gli hard disk agli appositi alloggiamenti presenti sulla base del dispositivo.

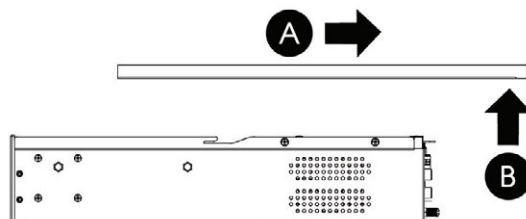
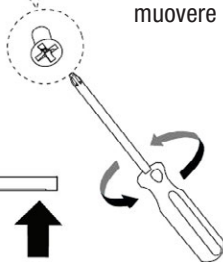


Verificare che tutte le viti siano ben serrate, collegare il cavo di alimentazione e il cavo dati a ogni HDD. Richiudere il pannello superiore.

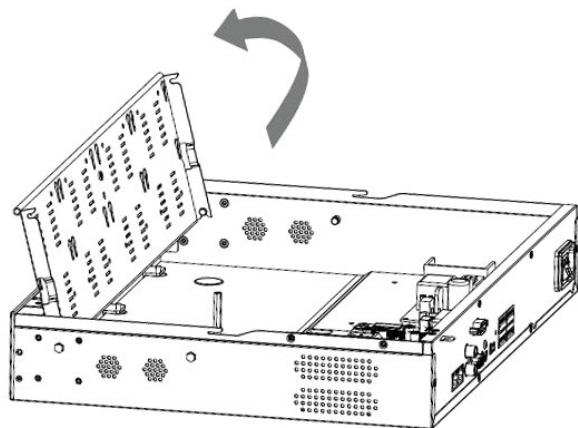
Installare hard disk sui modelli: MS-N7016-UH - MS-N7032-UH.



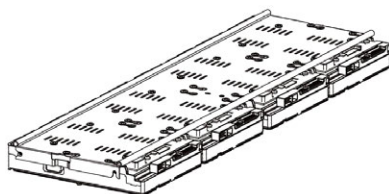
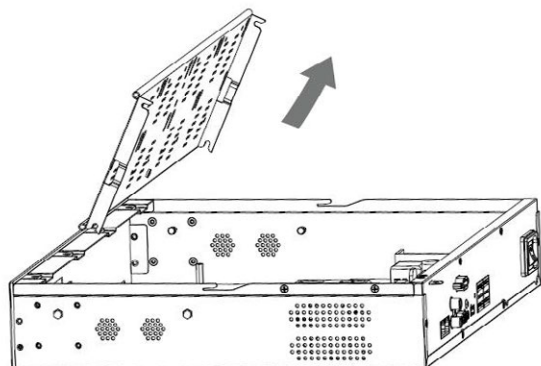
Con l'aiuto di un cacciavite a croce, rimuovere le viti del pannello posteriore.



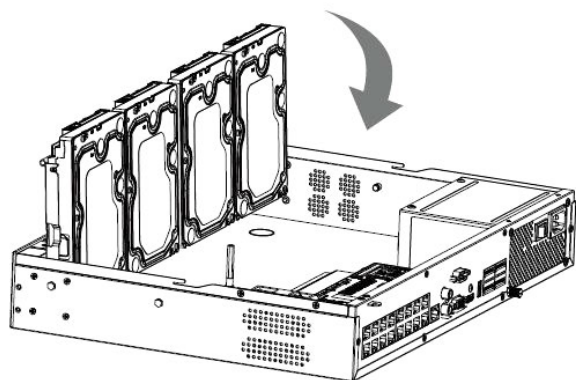
Fare scorrere all'indietro il pannello superiore del dispositivo e sollevarlo.



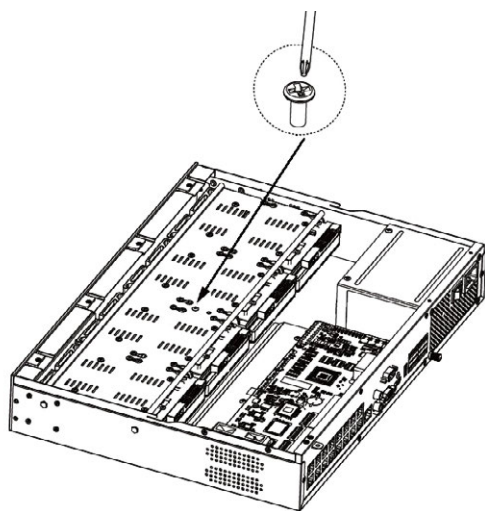
L'alloggiamento per gli hard disk può essere rimossa come mostrato in figura.



Inserire gli hard disk negli appositi spazi.



Ricollocare l'alloggiamento nella propria sede.

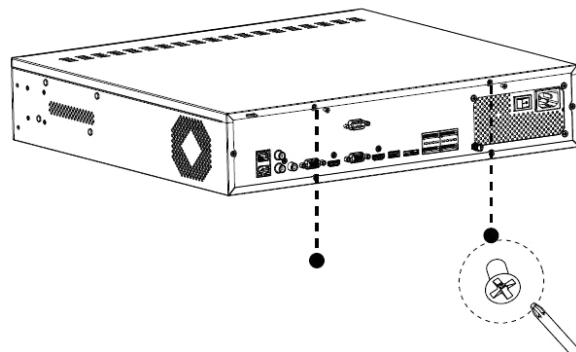


Verificare che le 16 viti della staffa HDD siano serrate saldamente.

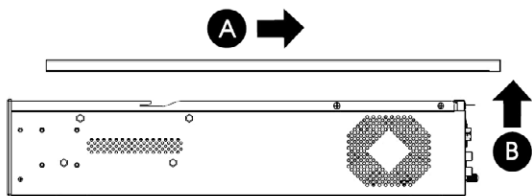
Fissare la staffa al dispositivo mediante la vite centrale.

Collegare il cavo di alimentazione e il cavo dati a ogni hard disk e richiudere il pannello superiore.

Installare hard disk sui modelli: MS-N8032-UH - MS-N8064-UH.

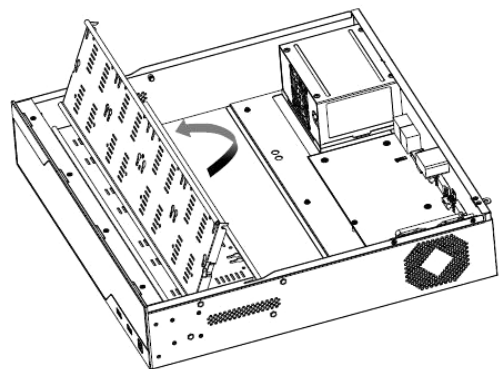
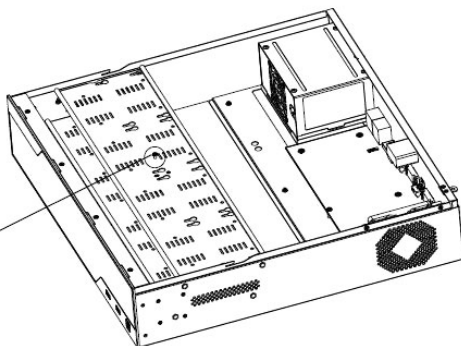
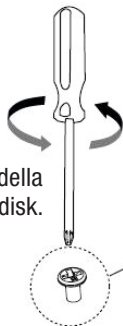


Con l'aiuto di un cacciavite a croce, rimuovere le viti del pannello posteriore.

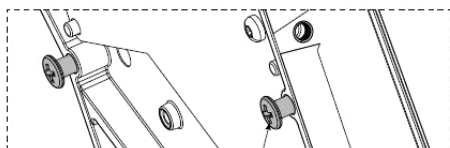


Fare scorrere all'indietro il pannello superiore del dispositivo e sollevarlo.

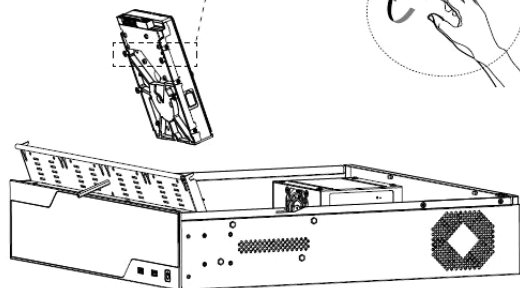
Rimuovere la vite posta al centro della staffa di alloggiamento degli hard disk.

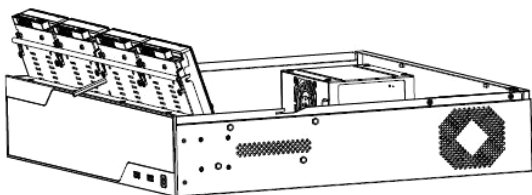
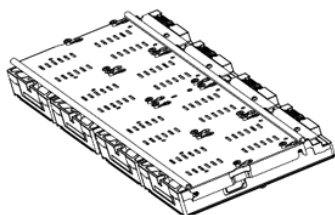
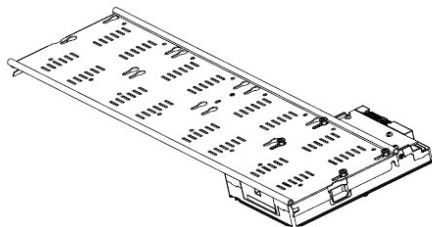
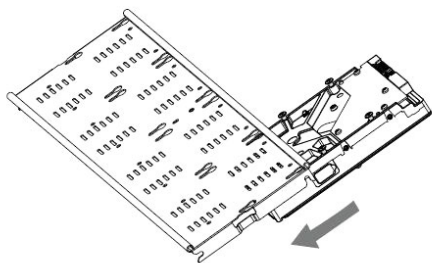


L'alloggiamento può essere aperto come mostrato in figura.



Avvitare quattro viti sugli appositi alloggiamenti presenti su ogni hard disk, avendo cura di lasciare sporgere la testa delle viti dal foro di circa 4mm.





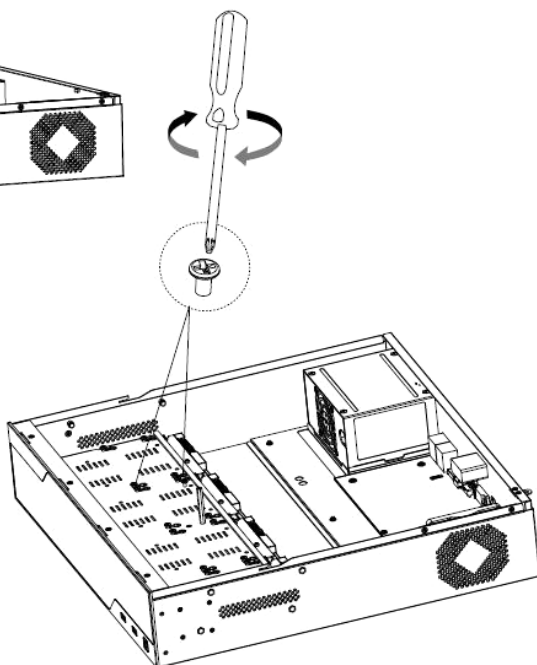
Alloggiare gli hard disk nella staffa, inserendo le teste sporgenti delle viti negli appositi alloggiamenti; fare scorrere l'hard disk come mostrato in figura e successivamente serrare le viti.

Inserire tutti gli hard disk negli appositi spazi, e ricollocare l'alloggiamento nella propria sede.

Verificare che le viti della staffa HDD siano serrate saldamente.

Fissare la staffa al dispositivo mediante la vite centrale.

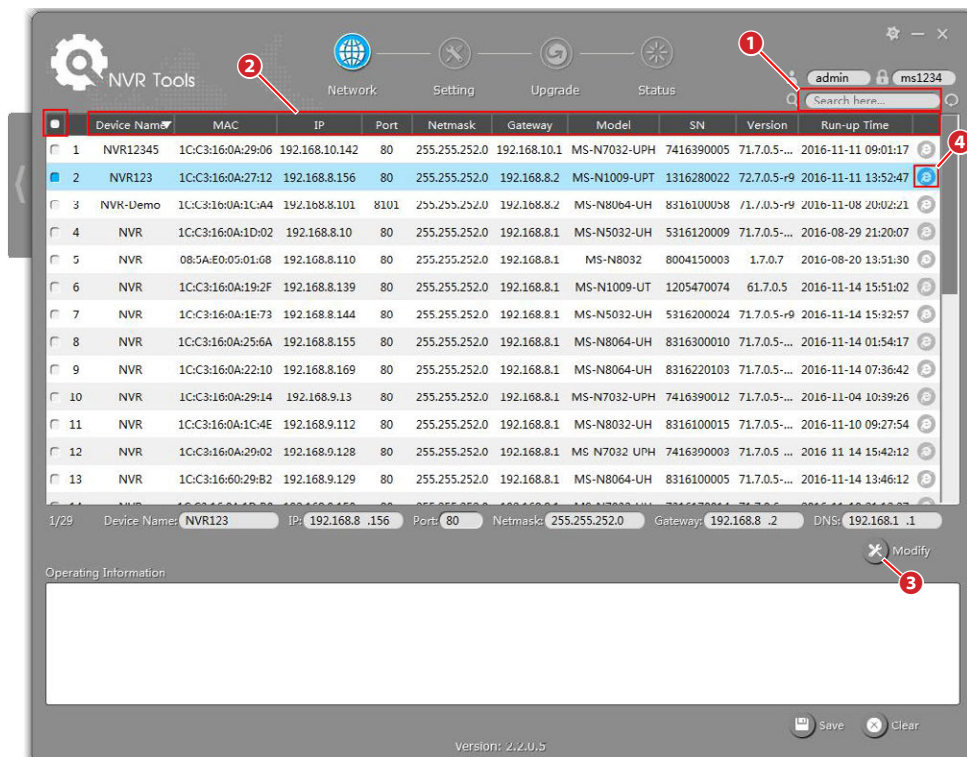
Collegare il cavo di alimentazione e il cavo dati a ogni hard disk e richiudere il pannello superiore.



Ricerca del registratore NVR mediante Smart Tools

Se non si conosce l'indirizzo IP del registratore NVR, è possibile utilizzare l'applicazione Smart Tools che può rilevare automaticamente gli NVR Milesight collegati su una LAN.

Per trovare l'indirizzo IP di un registratore NVR, è possibile procedere come segue:



- 1 Inserire nella finestra di ricerca il numero di serie (SN) o l'indirizzo Mac per cercare il registratore NVR desiderato;
- 2 L'area visualizza un elenco di tutti gli NVR connessi; selezionare dall'elenco il registratore NVR desiderato e premere il pulsante 3 per modificarne i parametri (ad es. indirizzo IP, porta, maschera di rete, gateway e DNS). Cliccare nuovamente sul pulsante 3 per salvare le impostazioni (l'indirizzo IP di default del registratore NVR è 192.168.5.200)
- 4 Il pulsante Browser permette di accedere direttamente alla pagina web per la gestione del registratore NVR (il nome utente e la password di default del registratore NVR sono, rispettivamente, "admin" e "ms1234").

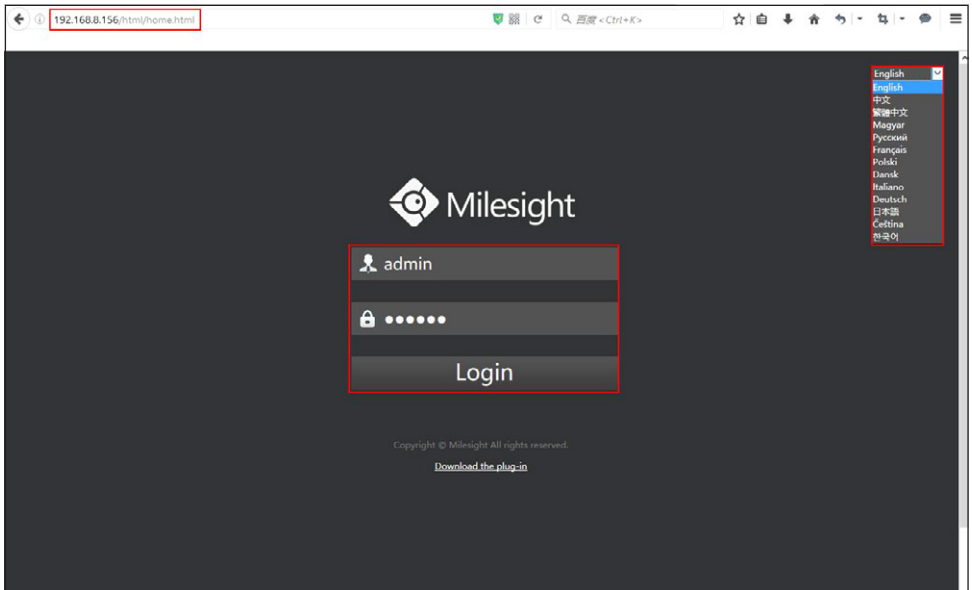
Nota: per ulteriori informazioni su Smart Tools, consultare il manuale d'uso.

Accesso al registratore NVR via WEB

Login

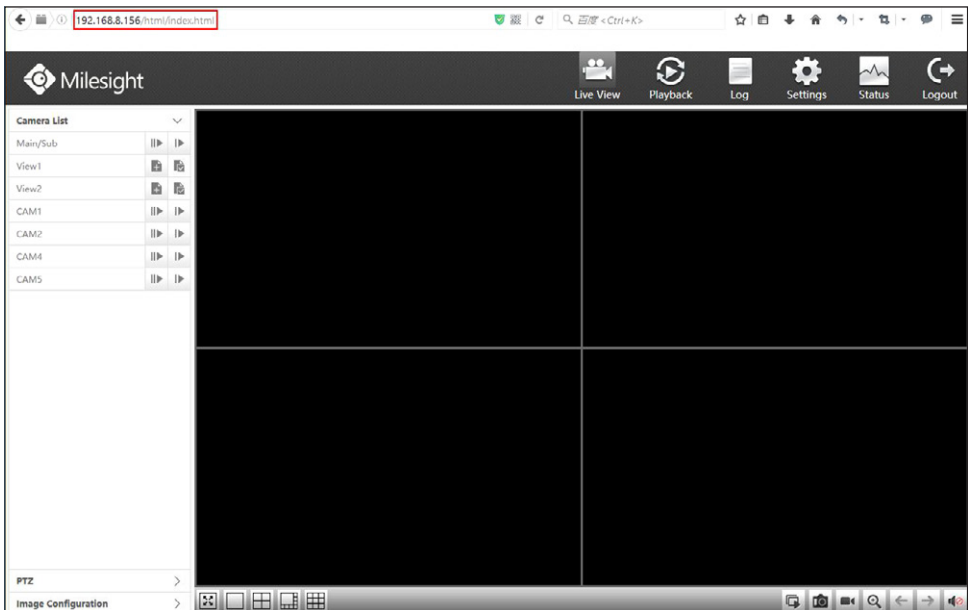
Se il registratore NVR, è connesso alla rete, è possibile accedervi via WEB tramite l'indirizzo IP.

1. Aprire Firefox o altro browser;
2. Nella barra degli indirizzi del browser, inserire l'indirizzo IP del dispositivo (ad esempio `http://192.168.8.156`);
3. Scegliere la lingua dell'interfaccia prima di digitare nome utente e password (nome utente e password di default del registratore NVR sono, rispettivamente, "admin" e "ms1234").
4. Premere il pulsante Login per accedere alla pagina Live View.



Note:

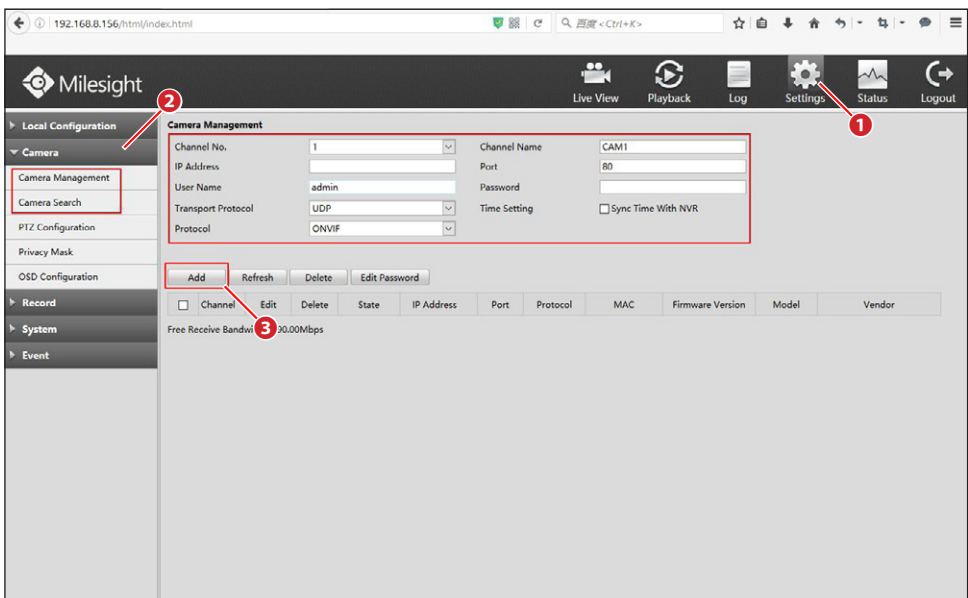
1. Se la porta HTTP non è 80 (valore di default), è necessario inserire il numero della porta dopo l'indirizzo IP (per esempio: `http://192.168.8.156:90`).
2. Se è la prima volta che si accede al registratore NVR via web, è necessario installare il plug-in, prima di eseguire l'installazione, chiudere il browser.




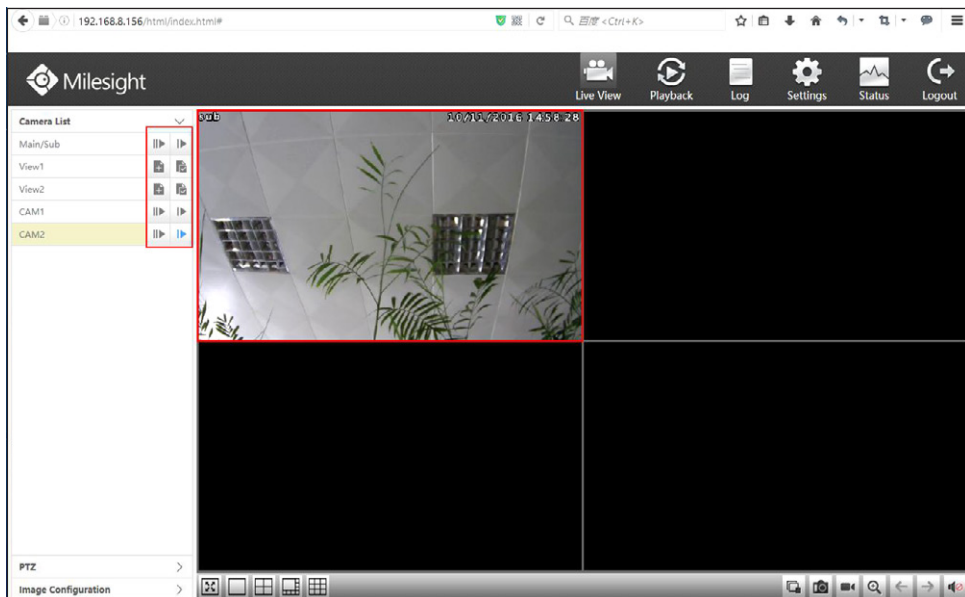
Live view (Finestra delle immagini riprese in diretta)

Una volta effettuato l'accesso al registratore NVR, per aggiungere telecamere alla vista, premere l'icona **1** ed accedere alla sezione per la configurazione delle telecamere premendo il pulsante **2**, inserire negli appositi spazi le informazioni necessarie al dispositivo per raggiungere le telecamere.

Premere il pulsante **3** per aggiungere la telecamera all'elenco.



Dopo aver aggiunto le telecamere, cliccare sul pulsante  per visualizzare l'anteprima (il nome utente e la password di default della telecamera di rete sono, rispettivamente, "admin" e "ms1234").



Procedura guidata di configurazione

Di default, la procedura guidata di configurazione inizia subito dopo l'accensione del videoregistratore. La procedura guidata di configurazione aiuta a impostare alcuni valori indispensabili a garantire il corretto funzionamento del dispositivo. È possibile scegliere se abilitare la procedura guidata all'avvio del dispositivo.

Nota: I dati inseriti in fase di configurazione guidata (wizard) potranno essere modificati in qualunque momento.

Per la configurazione, procedere come segue:

Wizard

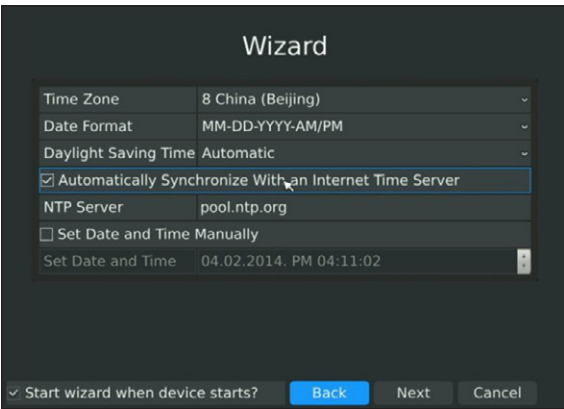
Admin Password	*****
<input checked="" type="checkbox"/> New Admin Password	
New Password	*****
Confirm	*****

Start wizard when device starts? Back **Next** Cancel

Credenziali di accesso

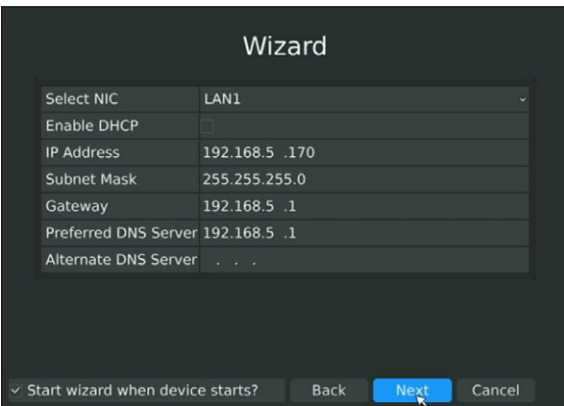
Inserire nome utente e password (nome utente predefinito 'admin', password 'ms1234').

Se si desidera modificare la password admin, inserire la nuova password.



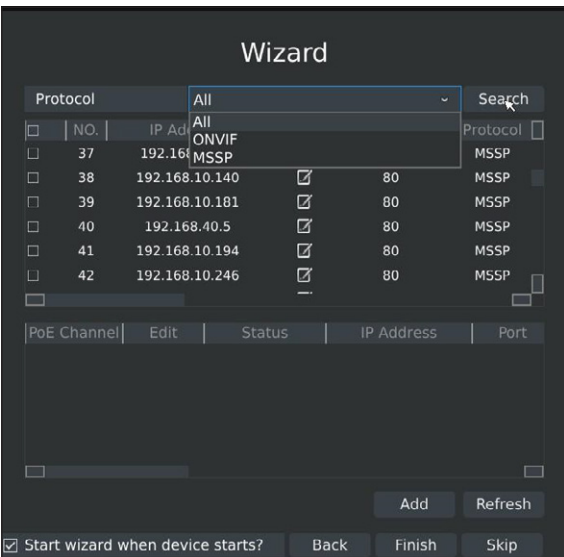
Impostazione di data e ora.

Selezionare il fuso orario (Time Zone) e il formato della data (Date Format) oppure inserire data e ora manualmente.



Impostazioni di rete.

Inserire indirizzo IP (IP Address), maschera di sottorete (Subnet Mask), Gateway e server DNS preferenziale (Preferred DNS Server).

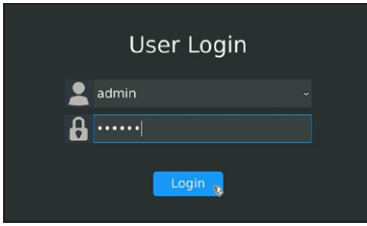


Aggiungere telecamere

Il dispositivo elenca tutte le telecamere connesse rilevate.

Selezionare le telecamere desiderate ed aggiungerle al dispositivo.

Premendo sull'icona è possibile modificare l'indirizzo IP della telecamera desiderata in modo da renderlo compatibile con quello dell'NVR.



Accesso (Login)

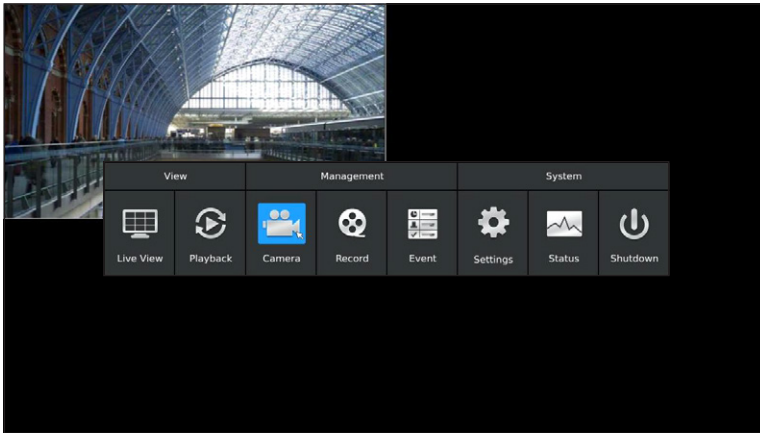
Inserire nome utente e password (per default "admin" e "ms1234").

CONFIGURAZIONI GENERALI DEL DISPOSITIVO

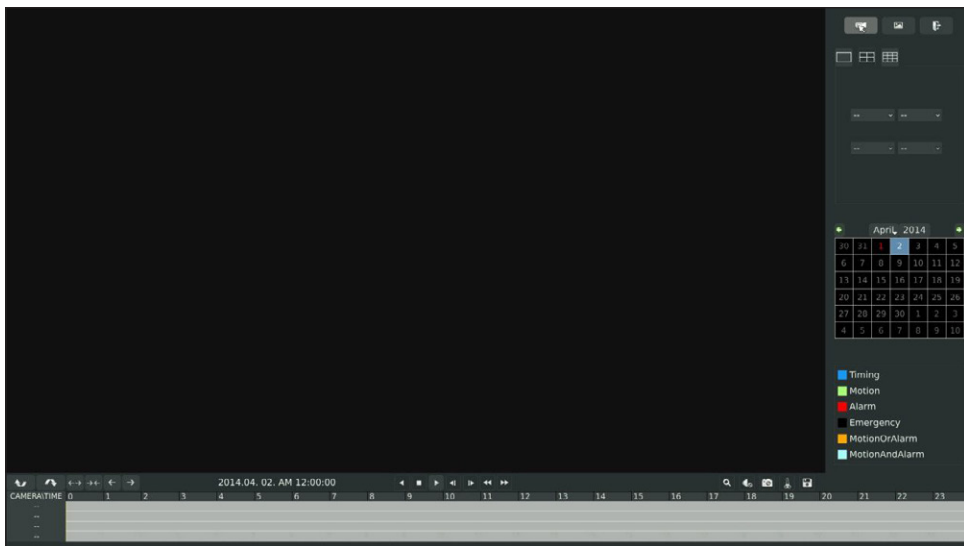
Live view (immagini in diretta)


Una volta inserite le credenziali di accesso al registratore NVR la schermata mostra le immagini riprese dalle telecamere connesse.

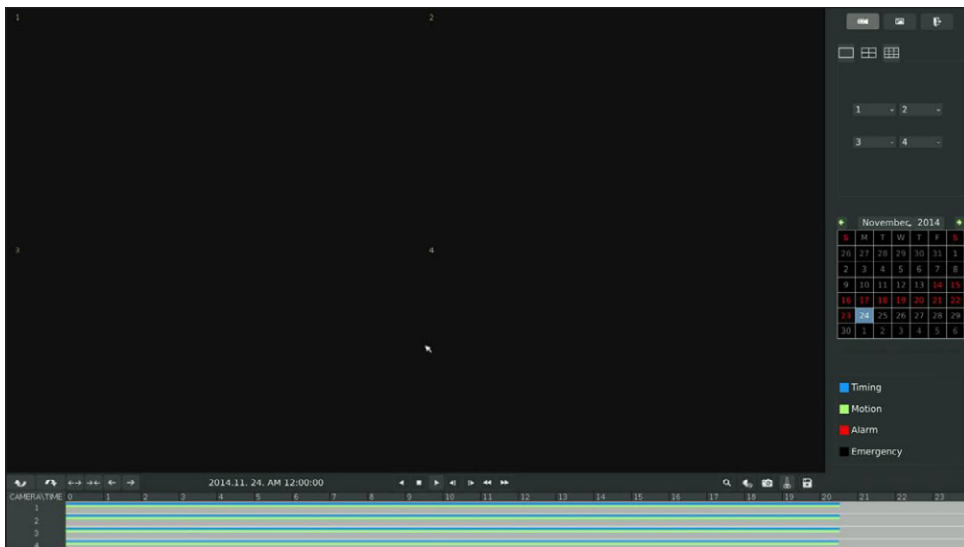
Premendo con il pulsante destro del mouse in un punto qualunque dello schermo, appare un menù contestuale mediante il quale si può accedere al menu di configurazione (vedi figura).



Playback (riproduzione)



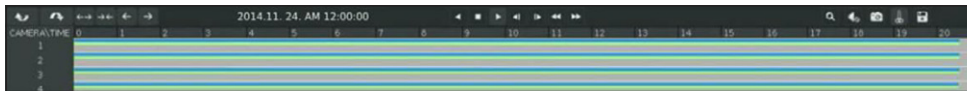
Selezionare il canale e il layout di riproduzione. Cliccare sulla data evidenziata in rosso quando ci sono file registrati nei canali selezionati (tipo e dati di registrazione verranno visualizzati come illustrato di seguito) e cliccare su  per avviare la riproduzione.



Note:

1. Il giorno evidenziato in rosso contiene file di registrazione; selezionare questa data per iniziare la riproduzione.
2. È possibile selezionare fino a 16 canali da riprodurre in modo sincrono.

Descrizione della barra degli strumenti di riproduzione video



La barra degli strumenti può visualizzare registrazioni multievento; il colore delle fasce indica il tipo di evento che si è verificato in un determinato periodo di registrazione:

Blu --- Fascia oraria Verde --- Movimento
Rosso --- Allarme Nero --- Emergenza

Nella barra sopra illustrata, ad esempio, è evidente che nel periodo di registrazione definito si sono verificati eventi legati al movimento e alla fascia oraria.

Legenda dei comandi

◀ Riavvolgimento

■ Stop

▶ Riproduzione

≡ Pausa

◀ Salto indietro

▶ Salto avanti

⏪ Indietro veloce

⏩ Avanti veloce

↶ 4 camere precedenti

↷ 4 camere successive

⏮ Timeline indietro

⏪ Timeline avanti

⏩ Ingrandimento timeline

⏴ Riduzione timeline

⏮ Timeline

2014.11.04. AM 11:43:00 Posizione di riproduzione

✂ Inizio taglio timeline

🔗 Fine taglio timeline

🔊 Audio On

🔇 Audio Off

📷 Istantanea

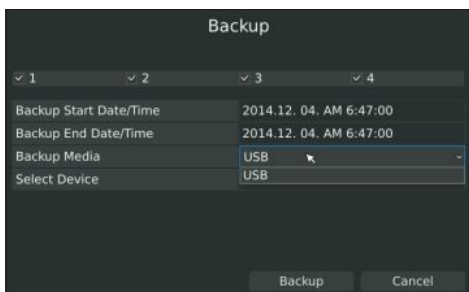
💾 Backup

Backup dei file video

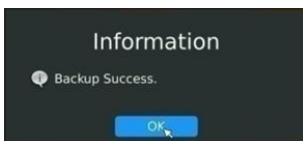
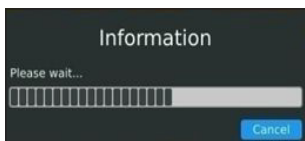
I file registrati possono essere salvati su vari dispositivi come, ad esempio, chiavette USB, HDD USB, masterizzatori USB, masterizzatori di CD/DVD, dischi eSATA, ecc.

Dall'interfaccia di riproduzione video, selezionare il canale e la data della registrazione della quale si desidera effettuare il backup

1. Sulla timeline, posizionarsi sull'ora di inizio della porzione di video della quale si desidera eseguire il backup.
2. Cliccare sull'icona ; l'icona cambia il suo aspetto in ad indicare l'inizio del taglio.
3. Posizionarsi sull'ora di fine della porzione di video della quale si desidera eseguire il backup.



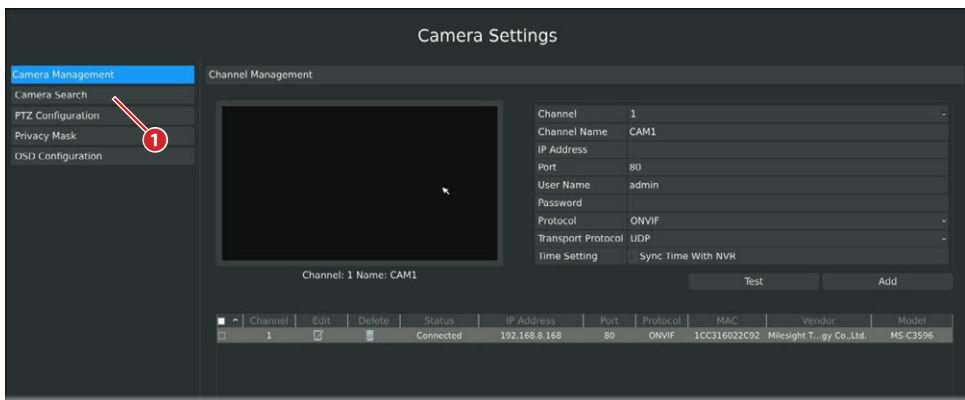
4. Cliccare sull'icona ; l'icona cambia il suo aspetto in ad indicare la fine del taglio.
5. Selezionare l'icona per accedere all'interfaccia di backup
6. Selezionare il supporto sul quale si desidera eseguire il backup e cliccare su [Backup].



Attendere il termine delle operazioni di backup.

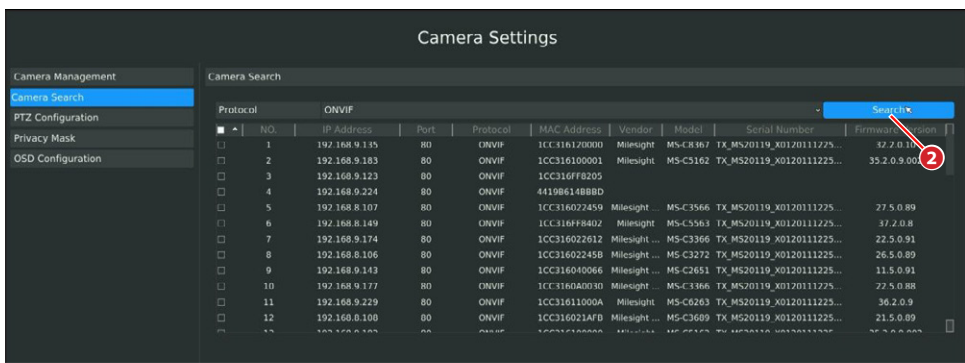
Configurazione delle telecamere

Verificare che le telecamere IP appartengano alla stessa rete del videoregistratore e che le impostazioni di rete del videoregistratore siano corrette.

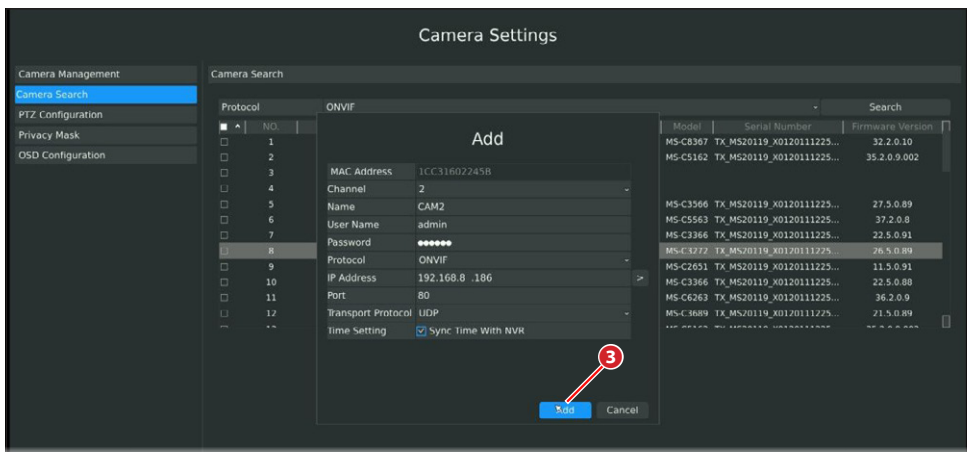


Aggiungere una telecamera IP usando l'interfaccia di ricerca

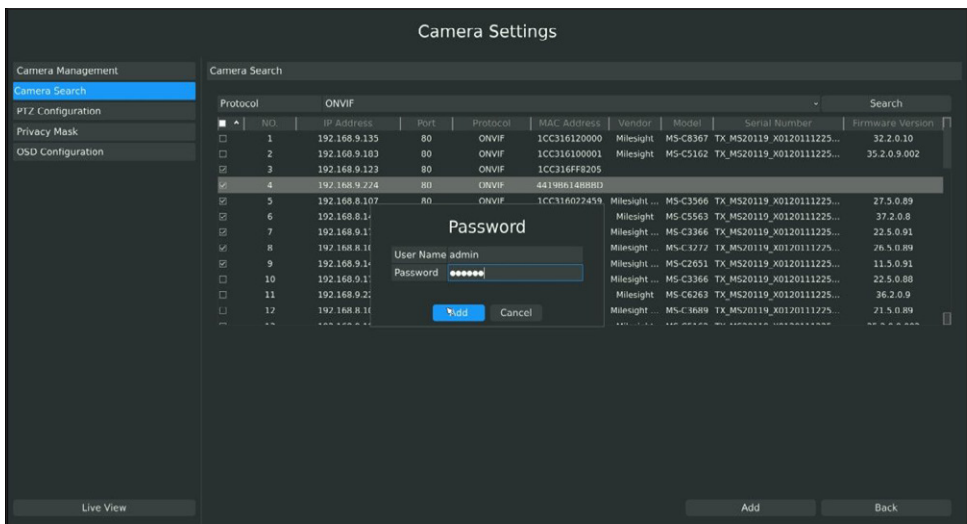
1. Selezionare il tab **1**.



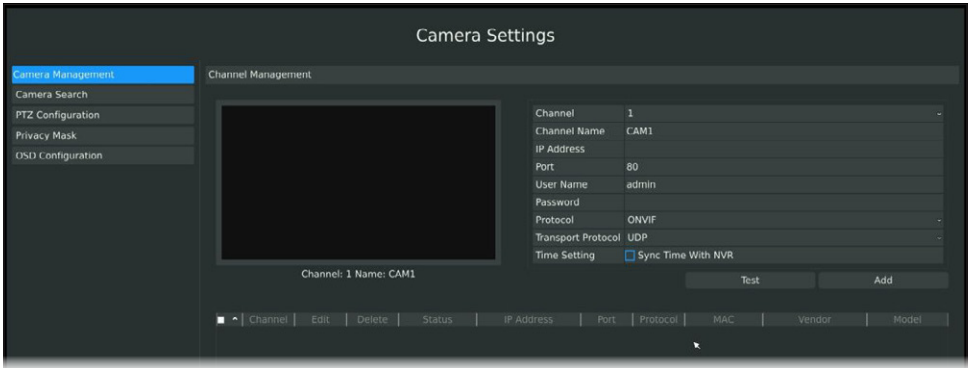
2. Premere il pulsante **2**.



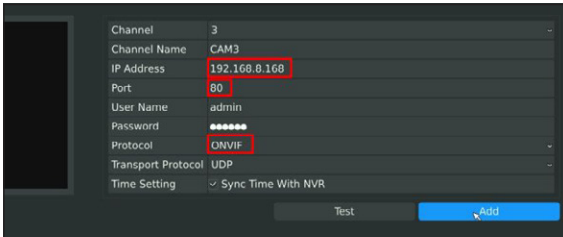
3. Cliccare due volte sul dispositivo che si intende aggiungere, inserire la password e premere il pulsante 3. In alternativa è possibile selezionare più telecamere IP che condividono la stessa password.



Aggiungere una telecamera IP manualmente

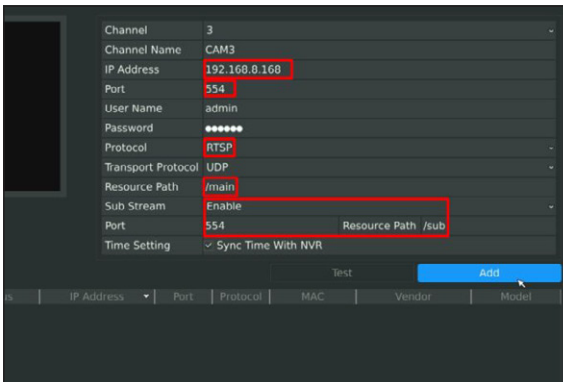


Selezionare un canale inattivo, compilare tutti i campi richiesti e cliccare sul pulsante [Add].
Ci sono 3 protocolli compatibili tra i quali scegliere:



Protocollo ONVIF

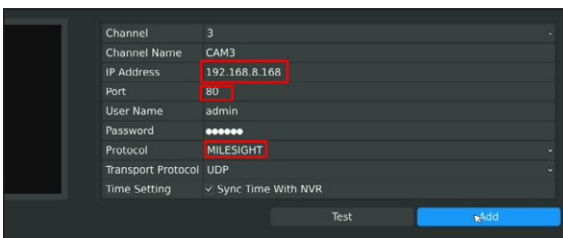
Permette di aggiungere qualunque telecamera IP compatibile ONVIF. I formati in dettaglio sono riportati in figura



Protocollo RTSP

Permette di aggiungere qualunque telecamera IP che utilizza il protocollo RTSP per la gestione dei flussi video. È necessario selezionare la porta 554 e inserire il "resource path" per la telecamera.

Per il dispositivo Milesight, ad esempio, il flusso principale del percorso risorse è "/main" e il flusso secondario è "/sub" (vedi figura).



Protocollo MSSP

Se la telecamera IP è un dispositivo Milesight è possibile selezionare questo protocollo per aggiungere le telecamere. (vedi figura).

Controllare lo stato della connessione

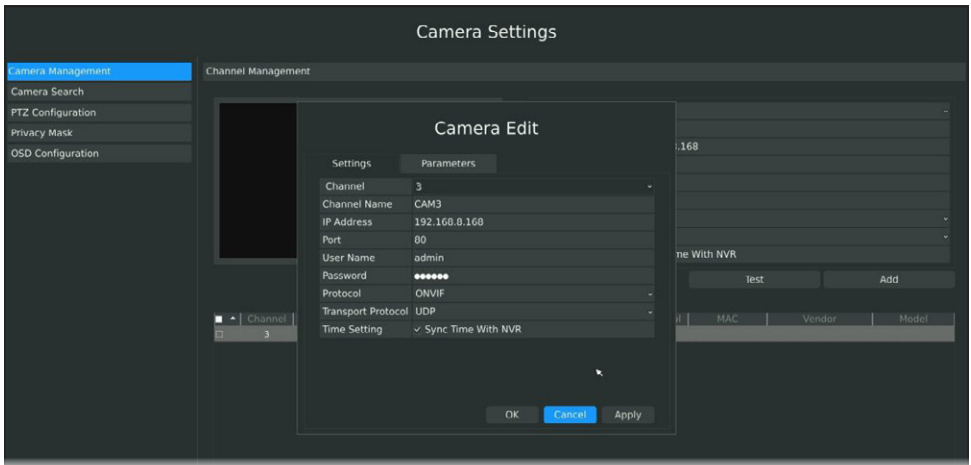
Channel	Edit	Delete	Status	IP Address	Port	Protocol	MAC	Vendor	Model
1	<input checked="" type="checkbox"/>		Connected	192.168.5.168	80	ONVIF	1cc3160a014e	Milesight T...gy Co.,Ltd.	MS-C3366
2	<input checked="" type="checkbox"/>		Connected	192.168.5.169	80	ONVIF	1cc316020046	Milesight T...gy Co.,Ltd.	MS-C3658
3	<input checked="" type="checkbox"/>		Connected	192.168.5.153	80	ONVIF	1cc31601024f	Milesight T...gy Co.,Ltd.	MS-C2662
5	<input checked="" type="checkbox"/>		Connected	192.168.5.191	80	ONVIF	1cc316020059	Milesight T...gy Co.,Ltd.	MS-C3658
6	<input checked="" type="checkbox"/>		Connected	192.168.5.192	80	ONVIF	1cc31602002b	KAREL	NBE-213RM-24
7	<input checked="" type="checkbox"/>		Connected	192.168.5.152	80	ONVIF	1cc316080009	Milesight T...gy Co.,Ltd.	MS-C3662

Dopo l'aggiunta dei canali IP, premere il pulsante [Refresh]; lo stato della connessione [state] verrà visualizzato come [connected]. In caso contrario, è necessario controllare la connessione alla rete e se nome utente e password sono corretti.

Modificare la configurazione di una telecamera

Per accedere nuovamente alle informazioni sul canale, indirizzo IP, password, ecc...


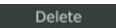
Selezionare il canale e premere su oppure cliccare due volte sul canale desiderato.

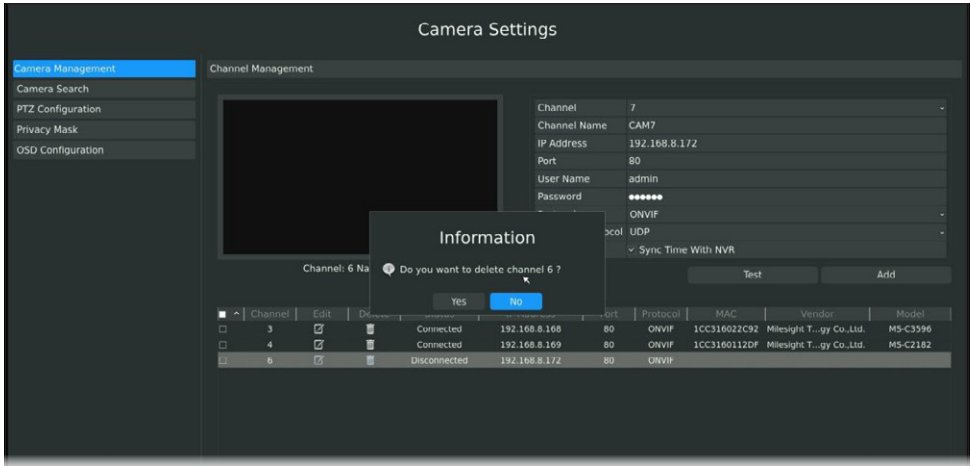


Modificare i parametri della telecamera come desiderato e confermare le scelte premendo il pulsante "Apply".

Nota: per default, il nome utente e la password sono quelli predefiniti, la porta è 80 e il protocollo di trasporto è UDP.

Rimuovere una o più telecamere


Premere sull'icona  per cancellare la telecamera selezionata oppure selezionare diversi dispositivi e poi premere su  per rimuoverli dall'elenco.



Configurare la registrazione

Preparazione dell'hard disk

Verificare che il videoregistratore abbia installato e inizializzato l'hard disk.

Accedere all'interfaccia di gestione del disco seguendo il percorso  System Settings ⇒ Disk Management.



Verificare che l'HDD abbia spazio sufficiente.

Per permettere al sistema di sovrascrivere i dati più "vecchi" registrati sull'hard disk, impostare l'opzione [Recycle Mode] su ON.



Scegliere la modalità di registrazione [Record Mode]

Accedere al menu della modalità di registrazione seguendo il percorso:

Main menu ⇒ Record ⇒ Record Mode.

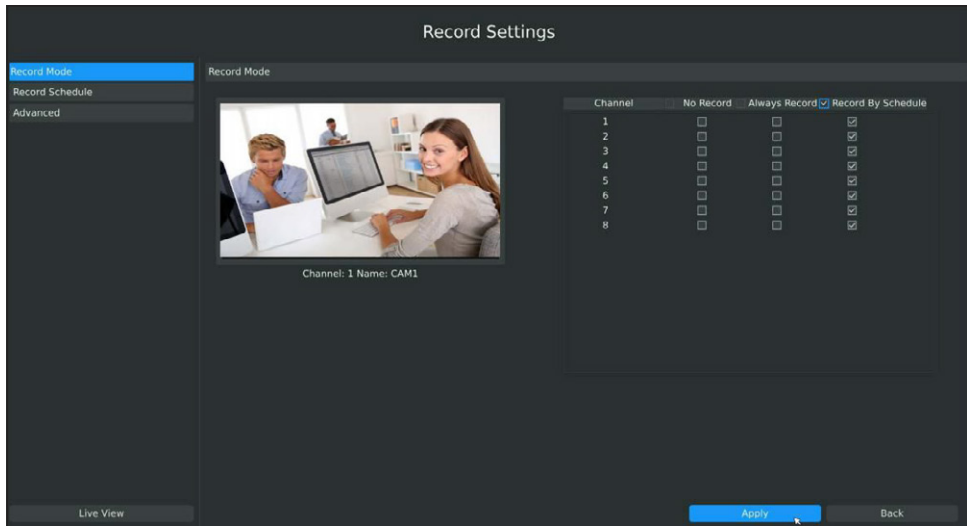
Per ogni canale è possibile scegliere una delle seguenti modalità di registrazione:

Nessuna registrazione [No Recording],

Registra sempre [Always record],

Registrazione programmata [Record by schedule].

Premere sul pulsante Applica [Apply] per confermare le scelte.



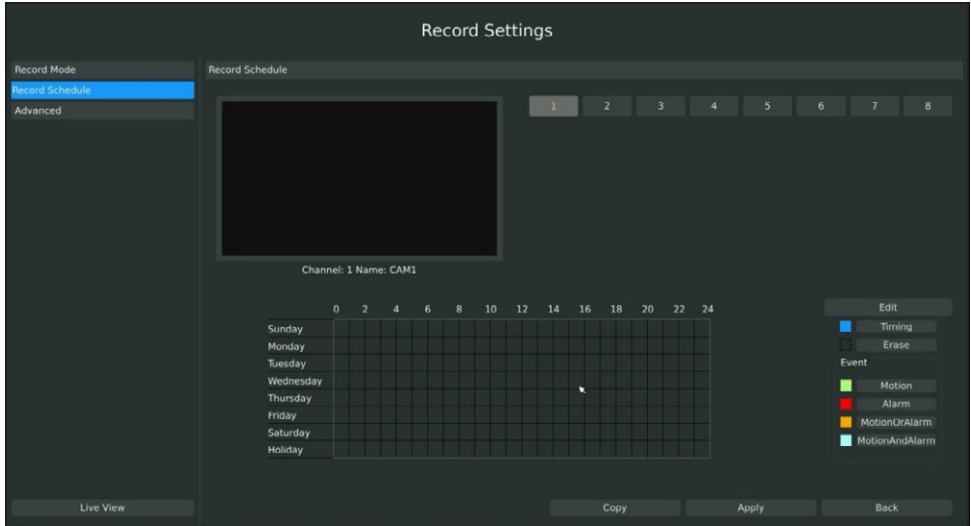
Impostare il programma di registrazione [Record Schedule]

Accedere al menu della programmazione di registrazione seguendo il percorso:

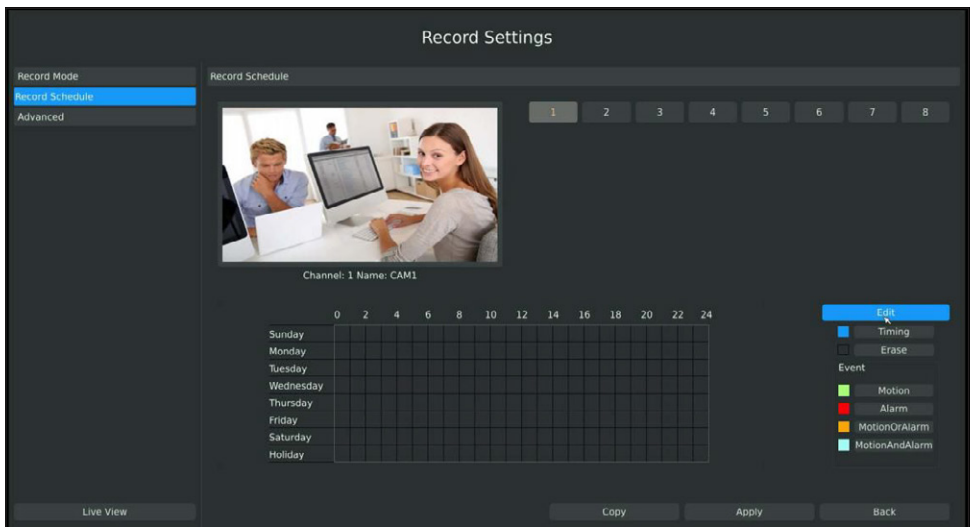
Main menu ⇒ Record ⇒ Record Schedule.

Nota: i giorni previsti sono Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/Saturday/Holiday.

Il programma festivo è prioritario rispetto a quello degli altri giorni.

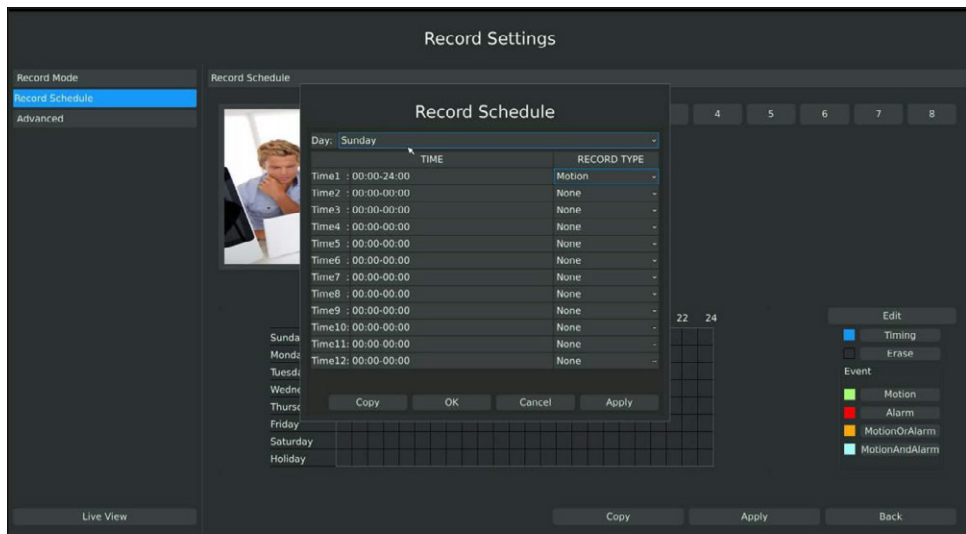


Selezionare il canale desiderato (ad es. Channel 1) e cliccare sul pulsante Modifica [Edit].



Selezionare un giorno dal menu a tendina [Day] e scegliere [Record Type] per impostare il periodo di registrazione (è possibile impostare fino a 12 periodi: ad es. 01:00 - 05:00 per nessuna registrazione; 06:00 - 18:00 per la registrazione legata alla fascia oraria; 19:00 - 21:00 per la registrazione legata al movimento; 22:00 - 24:00 per la registrazione legata agli allarmi).

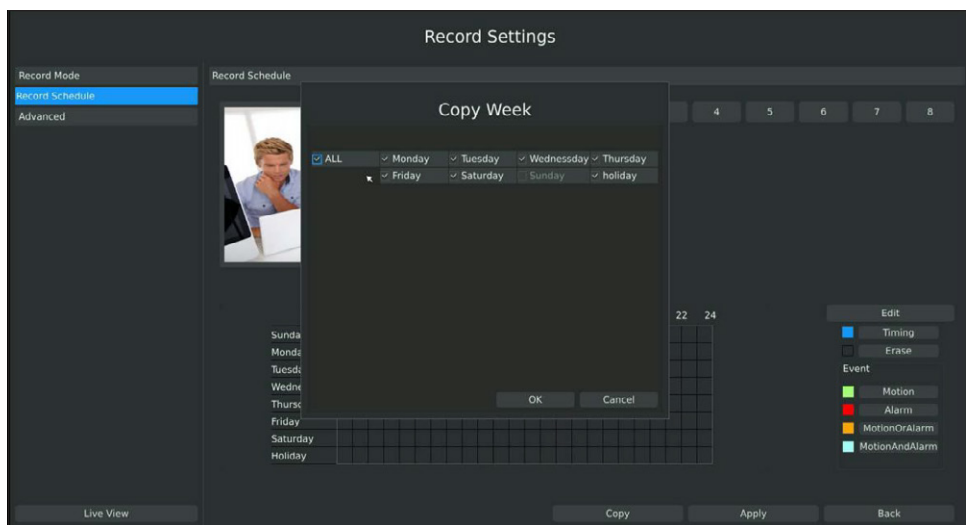
Nota: i periodi di tempo non possono sovrapporsi.



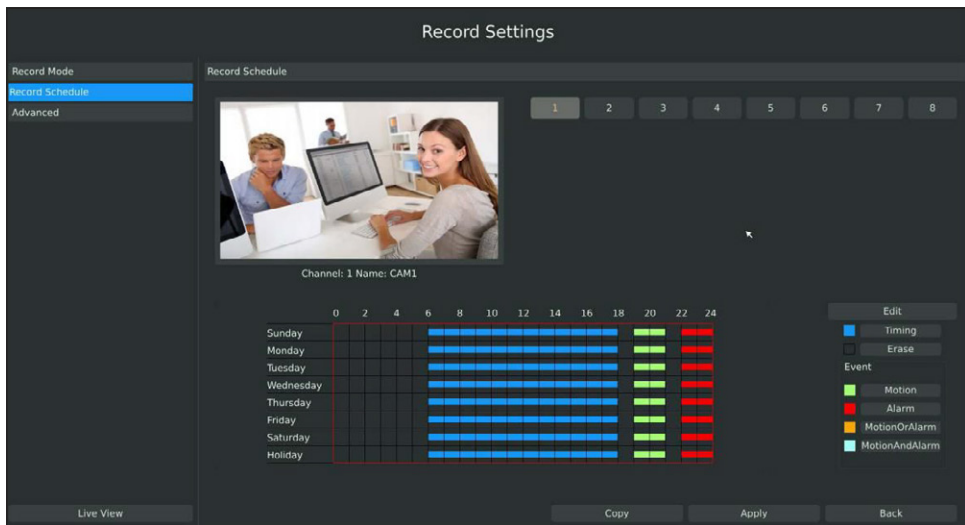
Copiare la programmazione su altri giorni della settimana

Premere il pulsante Copia [Copy] per copiare le impostazioni su altri giorni della settimana.

Premere sul pulsante Applica [Apply] per confermare le scelte.

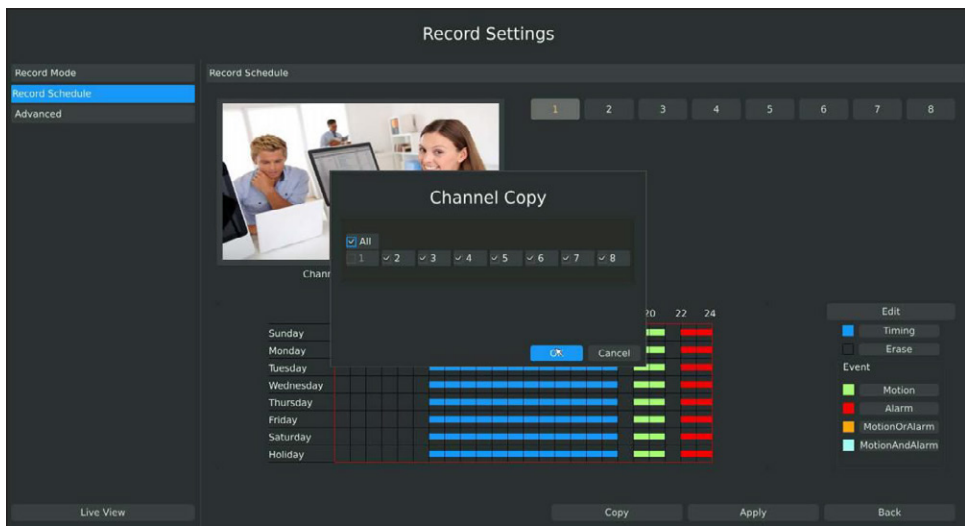


Al termine della programmazione, il canale viene visualizzato come mostrato in figura.



Copiare le impostazioni di registrazione su altri canali

Selezionare [Copy] per copiare le stesse impostazioni su altri canali, scegliere il/i canali sui quali eseguire la copia e cliccare su [OK] per salvare la configurazione.



Premere sul pulsante Applica [Apply] per confermare le scelte o Indietro [Back] per tornare al menù precedente.

Programmazione della registrazione mediante trascinamento del mouse

Accedere al menu della programmazione di registrazione seguendo il percorso:

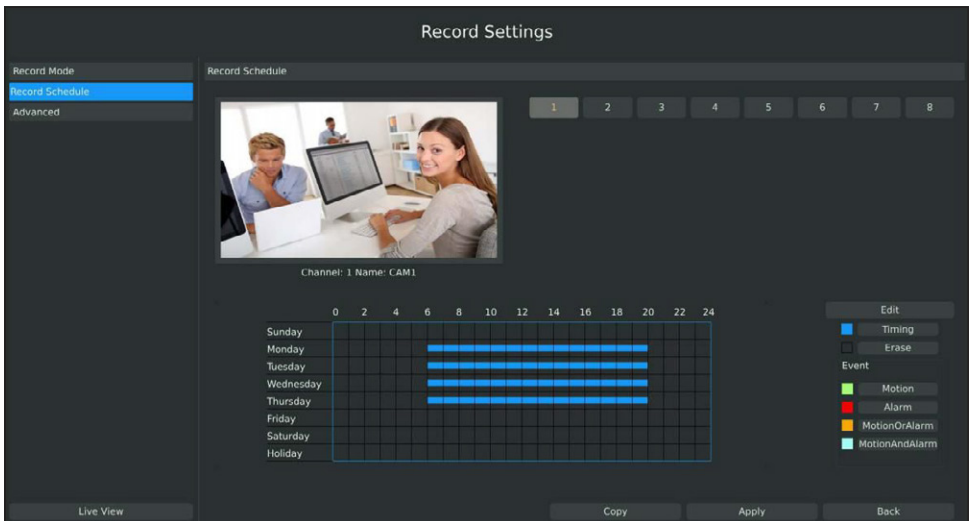
Main menu ⇒ Record ⇒ Record Schedule.

Selezionare il canale che si desidera programmare.



1 Selezionare la modalità di registrazione desiderata e "tracciare" con il mouse sul grafico ore/giorni della settimana, l'area nella quale si vuole sia eseguita la registrazione.

Premere sul pulsante Applica [Apply] per confermare le scelte.

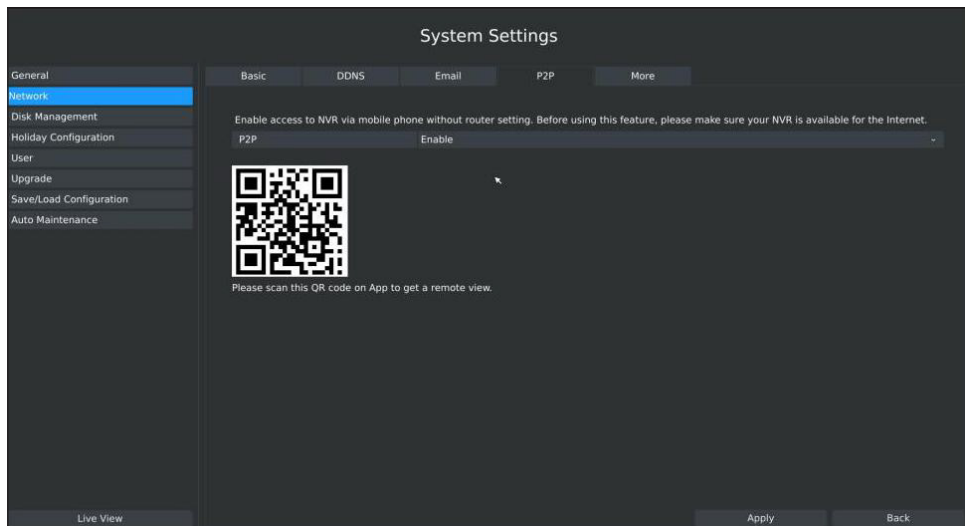


Selezionare [Copy] per copiare le stesse impostazioni su altri canali, scegliere il/i canali sui quali eseguire la copia e cliccare su [OK] per salvare la configurazione.

CONFIGURAZIONE P2P

Utilizzando l'app M-VMS è possibile accedere alla vista "live" dell'NVR dal proprio dispositivo mobile. Il servizio P2P permette la connessione al NVR senza eseguire le configurazioni di port-forwarding sul router.

Fare clic con il tasto destro sulla vista dal vivo (Live) e scegliere MENU ⇒ SYSTEM ⇒ NETWORK ⇒ P2P per visualizzare la schermata in figura.



1. Scegliere "Attiva" [Enable] dal menu a tendina "P2P";
2. Premere il pulsante "Applica" [Apply] per confermare le impostazioni.

NOTA: Per motivi di sicurezza, se il firmware del dispositivo che si sta utilizzando corrisponde a quelli elencati di seguito, la funzione P2P deve essere registrata prima di utilizzarla.

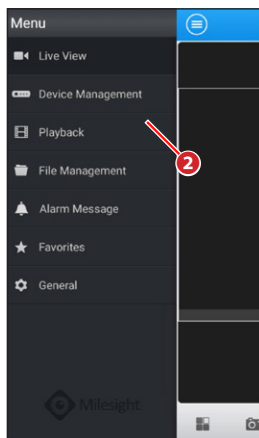
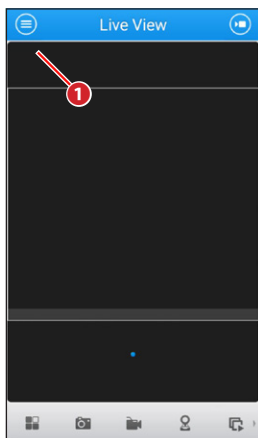
Se la versione del firmware è 71.7.0.5-R13 o superiore o la versione del firmware è 72.7.0.5-r13 o superiore, è necessario contattare il proprio rivenditore per chiedere assistenza.

In caso contrario, è sufficiente salvare le informazioni inserite sulla pagina "P2P".

Se l'operazione non va a buon fine, è necessario controllare questi suggerimenti:

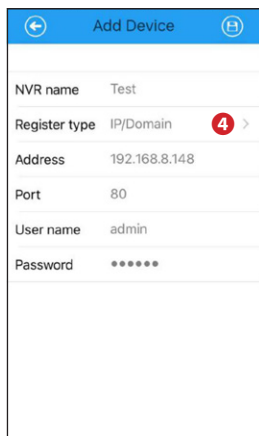
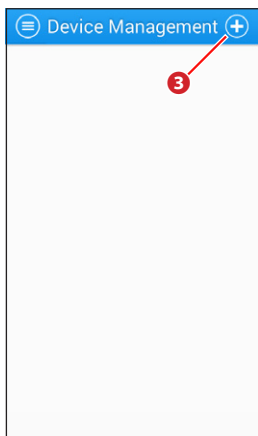
Errore visualizzato	Possibile soluzione
Errore di rete [Network Error]	Controllare lo stato della connessione alla rete
Registrazione fallita [Register failed]	MAC address non registra il P2P
Errore sconosciuto [Unknown Error]	Contattare l'assistenza

Dopo l'abilitazione, è possibile aggiungere l'NVR sull'App M-VMS scansionando il codice QR sulla pagina "P2P", o inserendo l'indirizzo MAC manualmente.



Scaricare dagli store di riferimento l'applicazione M-VMS e successivamente avviare l'applicazione.

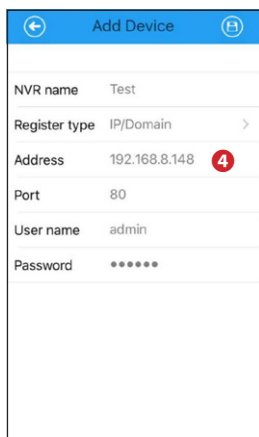
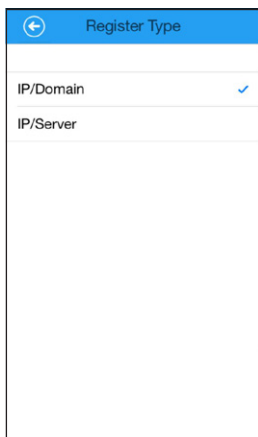
Toccare il pulsante **1** e successivamente il pulsante **2**.



Toccare il pulsante **3** per accedere alla finestra che permette di aggiungere un nuovo dispositivo all'elenco di quelli che possono essere raggiunti dal dispositivo mobile.

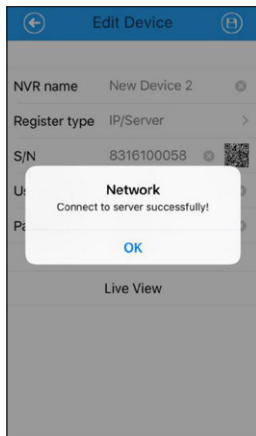
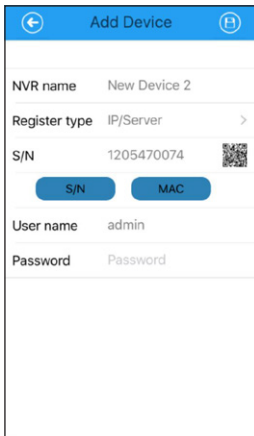
Assegnare un nome al dispositivo.

Toccare lo spazio **4** per scegliere il tipo di registrazione alla rete.

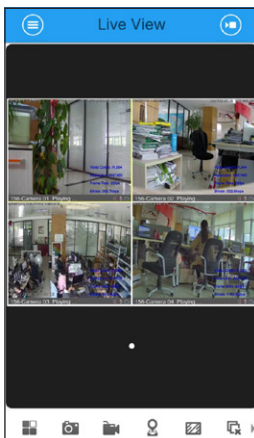


Scegliendo IP/Domain è necessario compilare manualmente i campi successivi.

Il campo **5** può contenere un IP locale, pubblico o DDNS.

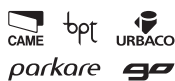


Se si è scelta l'opzione IP/Server, selezionare il pulsante MAC e scansionare il QR code dell'NVR per stabilire la connessione.



Italiano - Manuale FA00768-IT - ver. 1 - 04/2017 - © CAME S.p.A.
I contenuti del manuale sono da ritenersi suscettibili di modifica in qualsiasi momento senza obbligo di preavviso.

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www.came.com

NETWORK VIDEO RECORDER

FA00768-EN



MS-N5016-UH — MS-N5032-UH




MS-N7016-UH — MS-N7032-UH



MS-N8032-UH — MS-N8064-UH

GENERAL PRECAUTIONS

-  Important safety instructions: READ CAREFULLY
- Installation, programming, commissioning and maintenance must only be carried out by qualified, expert staff and in full compliance with the applicable law.
- Always cut off the mains power when doing cleaning and maintenance jobs.
- This product must only be used for the purpose for which it was designed.
- The manufacturer declines all liability for any damage as a result of improper, incorrect or unreasonable use.

DESCRIPTION

Digital network video recorders with 4, 8, 16, 32 inputs.

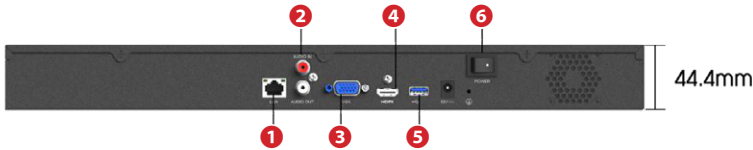
Technical data

Type	MS-N5016-UH MS-N5032-UH	MS-N7016-UH MS-N7032-UH	MS-N8032-UH MS-N8064-UH
IP video inputs (number of channels)	16/32	16/32	32/64
IP audio inputs (number of channels)	16/32	16/32	32/64
HDMI video outputs	1	1	2
VGA video outputs	1	1	2
Audio inputs/outputs (RCA)	1/1	1/1	1/1
Video compression of recording	H.265 / H.264	H.265 / H.264	H.265 / H.264
Recording frame rate (fps)	1 - 25	1 - 25	1 - 25
SATA ports available	2	4	8
RJ45 Ethernet ports	1x 100/1000 M	2x 10/100/1000 M	2x 10/100/1000 M
RS-485 serial ports	-	2	2
USB 2.0 ports	2	2	2
USB 3.0 ports	1	1	1
Alarm inputs	-	16	16
Alarm outputs	-	4	4
Consumption without hard disk (W)	≤ 15	≤ 15	≤ 35
Operating temperature (°C)	-10 to +55	-10 to +55	-10 to +55
Operating humidity (%)	10 to 90	10 to 90	10 to 90
Dimensions (mm)	440 x 251 x 44.4	440 x 320 x 66.8	440 x 420 x 88.2
Bandwidth (Mbps)	160/320	160/320	320
Recording resolutions supported	8MP(UHD-2160P)/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF		

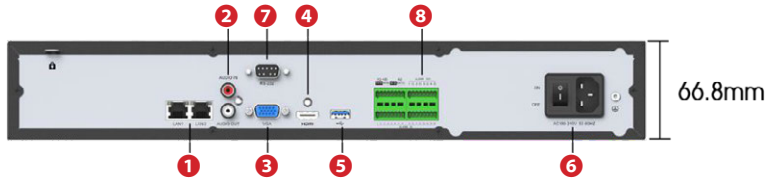
Type		MS-N5016-UH MS-N5032-UH	MS-N7016-UH MS-N7032-UH	MS-N8032-UH MS-N8064-UH
Maximum number of synchronised playback channels	25fps@D1	16/32	16/32	32/64
	25fps@720P	16/32	16/32	32
	25fps@1080P	16	16	16
	25fps@3MP	10	10	10
	25fps@4MP	8	8	8
	25fps@2160P (UHD)	4	4	4
	25fps@2160P (4K)	4	4	4

Description of parts

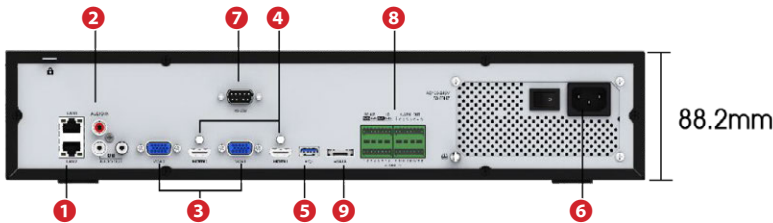
Rear panel MS-N5016-UH - MS-N5032-UH



Rear panel MS-N7016-UH - MS-N7032-UH




Rear panel MS-N8032-UH - MS-N8064-UH

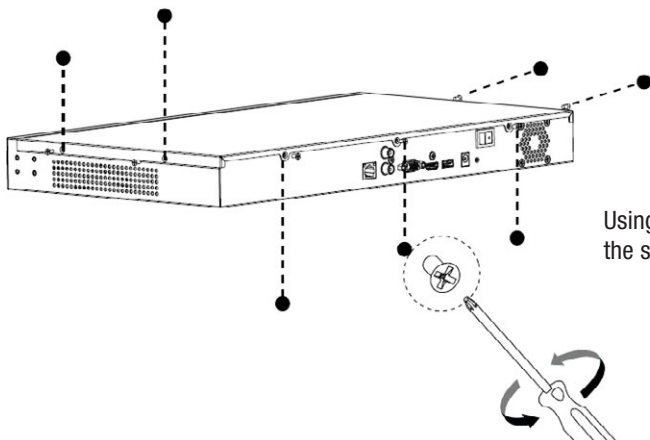


- 1 LAN port,
- 6 Power supply,
- 2 Audio inputs / outputs
- 7 Connector for keypad,
- 3 VGA video output,
- 8 Alarm inputs and outputs,
- 4 HDMI video output,
- 9 eSATA connector.
- 5 USB 3.0 port,

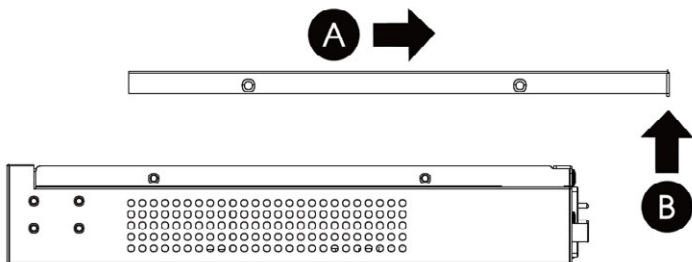
INSTALLATION OF HARD DISKS

 Disconnect the electric power supply while fitting the hard disks

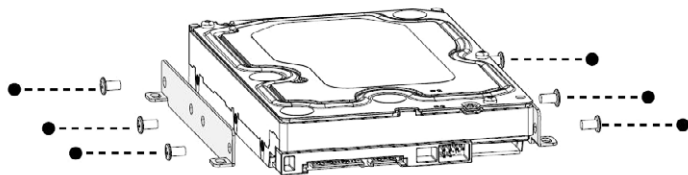
Installing hard disks on models: MS-N5016-UH - MS-N5032-UH.



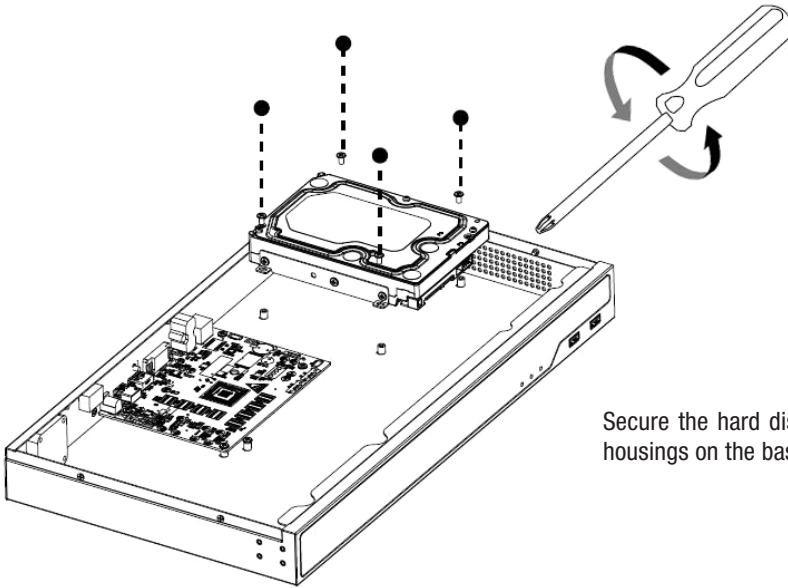
Using a Philips screwdriver, remove the screws from the rear panel.



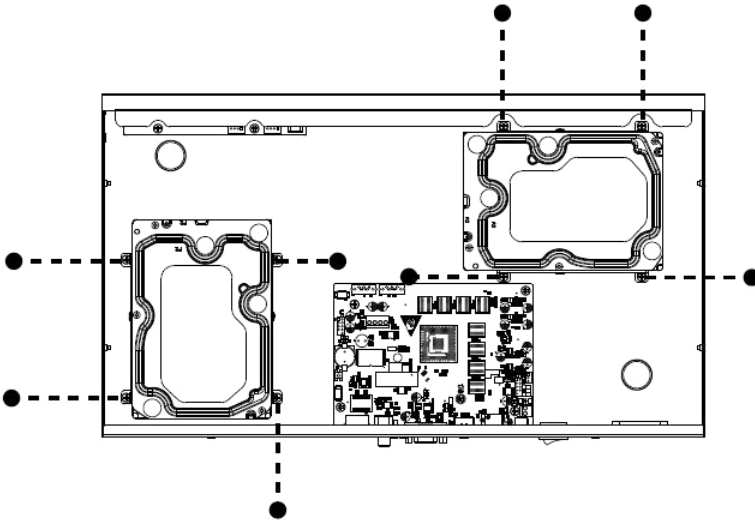
Slide back the top panel of the device and lift it off.



Fit the brackets onto the hard disk as shown in the diagram.

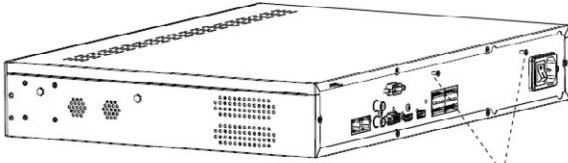


Secure the hard disks in the relevant housings on the base of the device.

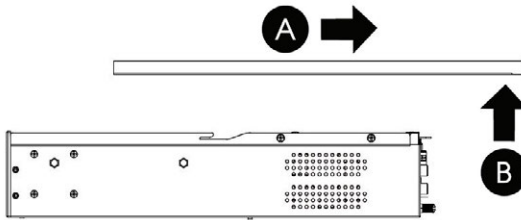


Check that all the screws are properly tightened, connect the power cable and the data cable to each HDD. Close the top panel up again.

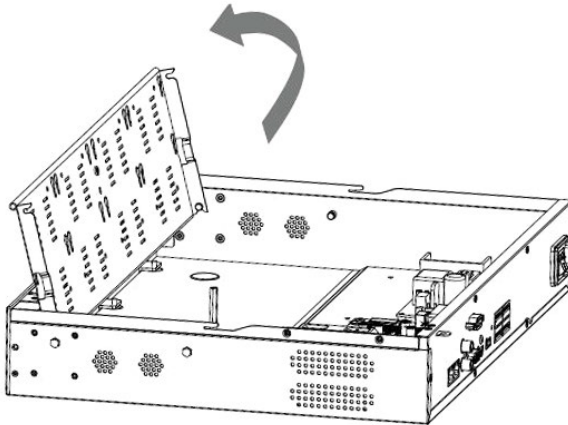
Installing hard disks on models: MS-N7016-UH - MS-N7032-UH.



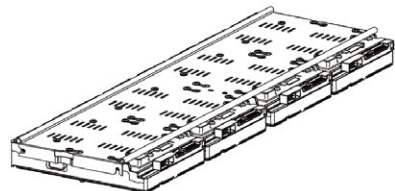
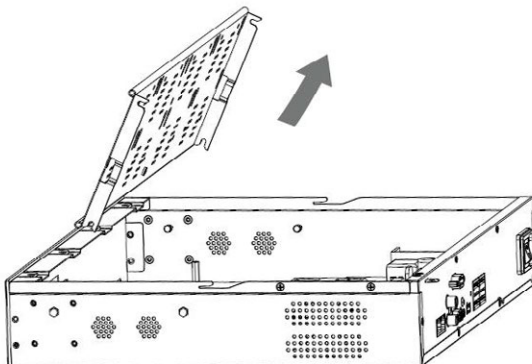
Using a Philips screwdriver, remove the screws from the rear panel.



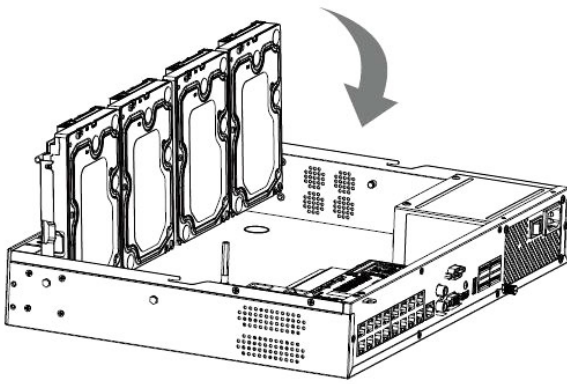
Slide back the top panel of the device and lift it off.



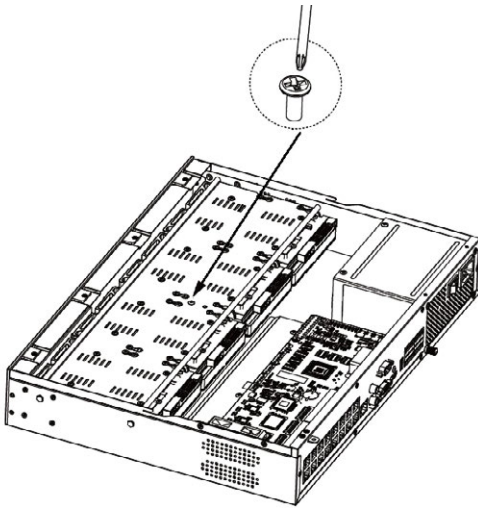
The bay for the hard disks can be removed as shown in the diagram.



Insert the hard disks into the relevant slots.



Replace the bay in its housing.

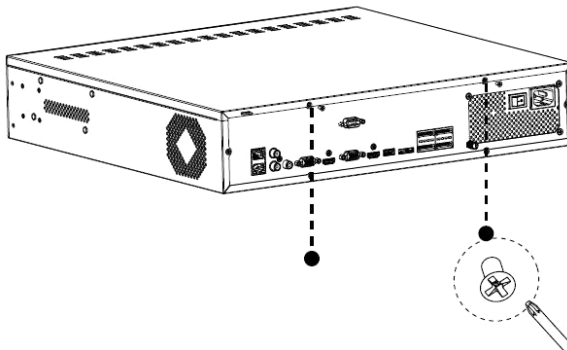


Check that the 16 screws in the HDD bracket are securely tightened.

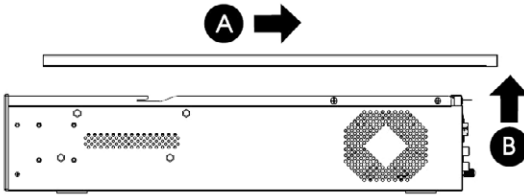
Fasten the bracket to the device with the central screw.

Connect the power cable and the data cable to each hard disk and close the top panel up again.

Installing hard disks on models: MS-N8032-UH - MS-N8064-UH.

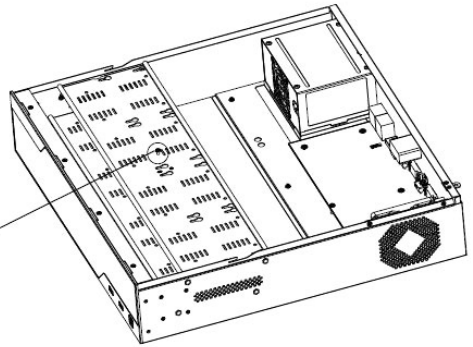
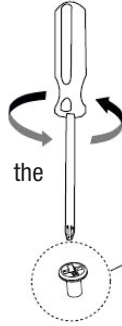


Using a Philips screwdriver, remove the screws from the rear panel.

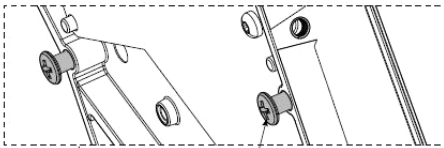
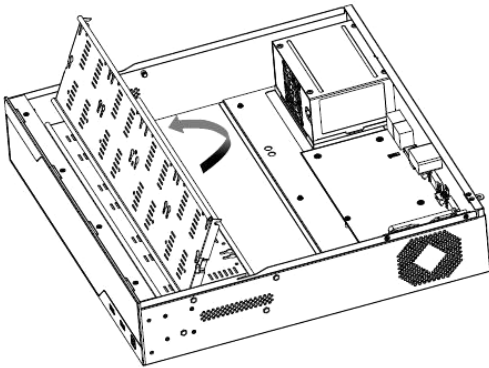


Slide back the top panel of the device and lift it off.

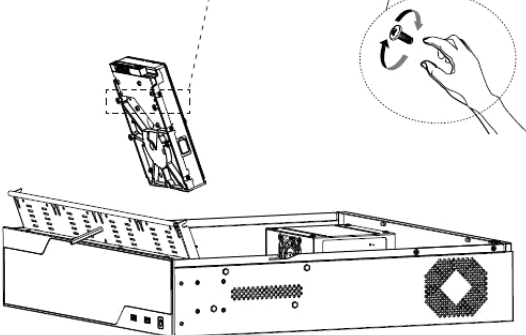
Remove the central screw from the hard disks bay bracket.

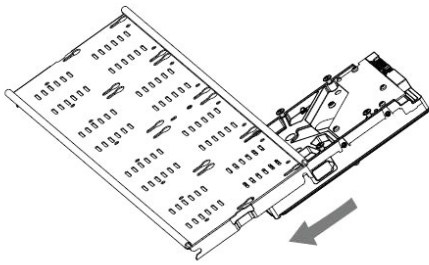


The bay can be opened as shown in the diagram.

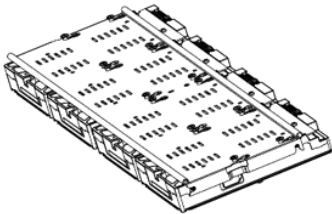
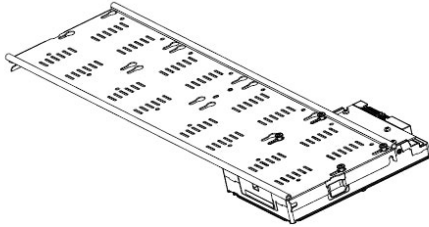


Screw four screws into the relevant housings on each hard disk, taking care to let the head of the screws protrude from the holes by about 4 mm.

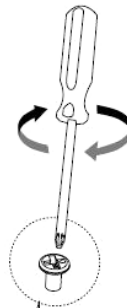
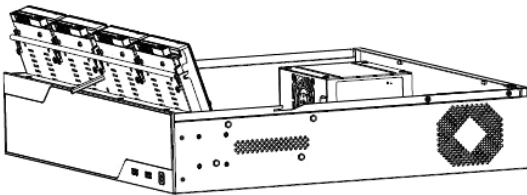




Put the hard disks onto the bracket, inserting the protruding screw heads into the relevant housings; slide the hard disk in as shown in the diagram and then tighten the screws.



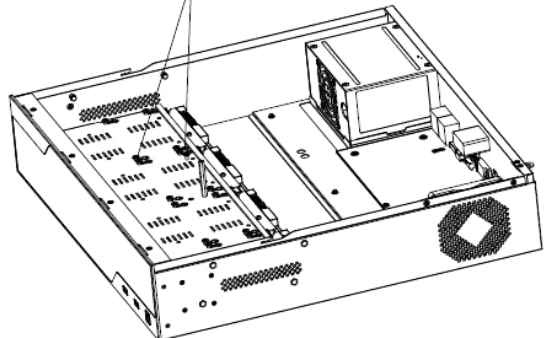
Insert all the hard disks into the relevant slots, and replace the bay in its housing.



Check that the screws in the HDD bracket are securely tightened.

Fasten the bracket to the device with the central screw.

Connect the power cable and the data cable to each hard disk and close the top panel up again.

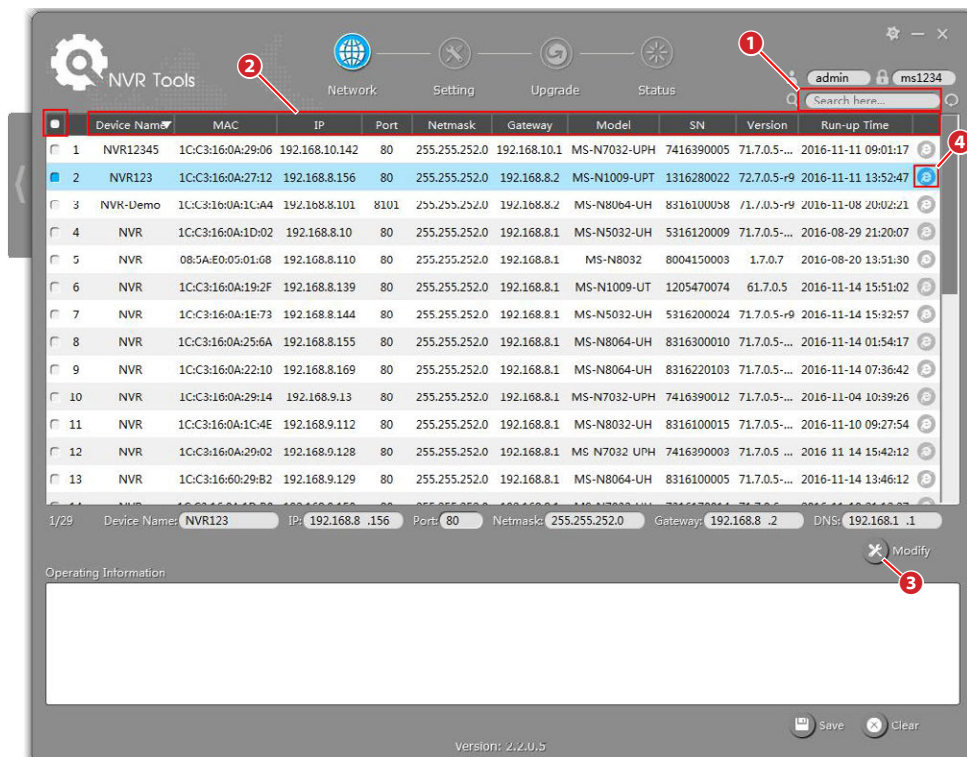


ACCESSING THE NVR RECORDER

Searching for the NVR recorder using Smart Tools

If you don't know the NVR recorder's IP address, you can use the Smart Tools application to automatically detect Milesight NVRs connected to a LAN.

To find the IP address of an NVR, do the following:



- 1 In the search window enter the serial number (SN) or Mac address to search for the NVR you want;
- 2 This area displays a list of all the NVRs connected; select the NVR you want from the list and press button 3 to change its parameters (e.g. IP address, port, netmask, gateway and DNS). Click button 3 again to save the settings (the NVR's default IP address is 192.168.5.200)
- 4 The Browser button gives direct access to the NVR management web page (the NVR's default user name and password are, respectively, "admin" and "ms1234").

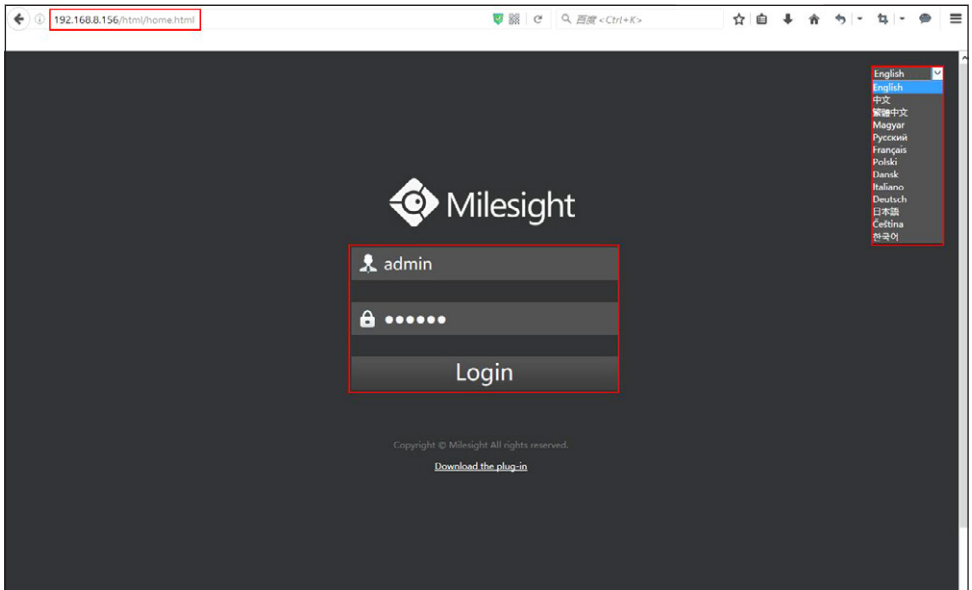
Note: for further information on Smart Tools, refer to the user manual.

Accessing NVR via WEB

Login

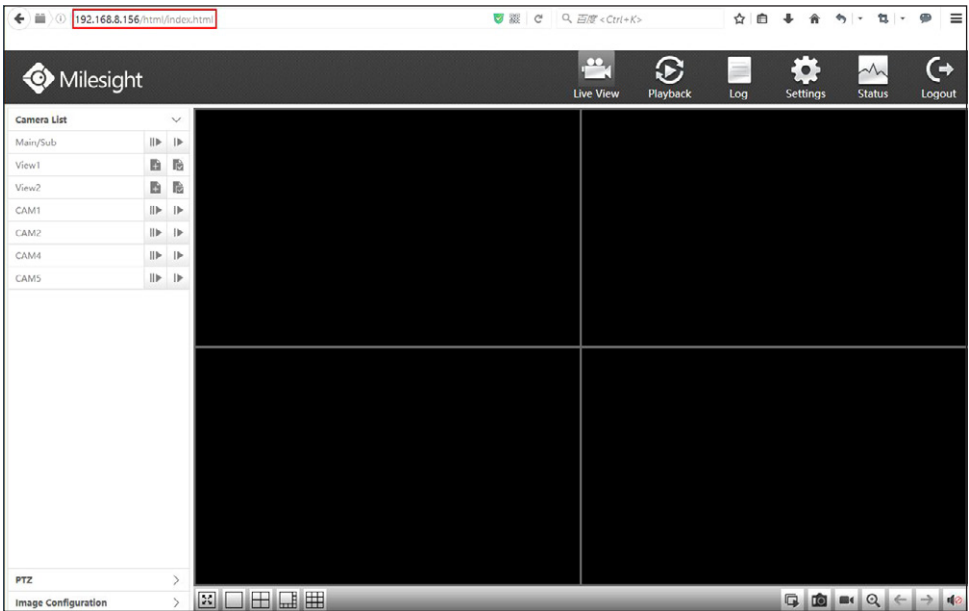
If the NVR is connected to the network, it is possible to access it via WEB using the IP address.

1. Open Firefox or another browser;
2. In the browser address bar, enter the IP address of the device (for example `http://192.168.8.156`);
3. Choose the interface language before keying in the user name and password (the NVR's default user name and password are, respectively, "admin" and "ms1234").
4. Press the Login button to access the Live View page.



Notes:

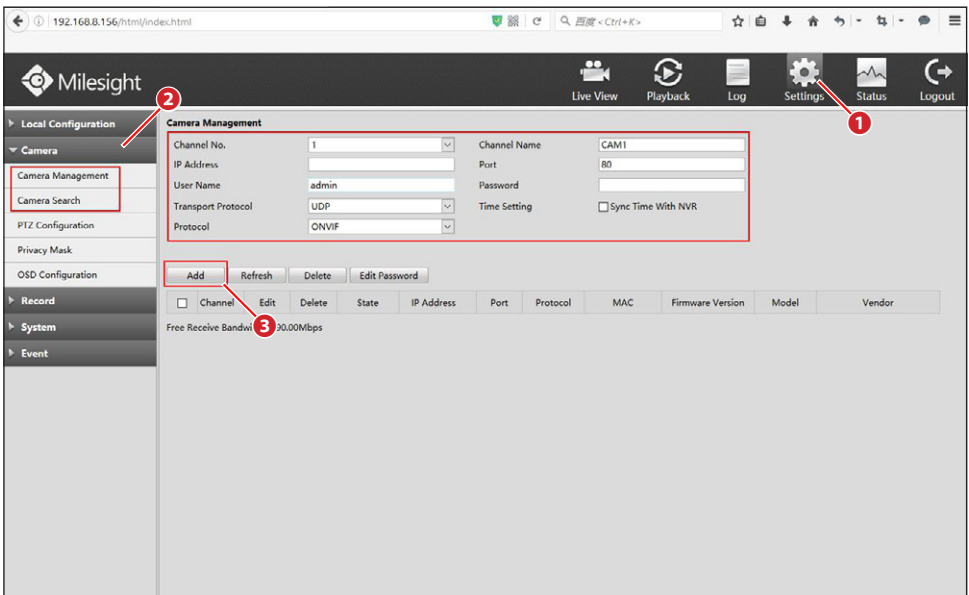
1. If the HTTP port is not 80 (default value), the port number must be entered after the IP address (for example: `http://192.168.8.156:90`).
2. If it is the first time the NVR is being accessed via web, the plugin must be installed; before carrying out installation, close the browser.



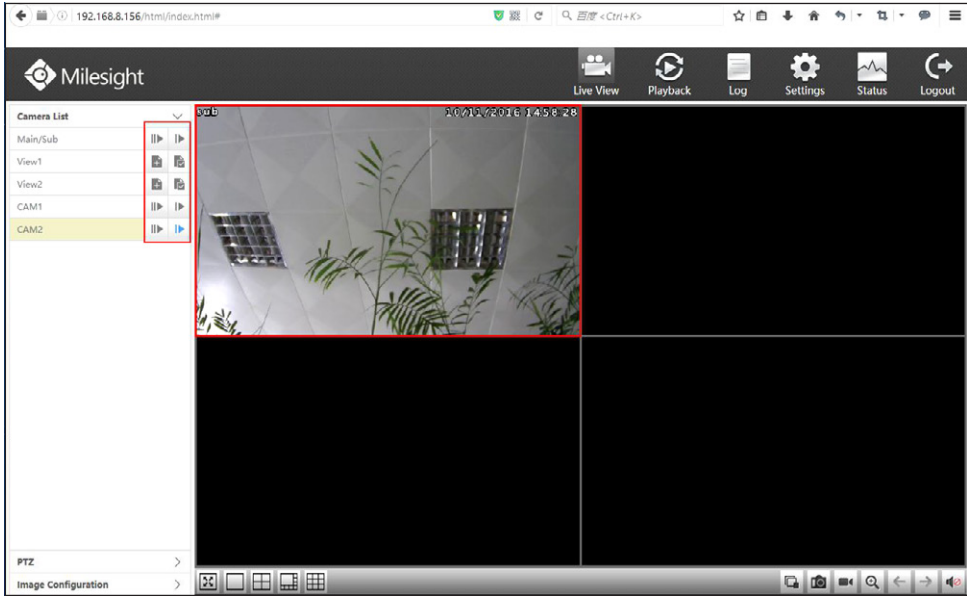
Live view (Window of live images)

Once access is made to the NVR, to add video cameras to the view, press icon **1** and access the video camera setup section by pressing button **2**, then, in the relevant spaces, enter the information needed by the device to reach the video cameras.

Press button **3** to add the video camera to the list.



After adding the video cameras, click on button  to display the preview (the network video camera's default user name and password are, respectively, "admin" and "ms1234").

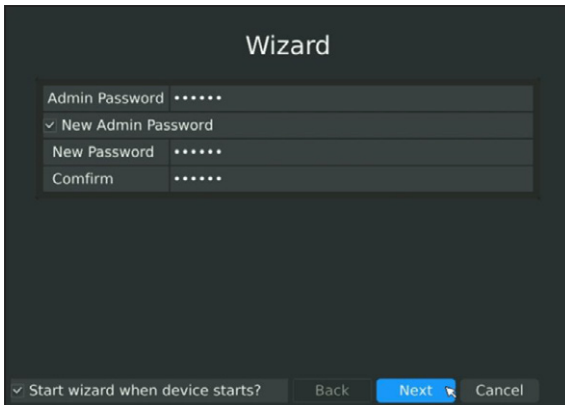


Guided setup procedure

By default the guided setup procedure starts as soon as the video recorder is switched on. The guided setup procedure helps to set some values essential for ensuring the correct operation of the device. You can choose whether or not to enable the guided procedure when the device starts up.

Note: The data entered during the guided setup (Wizard) can be changed at any time.

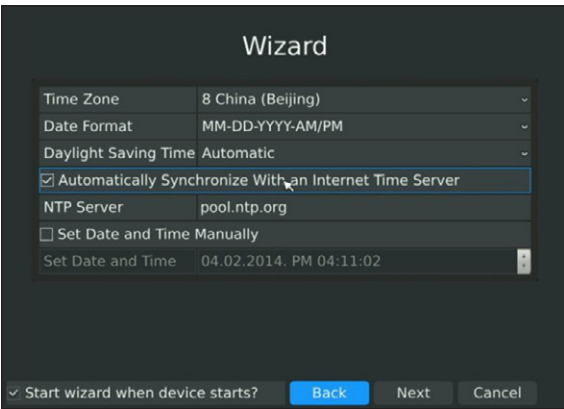
For setup, proceed as follows:



Access credentials

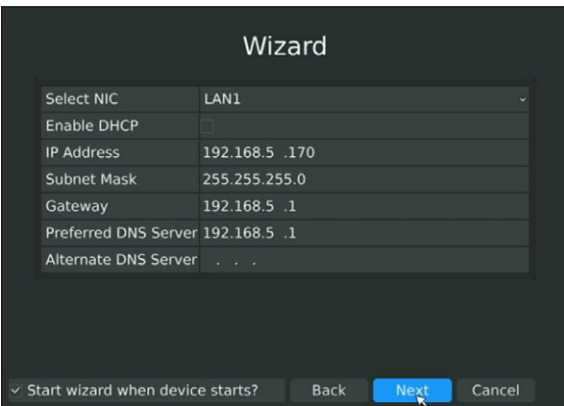
Enter user name and password (pre-set user name 'admin', password 'ms1234').

If you want to change the admin password, enter the new password.



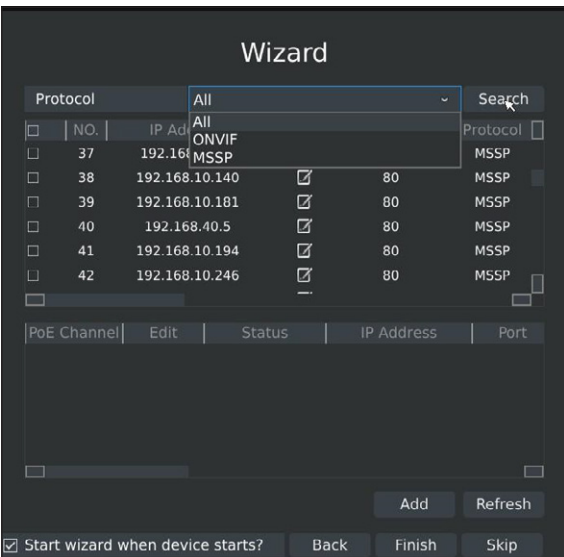
Setting date and time.

Select the time zone and the date format or enter date and time manually.



Network settings.

Enter IP Address, Subnet Mask, Gateway and Preferred DNS Server.

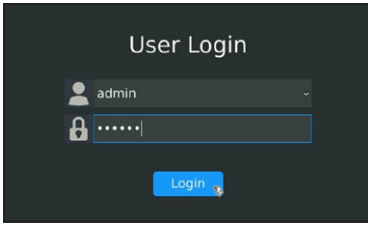


Adding video cameras

The device lists all the connected video cameras detected.

Select the video cameras you want and add them to the device.

By pressing icon you can edit the IP address of the video camera you want so as to make it compatible with that of the NVR.



Access (Login)

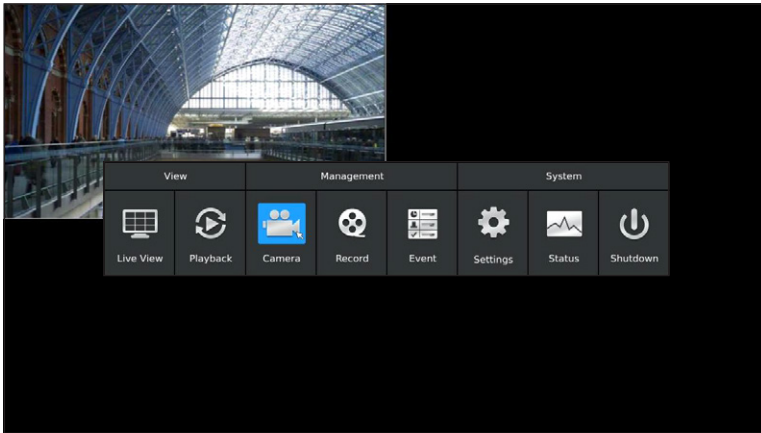
Enter user name and password (by default "admin" and "ms1234").

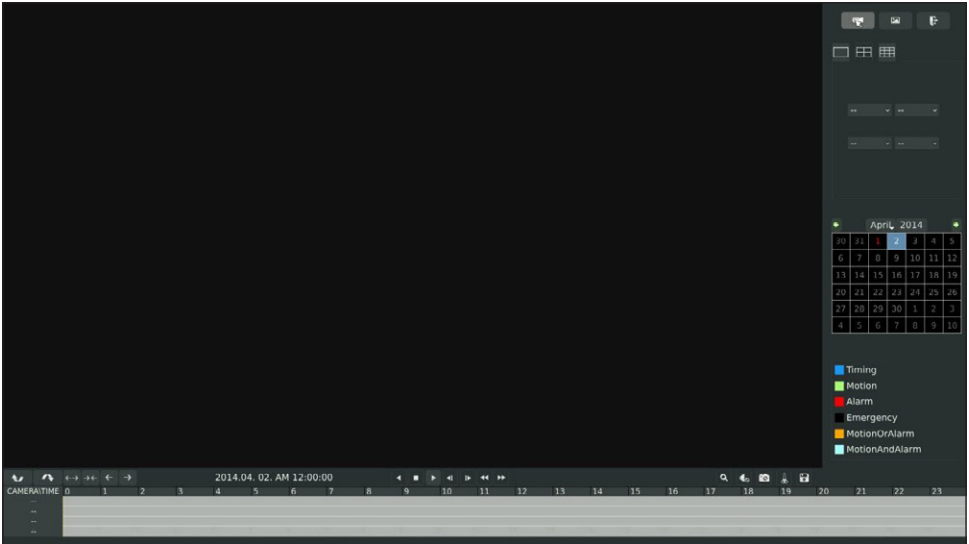
GENERAL SETTINGS OF DEVICE

Live view (live images)

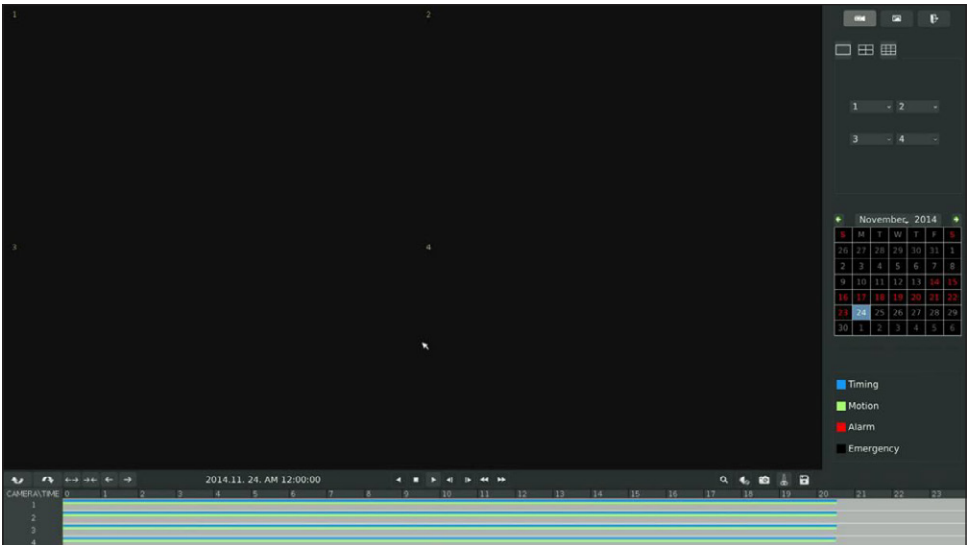
Once the NVR access credentials have been entered, the screen will show the images shot by the video cameras connected.

When you right-click with the mouse anywhere on the screen, a contextual menu appears via which you can access the settings menu (see screenshot).





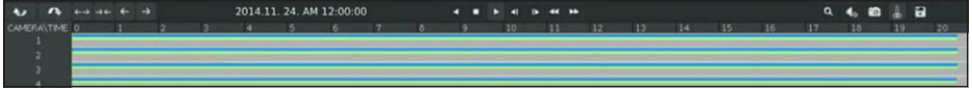
Select the playback layout and channel. Click on the data highlighted in red when there are recorded files on the selected channels (recording type and information will be displayed as shown below) and click on **▶** to start playback.



Notes:

1. The day highlighted in red contains recorded files; select this date to start the playback.
2. You can select up to 16 channels to play back simultaneously.

Description of video playback tool bar



The tool bar can display multi-event recordings; the colour of the bands indicates the type of event that occurred in a specified recording period:

- Blue --- Time slot
- Green --- Motion
- Red --- Alarm
- Black --- Emergency

In the bar shown above, for example, it is evident that in the recording period specified there were events linked to motion and to the time slot.

Key to commands

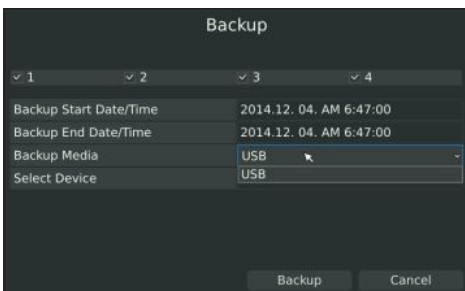
- Reverse
- Stop
- Playback
- Pause
- Skip back
- Skip forward
- Rewind
- Fast forward
- 4 previous cameras
- 4 subsequent cameras
- Timeline back
- Timeline forward
- Expand timeline
- Reduce timeline
- Timeline
- Playback position
- Start timeline cut
- Finish timeline cut
- Audio On
- Audio Off
- Instant
- Backup

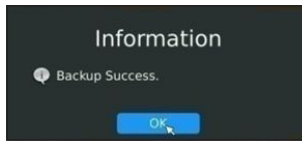
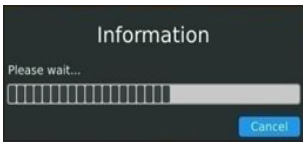
Backing up video files

Recorded files can be saved on various devices such as, for example, USB and HDD USB memory sticks, USB writers, CD/DVD writers, eSATA disks, etc.

From the video playback interface, select the channel and the date of the recording which you want to make a backup of

1. On the timeline, go to the start time of the video section which you want to back up.
2. Click on icon ; the icon changes its appearance to to show the start of the cut.
3. Go to the end time of the video section which you want to back up.
4. Click on icon ; the icon changes its appearance to to show the end of the cut.
5. Select icon to access the backup interface
6. Select the support on which you want to carry out the backup and click on [Backup].

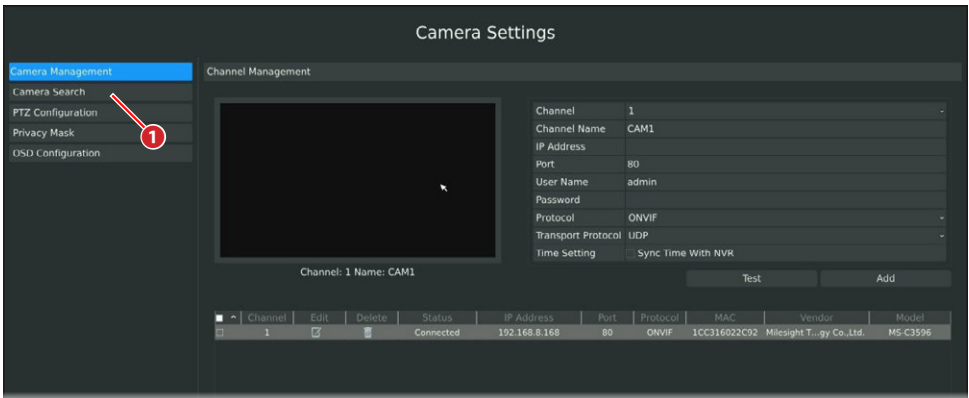




Wait for the end of the backup operations.

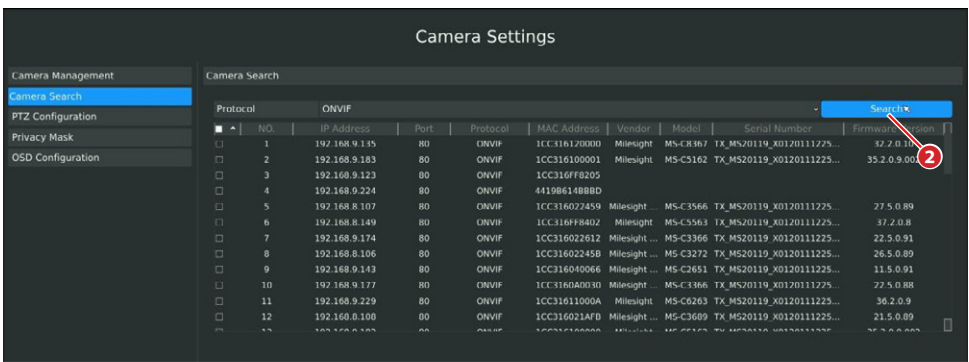
Camera settings

Check that the IP video cameras belong to the same network as the video recorder and that the video recorder's network settings are correct.

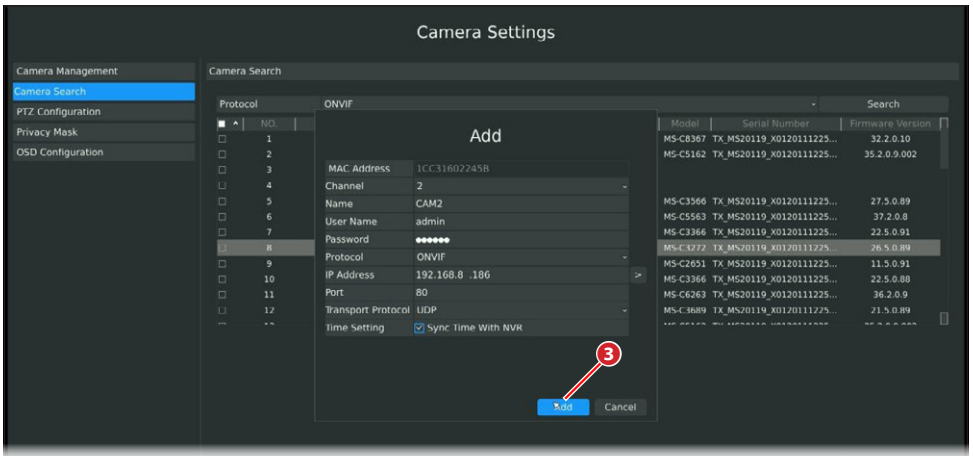


Adding an IP video camera using the search interface

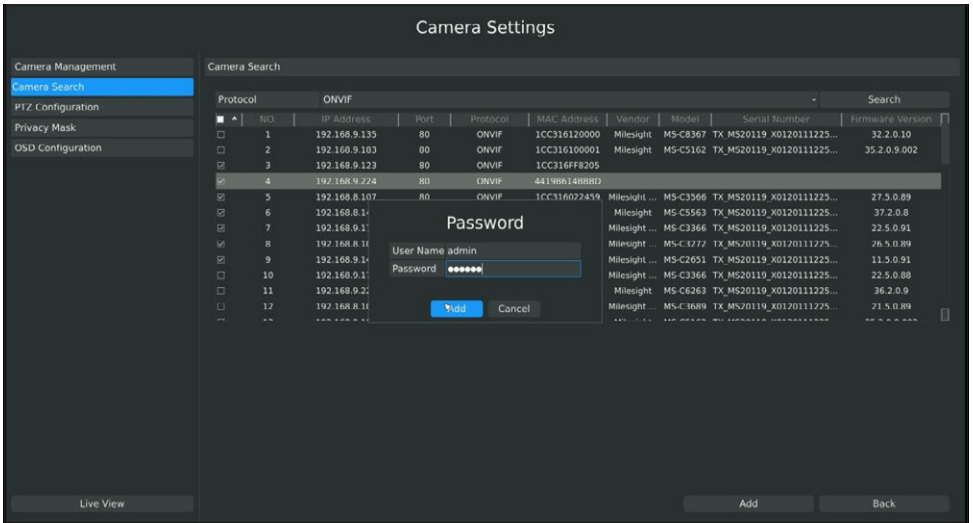
1. Select the tab .



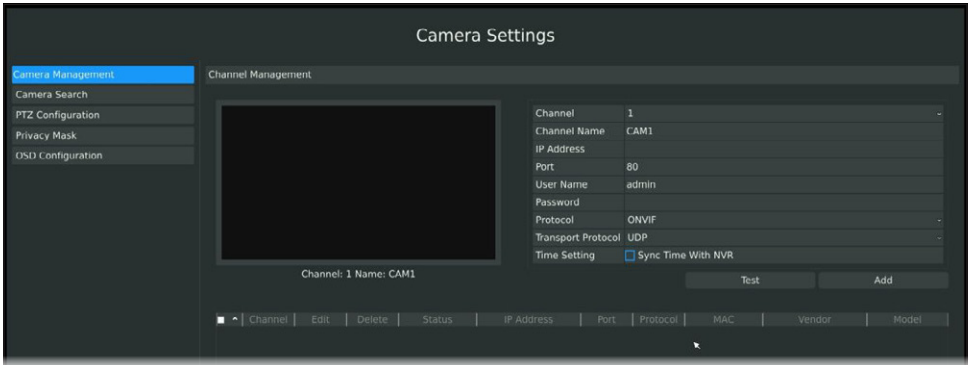
2. Press the button .



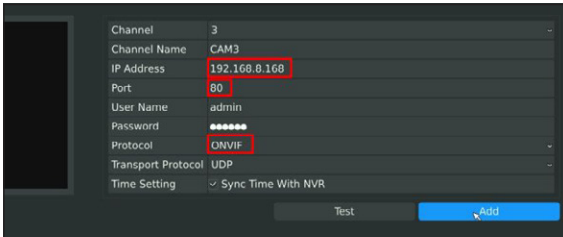
3. Double-click on the device you want to add, enter the password and press the button 3. Alternatively you can select more IP video cameras that share the same password.



Adding an IP video camera manually

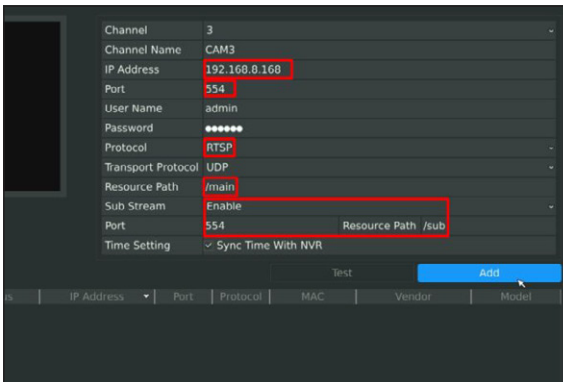


Select an inactive channel, fill in all the required fields and click on the [Add] button.
There are 3 compatible protocols to choose from:



ONVIF protocol

Lets you add any compatible ONVIF IP video camera. Details of the formats are shown in the screenshot

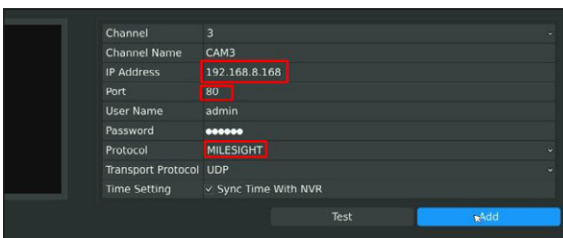


RTSP protocol

Lets you add any IP video camera that uses the RTSP protocol to manage video flows.

Port 554 must be selected and the "resource path" for the video camera entered.

For example, for the Milesight device, the main flow of the resource path is "/main" and the secondary flow is "/" sub" (see screenshot).



MSSP protocol

If the IP video camera is a Milesight device this protocol can be selected to add video cameras. (see screenshot).

Checking connection status

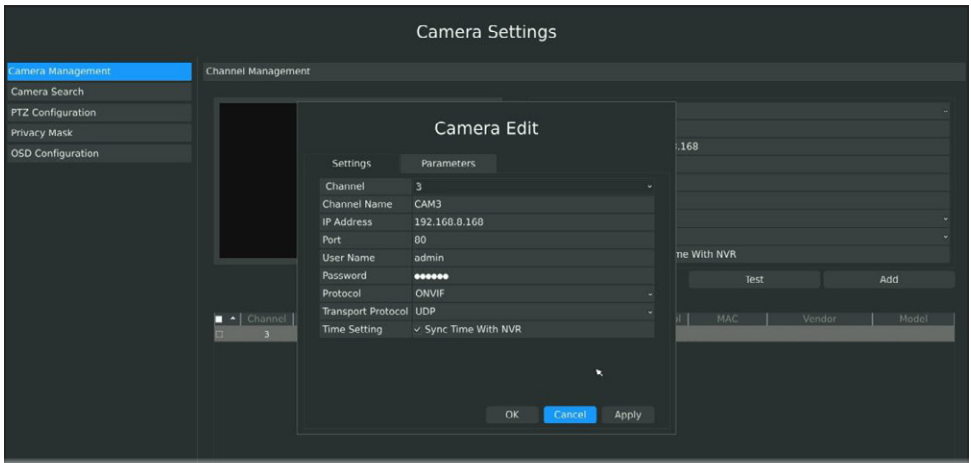
Channel	Edit	Delete	Status	IP Address	Port	Protocol	MAC	Vendor	Model
1	<input checked="" type="checkbox"/>		Connected	192.168.5.168	80	ONVIF	1cc3160a014e	Milesight T...gy Co.,Ltd.	MS-C3366
2	<input checked="" type="checkbox"/>		Connected	192.168.5.169	80	ONVIF	1cc316020046	Milesight T...gy Co.,Ltd.	MS-C3658
3	<input checked="" type="checkbox"/>		Connected	192.168.5.153	80	ONVIF	1cc31601024f	Milesight T...gy Co.,Ltd.	MS-C2662
5	<input checked="" type="checkbox"/>		Connected	192.168.5.191	80	ONVIF	1cc316020059	Milesight T...gy Co.,Ltd.	MS-C3658
6	<input checked="" type="checkbox"/>		Connected	192.168.5.192	80	ONVIF	1cc31602002b	KAREL	NBE-213RM-24
7	<input checked="" type="checkbox"/>		Connected	192.168.5.152	80	ONVIF	1cc316080009	Milesight T...gy Co.,Ltd.	MS-C3662

After adding IP channels, press the [Refresh] button; the connection status [state] will be displayed as [connected]. If not, it is necessary to check the connection to the network and whether the user name and password are correct.

Editing camera settings

To access the information about channel, IP address, password, etc, again...


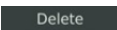
Select the channel and press or double-click on the channel you want.

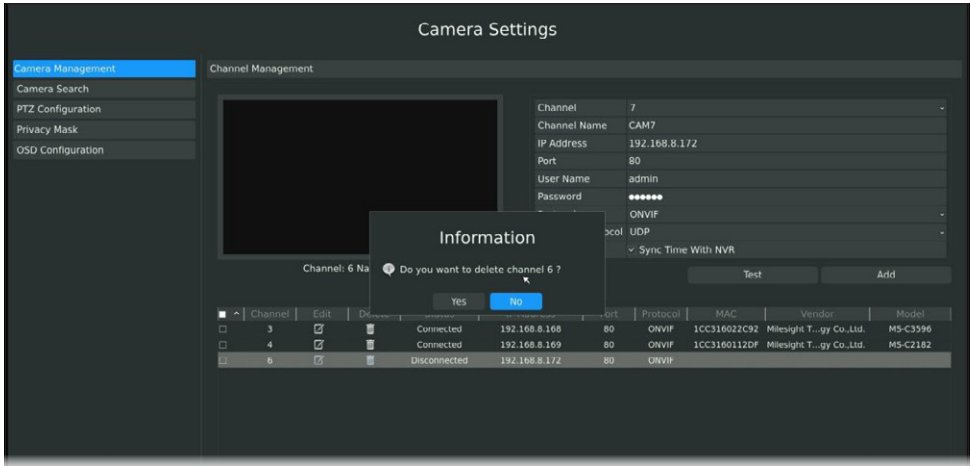


Edit the video camera's settings as you want and confirm your choices by pressing "Apply".

Note: by default, the user name and password are the ones pre-set, the port is 80 and the transport protocol is UDP.

Removing one or more video cameras

Press icon  to delete the selected video camera or select different devices and then press  to remove them from the list.



Setting up recording

Preparing the hard disk

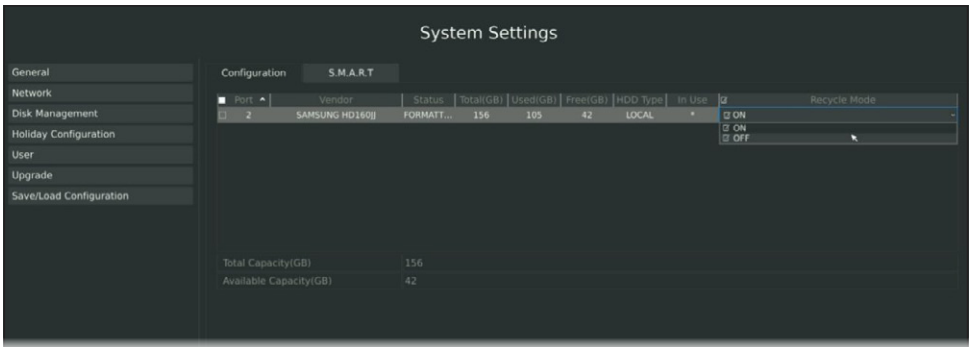
Check that the video recorder has installed and initialised the hard disk.

Access the disk management interface following the path  System Settings ⇒ Disk Management.



Check that the HDD has enough space.

To allow the system to overwrite the "oldest" data recorded on the hard disk, set the [Recycle Mode] option to ON.



Choose the recording mode [Record Mode]

Access the record mode menu following the path:

Main menu ⇒ Record ⇒ Record Mode.

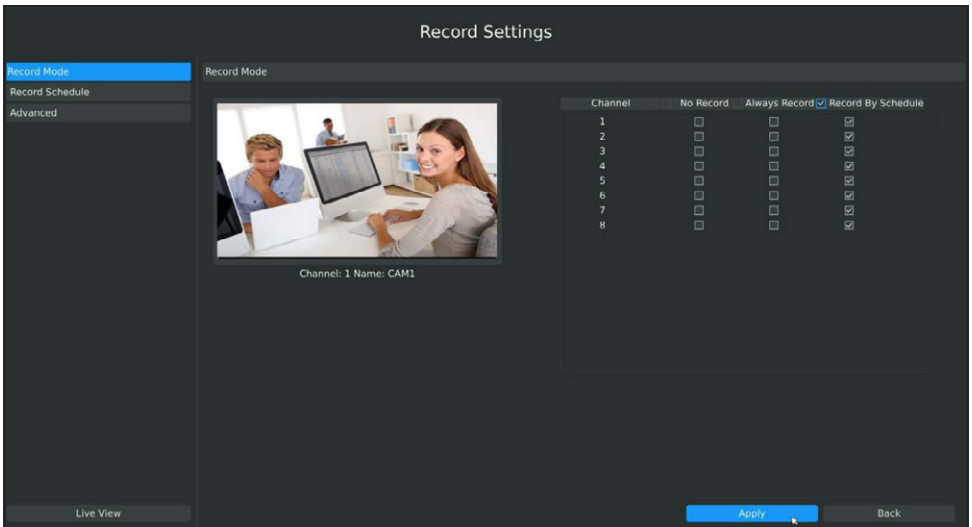
One of the following recording modes can be chosen for each channel:

[No record] ,

[Always record] ,

[Record by schedule] .

Press the [Apply] button to confirm your choices.



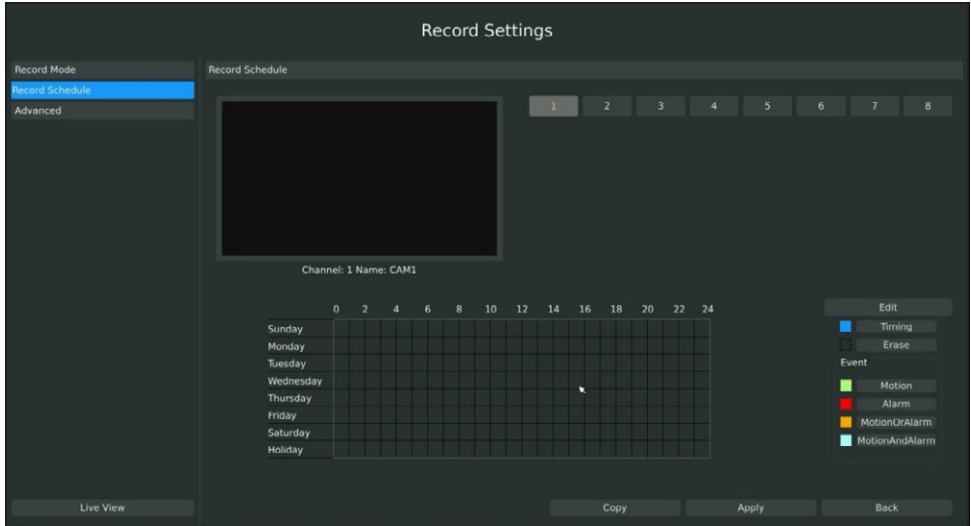
Setting the [Record Schedule]

Access the record schedule menu following the path:

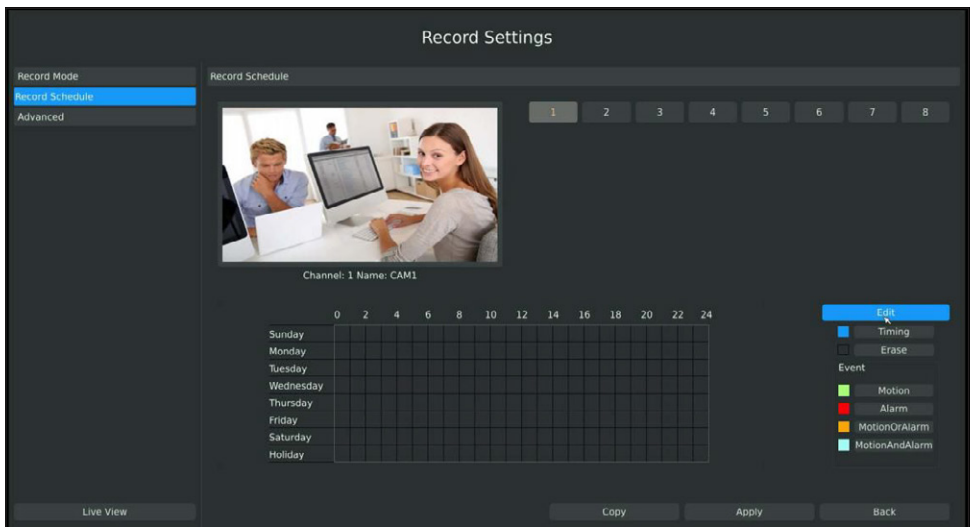
Main menu ⇒ Record ⇒ Record Schedule.

Note: the possible days are Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/Saturday/Holiday.

The holiday schedule takes priority over that of the other days.

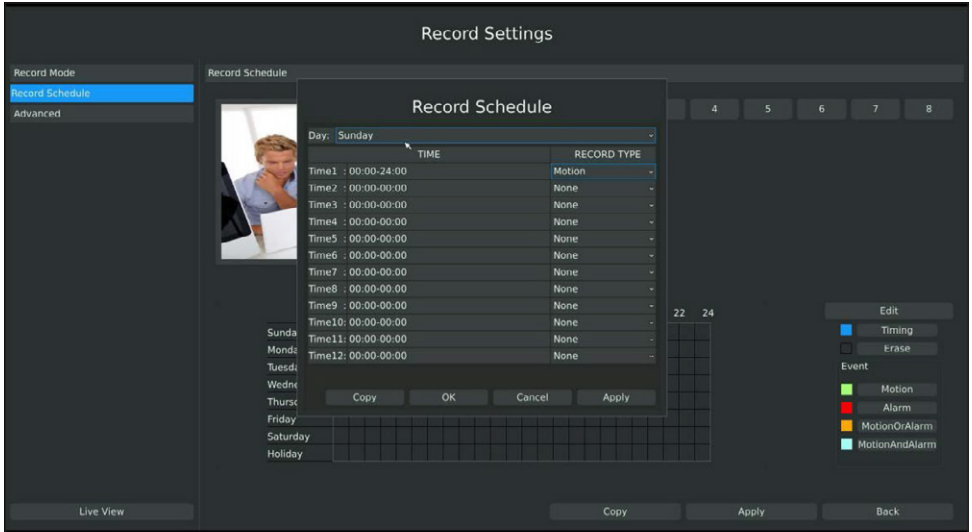


Select the channel you want (e.g. Channel 1) and click on the [Edit] button.



Select a day from the drop-down menu [Day] and choose [Record Type] to set the recording period (up to 12 periods can be set: e.g. 01.00 - 05.00 for no recording; 06.00 - 18.00 for recording linked to time slot; 19.00 - 21.00 for recording linked to motion; 22.00 - 24.00 for recording linked to alarms).

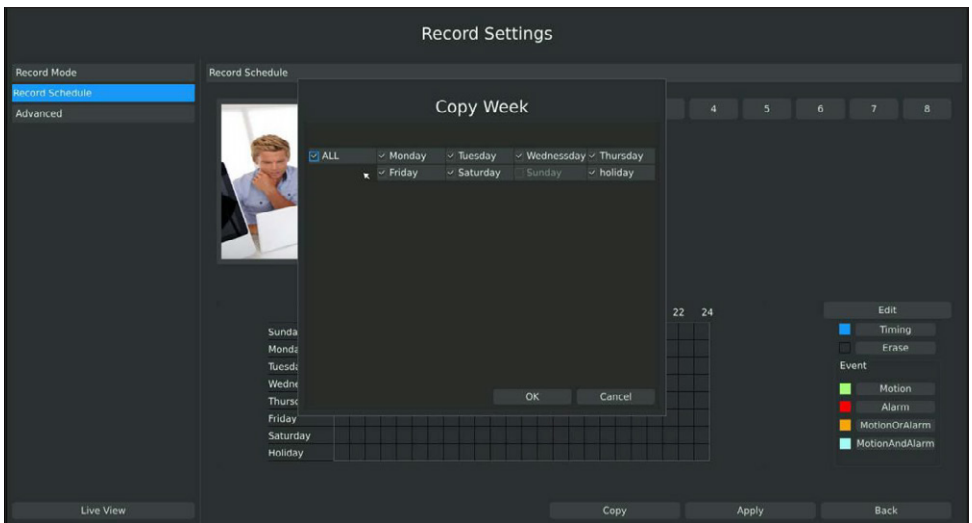
Note: the time periods cannot overlap.



Copying the schedule over to other days of the week

Press the [Copy] button to copy the settings to other days of the week.

Press the [Apply] button to confirm your choices.



At the end of programming, the channel is displayed as shown in the screenshot.



Copying recording settings to other channels

Select [Copy] to copy the same settings over to other channels, choose the channel(s) to copy to and click [OK] to save the settings.



Press the [Apply] button to confirm your choices or [Back] to go back to the previous menu.

Setting recording schedule by dragging with mouse

Access the record schedule menu following the path:

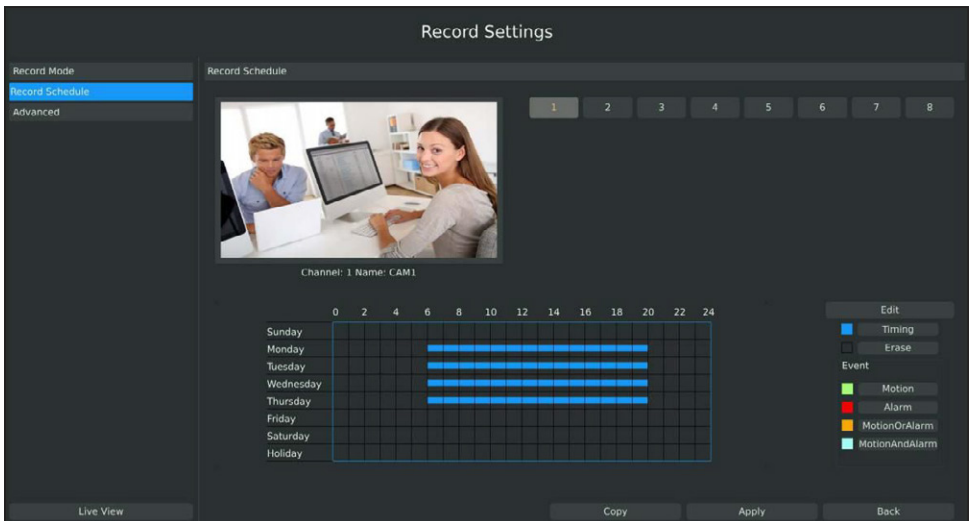
Main menu ⇒ Record ⇒ Record Schedule.

Select the channel you want to programme.



1 Select the recording mode you want and use the mouse to "drag" times/days of the week, and the area in which you want to do the recording, on the graphic.

Press the [Apply] button to confirm your choices.



Select [Copy] to copy the same settings over to other channels, choose the channel(s) to copy to and click [OK] to save the settings.

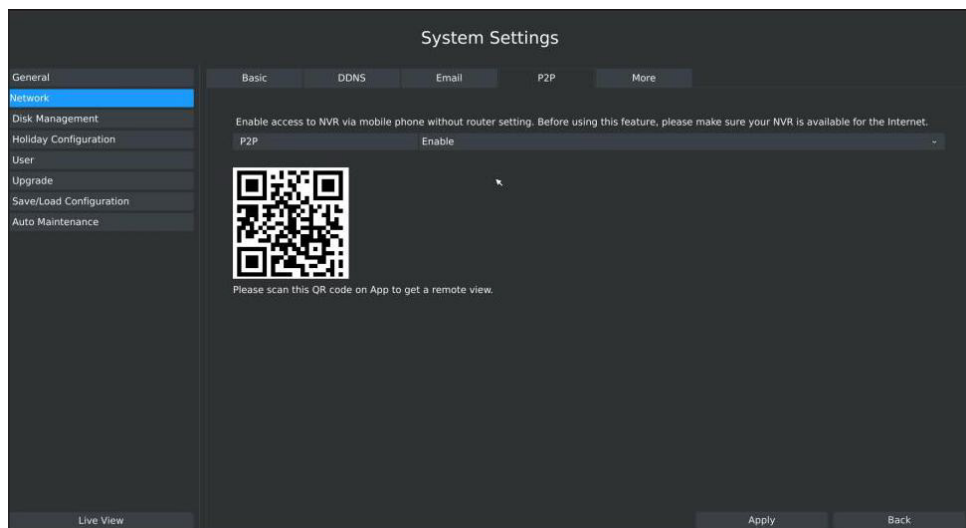
SETTING P2P

Using the M-VMS app you can access the NVR "live" view from your mobile device.

The P2P service allows connection to the NVR without setting up port-forwarding on the router.

Right-click on the live view and choose MENU ⇒ SYSTEM ⇒ NETWORK ⇒ P2P to display the screen in the screenshot.

1. Choose [Enable] from the drop-down P2P menu;



2. Press the Apply button to confirm the settings.

NOTE: For reasons of security, if the firmware of the device you are using matches one of those listed below, the P2P function must be registered before it is used.

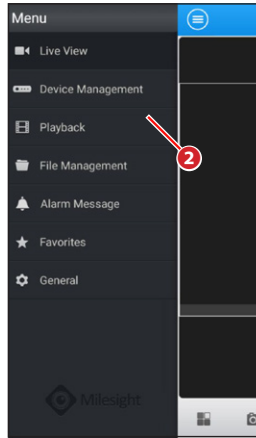
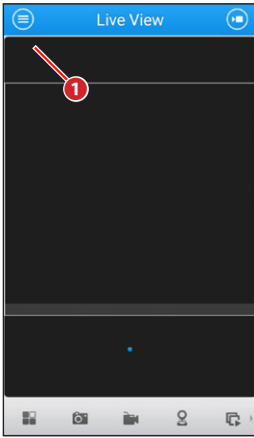
If the firmware version is 71.7.0.5-R13 or later or the firmware version is 72.7.0.5-r13 or later, you must contact your seller to ask for assistance.

Otherwise, you can just save the information entered on the P2P page.

If the operation is unsuccessful, check these suggestions:

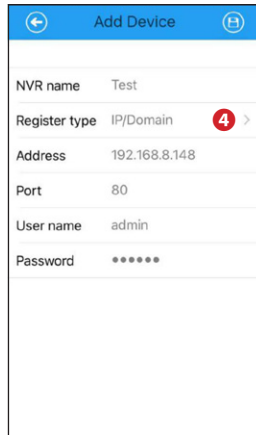
Error displayed	Possible solution
[Network Error]	Check the network connection status
[Register failed]	MAC address doesn't register P2P
[Unknown Error]	Contact assistance

After enabling, you can add the NVR on the M-VMS application by scanning the QR code on the P2P page, or by entering the MAC address manually.



Download the M-VMS application from the reference store and then launch the app.

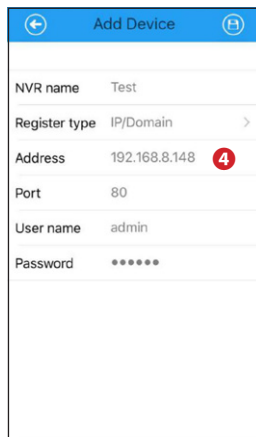
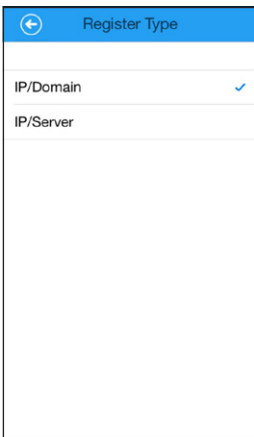
Touch button 1 and then button 2.



Touch button 3 to access the window that lets you add a new device to the list of those that can be reached from the mobile device.

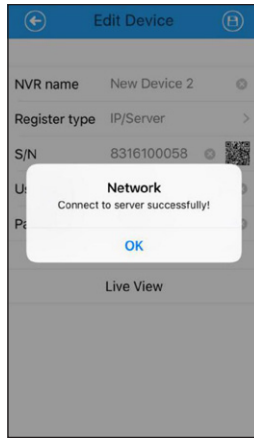
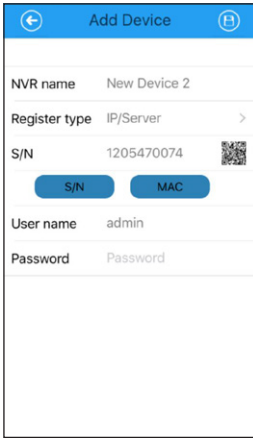
Assign a name to the device.

Touch space 4 to choose the type of network registration.

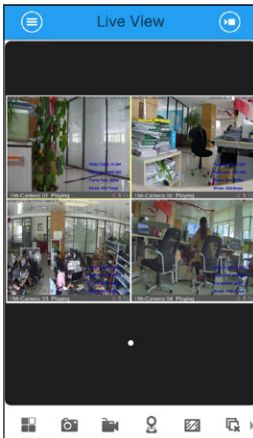


If you choose IP/Domain you must manually complete the following fields.

Field 5 can contain a local IP, public IP, or DDNS.

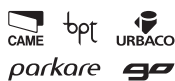


If the IP/Server option is chosen, select the MAC button and scan the QR code of the NVR to establish the connection.



English - Manual FA00768-EN - vers. 1 - 04/2017 - © CAME S.p.A.
The data and information shown in this manual are to be considered subject to change at any time and without the need for any advance warning.

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ENREGISTREUR VIDÉO EN RÉSEAU



MS-N5016-UH — MS-N5032-UH



MS-N7016-UH — MS-N7032-UH




MS-N8032-UH — MS-N8064-UH

FA00768-FR



INSTRUCTIONS GÉNÉRALES

-  Instructions importantes pour la sécurité des personnes : À LIRE ATTENTIVEMENT !
- L'installation, la programmation, la mise en service et l'entretien doivent être effectués par du personnel qualifié et dans le plein respect des normes en vigueur.
- Toujours couper le courant électrique durant les opérations de nettoyage ou d'entretien.
- Ce produit ne devra être destiné qu'à l'utilisation pour laquelle il a été expressément conçu.
- Le fabricant décline toute responsabilité en cas d'éventuels dommages provoqués par des utilisations impropres, incorrectes et déraisonnables.

DESCRIPTION

Enregistreur vidéo réseau numérique à 4, 8, 16, 32 entrées.

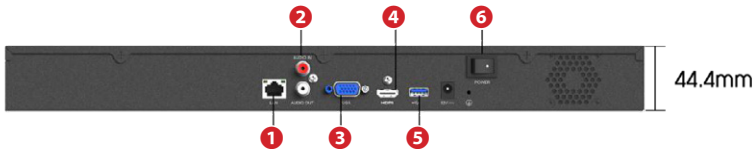
Données techniques

Type	MS-N5016-UH MS-N5032-UH	MS-N7016-UH MS-N7032-UH	MS-N8032-UH MS-N8064-UH
Entrées vidéo IP (nombre de canaux)	16/32	16/32	32/64
Entrées audio IP (nombre de canaux)	16/32	16/32	32/64
Sorties vidéo HDMI	1	1	2
Sorties vidéo VGA	1	1	2
Entrées/sorties audio (RCA)	1/1	1/1	1/1
Compression vidéo de l'enregistrement	H.265 / H.264	H.265 / H.264	H.265 / H.264
Fréquence d'image de l'enregistrement (fps)	1 - 25	1 - 25	1 - 25
Ports SATA disponibles	2	4	8
Ports Ethernet RJ45	1x 100/1000 M	2x 10/100/1000 M	2x 10/100/1000 M
Ports série RS-485	-	2	2
Ports USB 2.0	2	2	2
Ports USB 3.0	1	1	1
Entrées alarme	-	16	16
Sorties alarme	-	4	4
Absorption sans disque dur (W)	≤ 15	≤ 15	≤ 35
Température de fonctionnement (°C)	-10 ~ +55	-10 ~ +55	-10 ~ +55
Humidité de fonctionnement (%)	10 ~ 90	10 ~ 90	10 ~ 90
Dimensions (mm)	440 x 251 x 44,4	440 x 320 x 66,8	440 x 420 x 88,2
Largeur de bande (Mbps)	160/320	160/320	320
Résolutions d'enregistrement supportées	8MP(UHD-2160P)/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF		

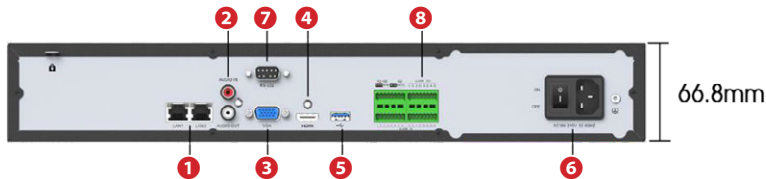
Type		MS-N5016-UH MS-N5032-UH	MS-N7016-UH MS-N7032-UH	MS-N8032-UH MS-N8064-UH
Nombre maximum de canaux synchronisés en playback	25fps@D1	16/32	16/32	32/64
	25fps@720P	16/32	16/32	32
	25fps@1080P	16	16	16
	25fps@3MP	10	10	10
	25fps@4MP	8	8	8
	25fps@2160P (UHD)	4	4	4
	25fps@2160P (4K)	4	4	4

Description des parties

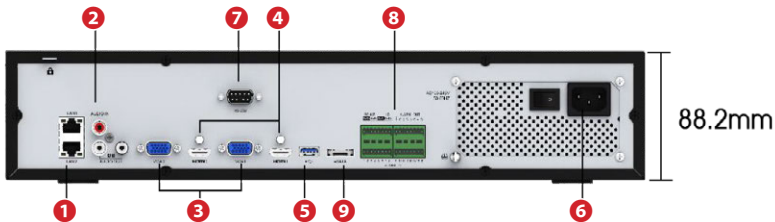
Panneau postérieur MS-N5016-UH - MS-N5032-UH



Panneau postérieur MS-N7016-UH - MS-N7032-UH



Panneau postérieur MS-N8032-UH - MS-N8064-UH

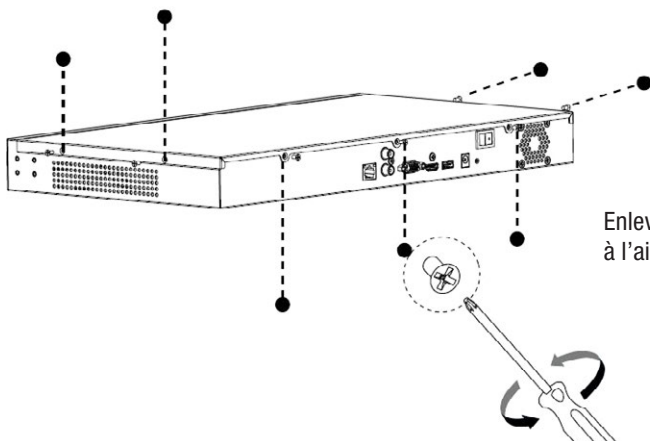


- 1 Port LAN,
- 6 Alimentation,
- 2 Entrées / sorties audio,
- 7 Connecteur pour clavier,
- 3 Sortie vidéo VGA,
- 8 Entrées et sorties alarme,
- 4 Sortie vidéo HDMI,
- 9 Connecteur eSATA.
- 5 Port USB 3.0,

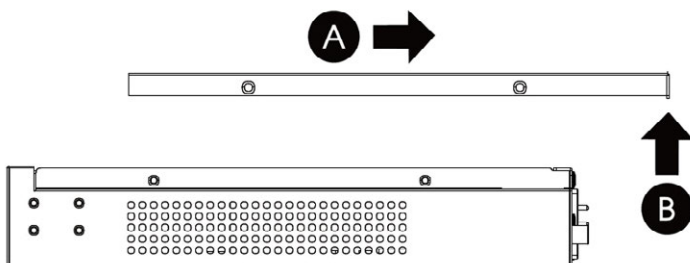
INSTALLATION DES DISQUES DURS

⚠ Couper le courant électrique durant les opérations d'installation des disques durs.

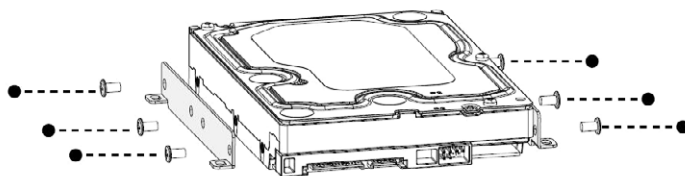
Installer le disque dur sur les modèles : MS-N5016-UH - MS-N5032-UH.



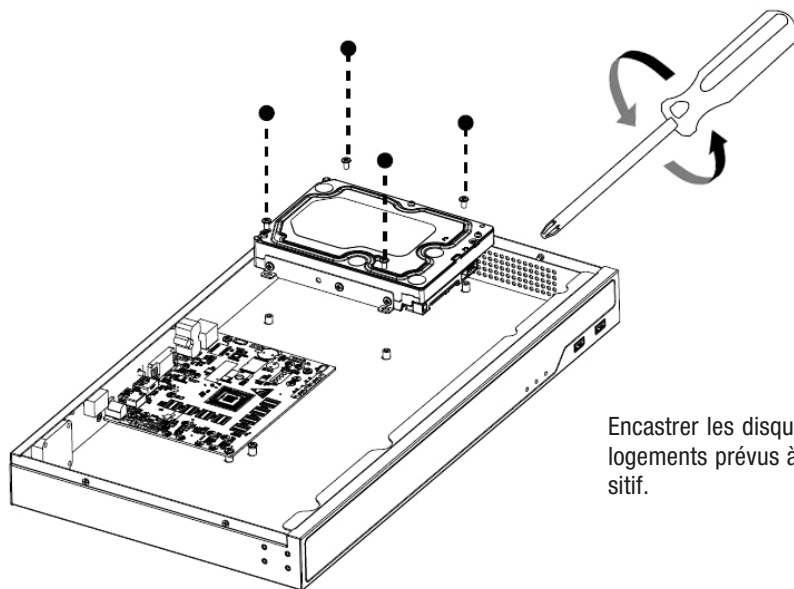
Enlever les vis du panneau postérieur à l'aide d'un tournevis cruciforme.



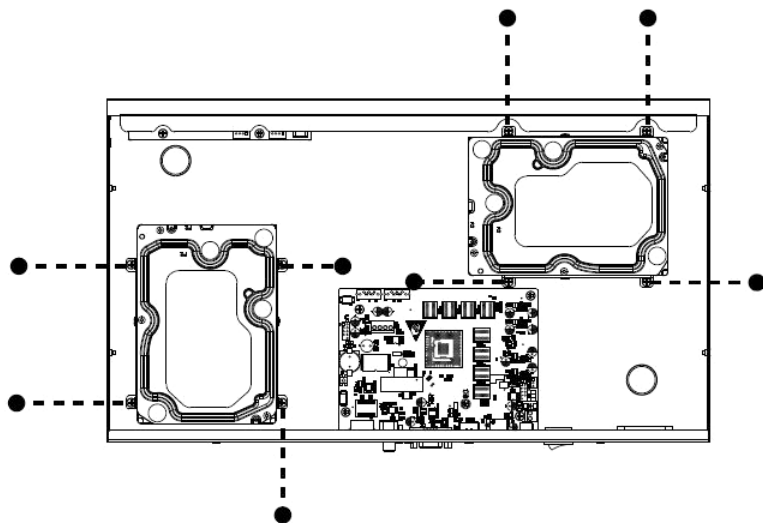
Faire glisser vers l'arrière le panneau supérieur du dispositif et le soulever.



Monter les étriers sur le disque dur comme indiqué sur la figure.

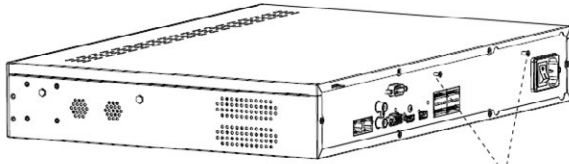


Encastrer les disques durs dans leurs logements prévus à la base du dispositif.

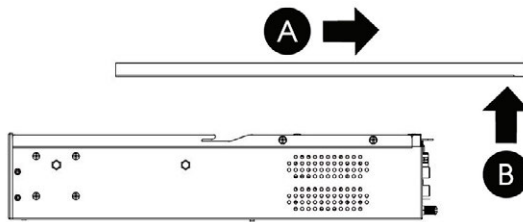


S'assurer que toutes les vis sont bien serrées, connecter le câble d'alimentation et le câble de données à chaque HDD. Refermer le panneau supérieur.

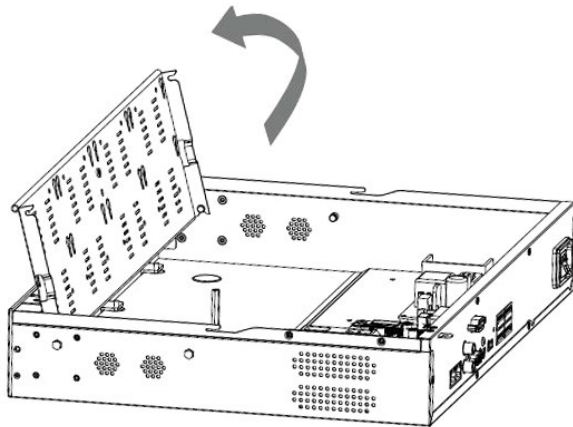
Installer le disque dur sur les modèles : MS-N7016-UH - MS-N7032-UH.



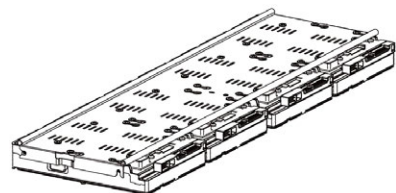
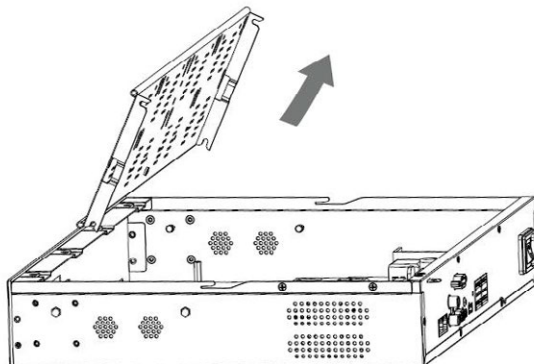
Enlever les vis du panneau postérieur à l'aide d'un tournevis cruciforme.



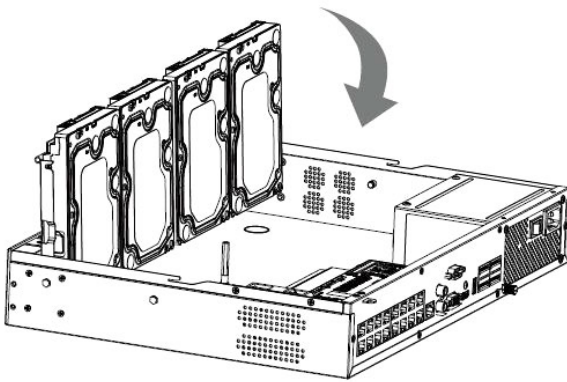
Faire glisser vers l'arrière le panneau supérieur du dispositif et le soulever.



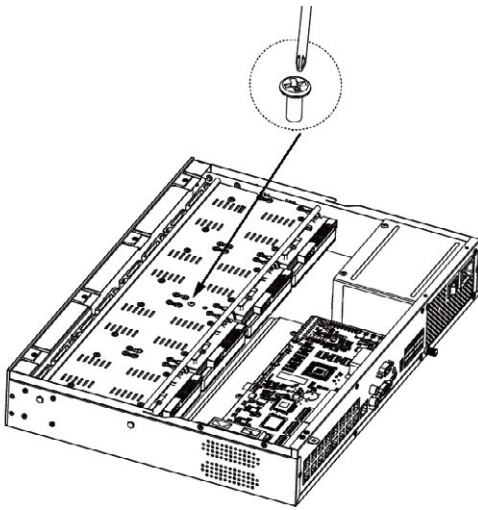
Il est possible d'enlever le logement des disques durs comme indiqué sur la figure.



Installer correctement les disques durs aux endroits prévus à cet effet.



Remettre le logement à sa place.

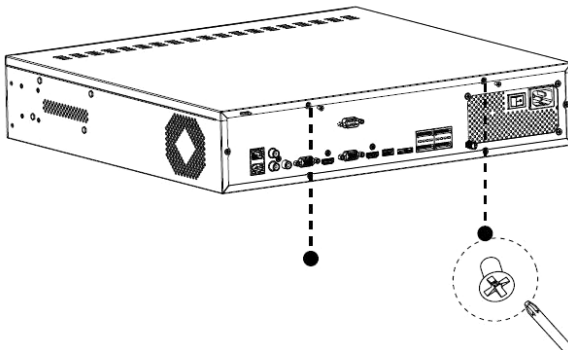


S'assurer que les 16 vis de l'étrier HDD sont bien serrées à fond.

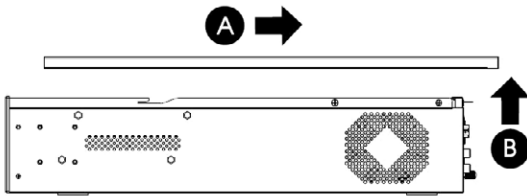
Fixer l'étrier au dispositif à l'aide de la vis centrale.

Connecter le câble d'alimentation et le câble de données à chaque disque dur puis refermer le panneau supérieur.

Installer le disque dur sur les modèles : MS-N8032-UH - MS-N8064-UH.

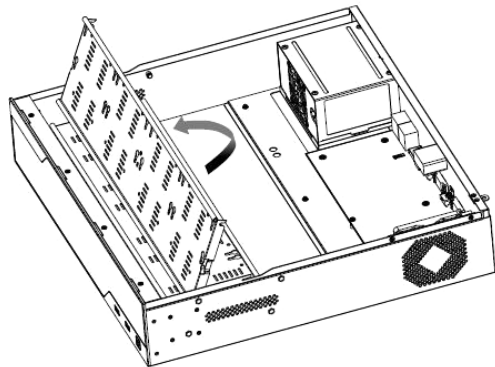
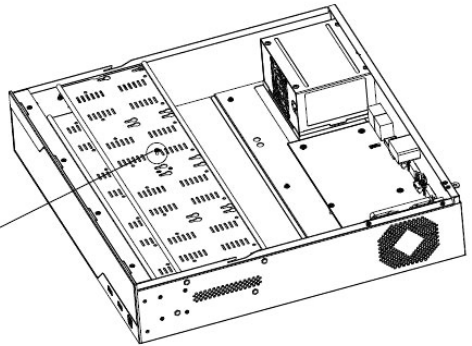
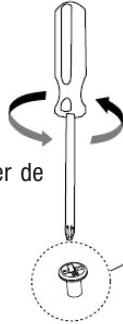


Enlever les vis du panneau postérieur à l'aide d'un tournevis cruciforme.

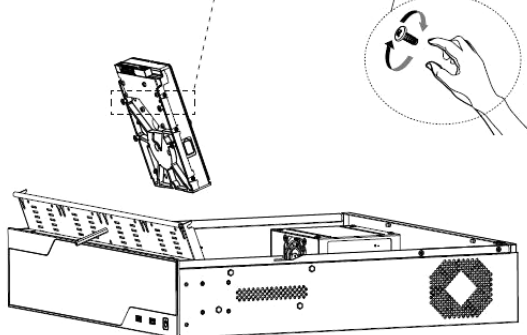
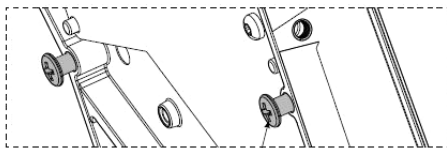


Faire glisser vers l'arrière le panneau supérieur du dispositif et le soulever.

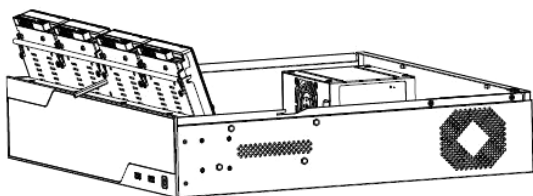
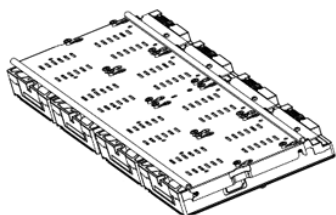
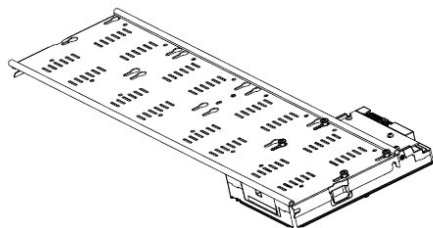
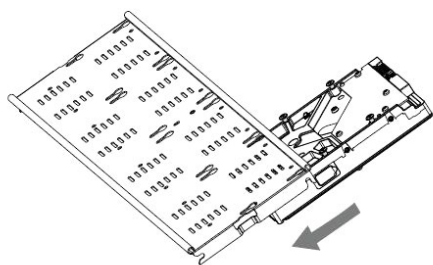
Enlever la vis au centre de l'étrier de logement des disques durs.



Il est possible d'ouvrir le logement comme indiqué sur la figure.



Visser quatre vis sur les logements de chaque disque dur en ayant soin de laisser un espace d'environ 4 mm entre la tête des vis et le trou de fixation.



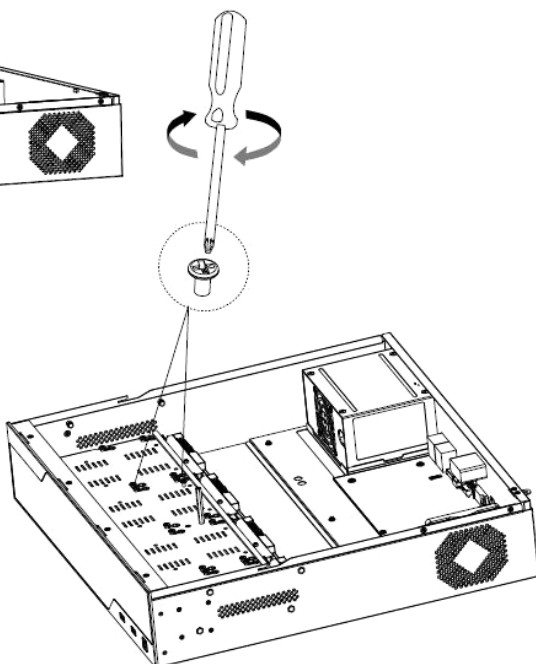
S'assurer que les vis de l'étrier HDD sont bien serrées à fond.

Fixer l'étrier au dispositif à l'aide de la vis centrale.

Connecter le câble d'alimentation et le câble de données à chaque disque dur puis refermer le panneau supérieur.

Positionner les disques durs dans l'étrier en introduisant les têtes des vis dans les logements spécifiques ; faire glisser le disque dur comme indiqué sur la figure puis serrer les vis.

Installer tous les disques durs aux endroits prévus à cet effet et remettre le logement à sa place.

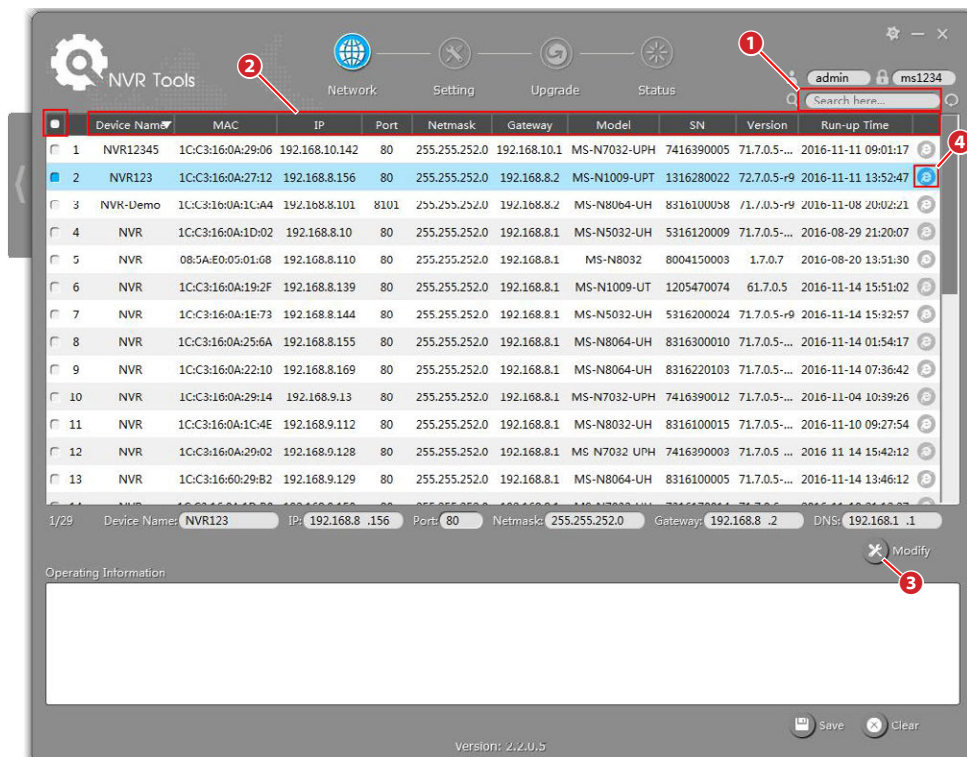


ACCÉDER À L'ENREGISTREUR NVR

Recherche de l'enregistreur NVR par le biais de l'application Smart Tools

Si l'on ne connaît pas l'adresse IP de l'enregistreur NVR, il est possible d'utiliser l'application Smart Tools pour la détection automatique des NVR Milesight connectés à un réseau LAN.

Pour trouver l'adresse IP d'un enregistreur NVR, effectuer les opérations suivantes :



- 1 Saisir dans la fenêtre de recherche le numéro de série (SN) ou l'adresse Mac pour trouver l'enregistreur NVR souhaité ;
- 2 La colonne visualise la liste de tous les NVR connectés ; y sélectionner l'enregistreur NVR souhaité et appuyer sur le bouton 3 pour en modifier les paramètres (ex. : adresse IP, port, masque de réseau, passerelle et DNS). Cliquer de nouveau sur le bouton 3 pour sauvegarder les configurations (l'adresse IP par défaut de l'enregistreur NVR est 192.168.5.200)
- 4 Le bouton Browser permet d'accéder directement à la page Web pour la gestion de l'enregistreur NVR (le nom d'utilisateur et le mot de passe par défaut de l'enregistreur NVR sont, respectivement, « admin » et « ms1234 »).

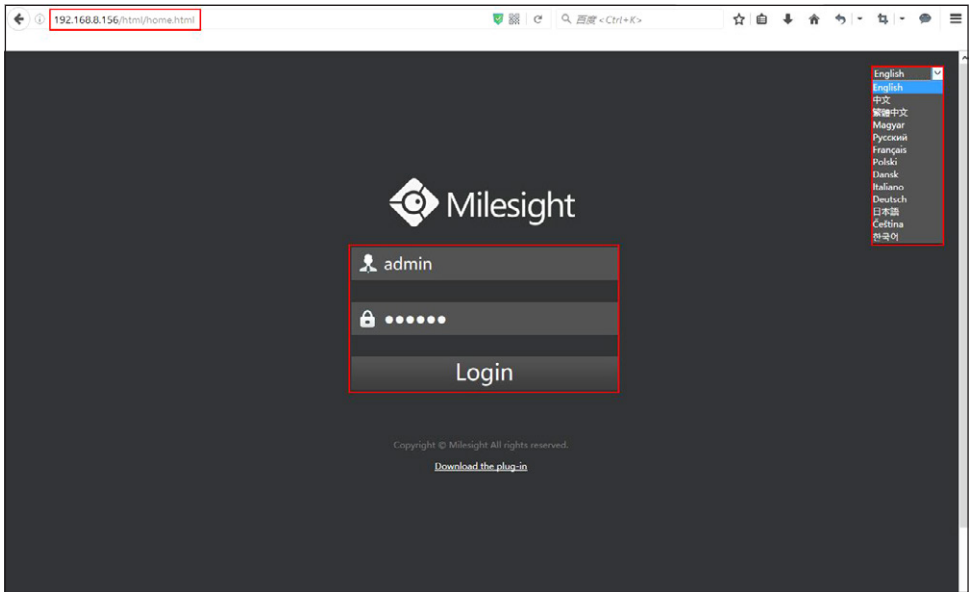
Remarque : pour de plus amples informations sur l'application Smart Tools, consulter le manuel d'utilisation.

Accès à l'enregistreur NVR via le WEB

Login

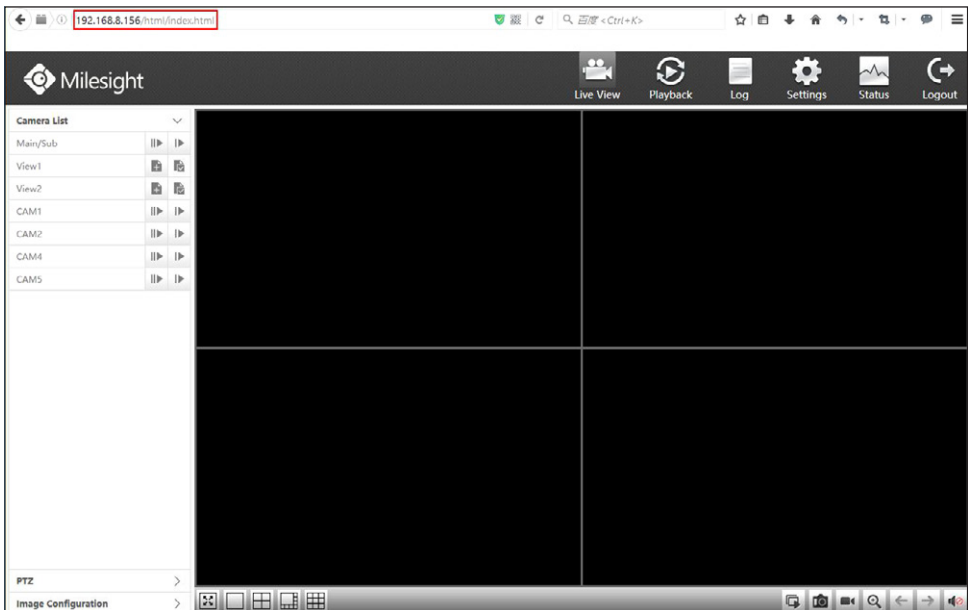
Si l'enregistreur NVR est connecté au réseau, il est possible d'y accéder via le WEB par le biais de l'adresse IP.

1. Ouvrir Firefox ou un autre navigateur.
2. Dans la barre d'adresse du navigateur, saisir l'adresse IP du dispositif (ex. : `http://192.168.8.156`).
3. Choisir la langue de l'interface avant de taper le nom d'utilisateur et le mot de passe (le nom d'utilisateur et le mot de passe par défaut de l'enregistreur NVR sont, respectivement, « admin » et « ms1234 »).
4. Appuyer sur le bouton Login pour accéder à la page Live View.



Remarques :

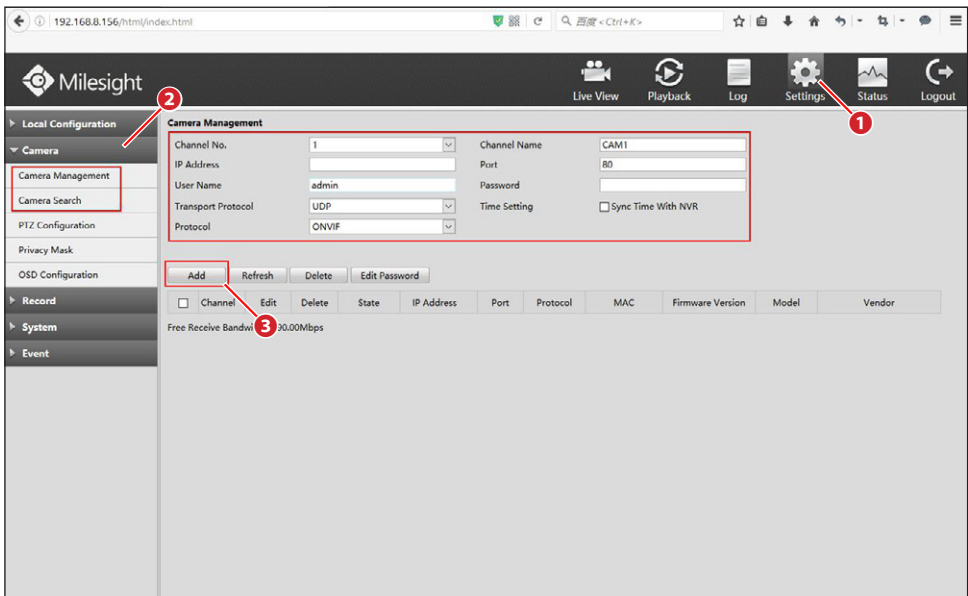
1. Si le port HTTP n'est pas 80 (valeur par défaut), il faut entrer le numéro du port après l'adresse IP (ex. : `http://192.168.8.156:90`).
2. Il est nécessaire, en cas de premier accès à l'enregistreur NVR via le Web, d'installer le module d'extension ; fermer le navigateur avant d'effectuer l'installation.



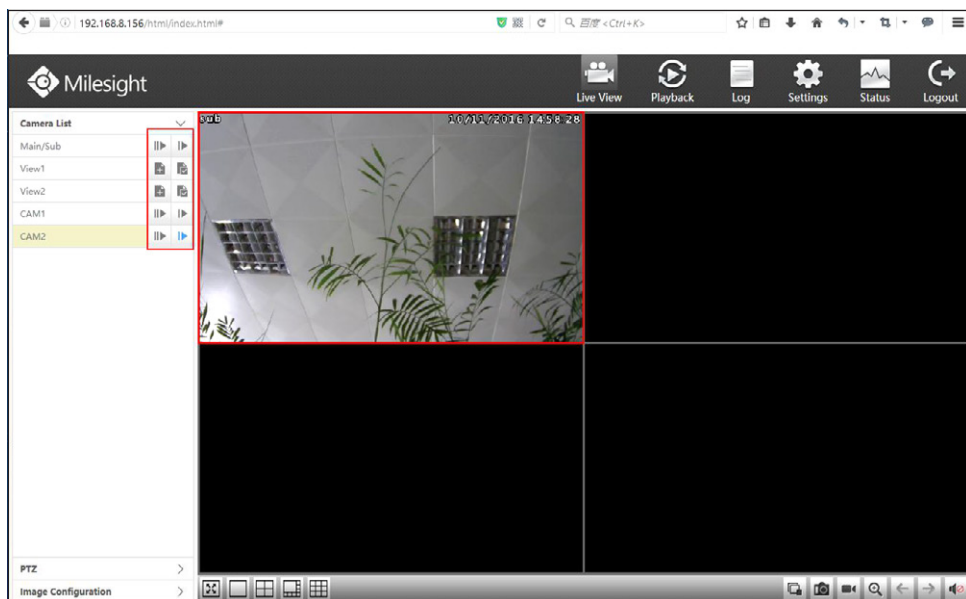
Live view (Fenêtre des images prises en direct)

Pour ajouter des caméras, après avoir effectué l'accès à l'enregistreur NVR, appuyer sur l'icône **1** et accéder à la section pour la configuration des caméras en appuyant sur le bouton **2**, entrer les informations nécessaires au dispositif pour ajouter les caméras.

Appuyer sur le bouton **3** pour ajouter la caméra à la liste.



Après avoir ajouté les caméras, cliquer sur le bouton  pour visualiser l'aperçu (le nom d'utilisateur et le mot de passe par défaut de la caméra de réseau sont, respectivement, « admin » et « ms1234 »).



Procédure de configuration guidée

La procédure de configuration guidée démarre, par défaut, immédiatement après l'allumage du magnétoscope. La procédure de configuration guidée aide à configurer quelques valeurs indispensables pour garantir le bon fonctionnement du dispositif. Il est possible de choisir d'activer ou non la procédure guidée au démarrage du dispositif.

Remarque : les données saisies durant la phase de configuration guidée (wizard) pourront être modifiées à tout moment.

Pour la configuration, procéder de la manière suivante :

Wizard

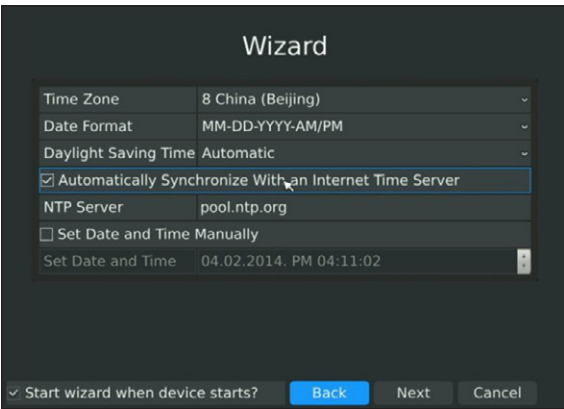
Admin Password	*****
<input checked="" type="checkbox"/> New Admin Password	
New Password	*****
Confirm	*****

Start wizard when device starts? Back **Next** Cancel

Données d'accès

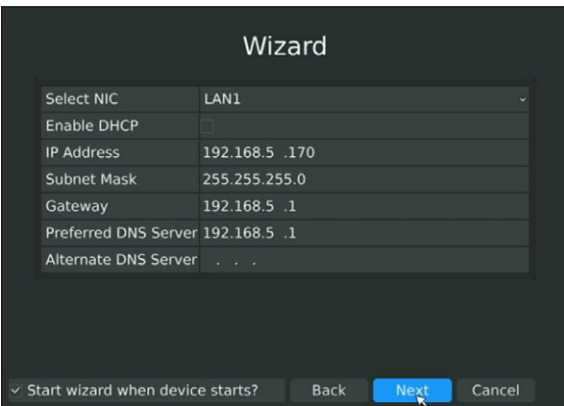
Saisir le nom d'utilisateur et le mot de passe (nom d'utilisateur prédéfini « admin », mot de passe « ms1234 »).

Pour modifier le mot de passe admin, entrer le nouveau mot de passe.



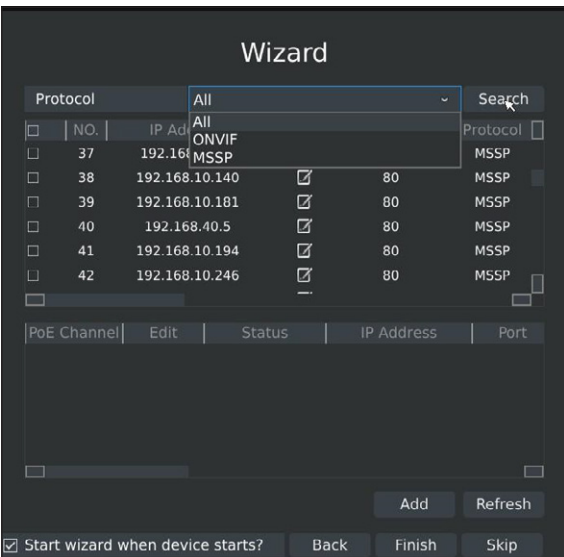
Configuration de la date et de l'heure

Sélectionner le fuseau horaire (Time Zone) et le format de la date (Date Format) ou bien saisir la date et l'heure manuellement.



Configurations de réseau

Saisir l'adresse IP (IP Address), le masque de sous-réseau (Subnet Mask), la passerelle et le serveur DNS préférentiel (Preferred DNS Server).

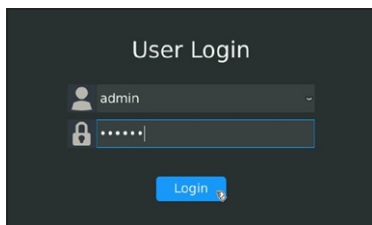


Ajouter des caméras

Le dispositif indique toutes les caméras connectées ayant été détectées.

Sélectionner les caméras souhaitées et les ajouter au dispositif.

Appuyer sur l'icône pour modifier l'adresse IP de la caméra souhaitée de manière et la rendre compatible avec celle du NVR.



Accès (Login)

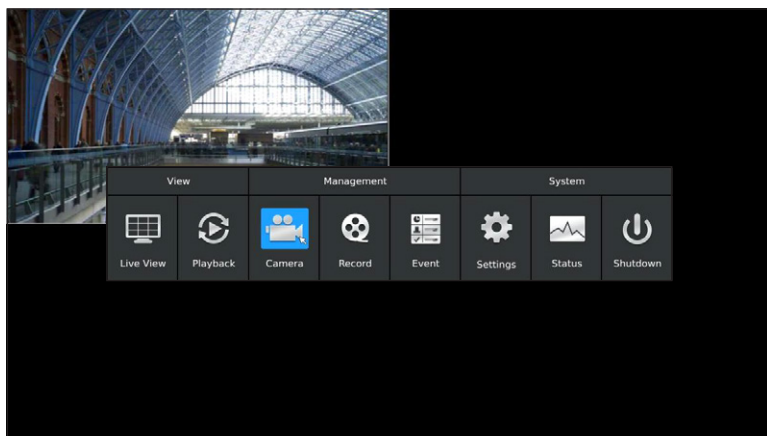
Saisir le nom d'utilisateur et le mot de passe (par défaut « admin » et « ms1234 »).

CONFIGURATIONS GÉNÉRALES DU DISPOSITIF

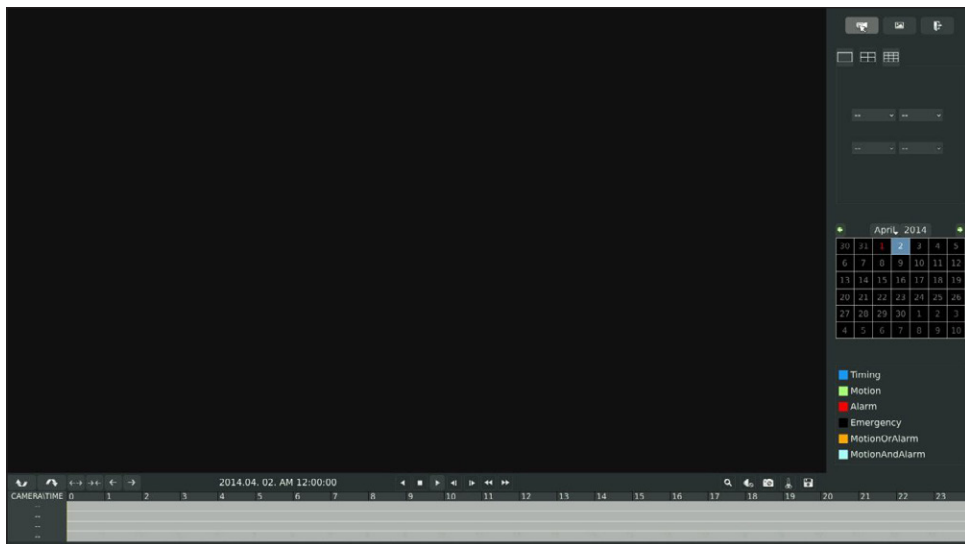
Live view (images en direct)


Après avoir saisi les données d'accès à l'enregistreur NVR, la page visualise les images prises par les caméras connectées.

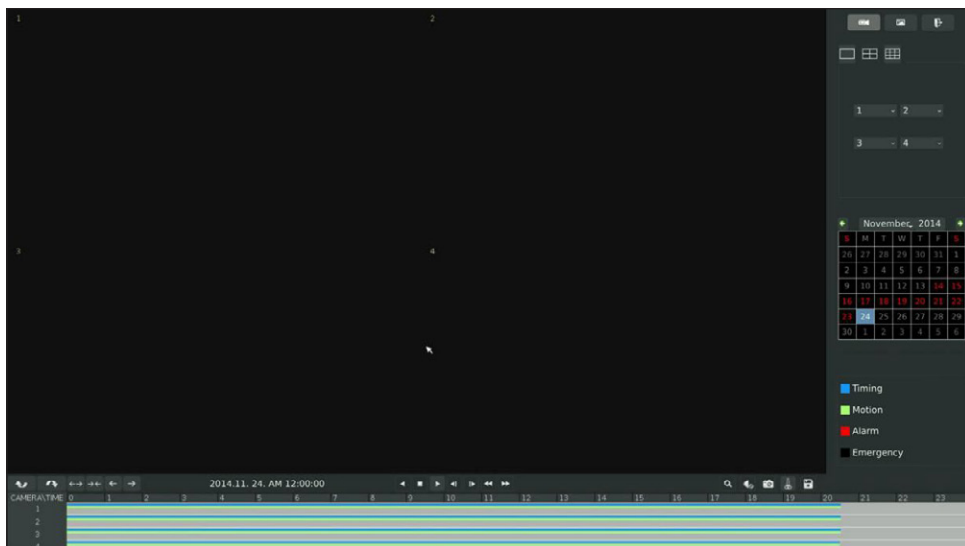
Le menu contextuel qui apparaît, après avoir effectué un double clic droit en un point quelconque de l'écran, permet d'accéder au menu de configuration (voir figure).



Playback (reproduction)



Sélectionner le canal et le schéma de reproduction. Cliquer sur la date qui apparaît en rouge en présence de fichiers enregistrés dans les canaux sélectionnés (le type et les données d'enregistrement seront visualisés comme illustré ci-après) et cliquer sur  pour lancer la reproduction.



Remarques :

1. Le jour qui apparaît en rouge contient des fichiers d'enregistrement ; sélectionner cette date pour lancer la reproduction.
2. Il est possible de sélectionner jusqu'à 16 chaînes à reproduire de façon synchrone.

Description de la barre d'outils de reproduction vidéo



La barre d'outils peut visualiser des enregistrements multi-événements ; la couleur des bandes indique le type d'événement s'étant vérifié durant une période d'enregistrement spécifique :

Bleu --- Plage horaire Vert --- Mouvement
Rouge --- Alarme Noir --- Urgence

La barre illustrée ci-dessus indique clairement par exemple que des événements liés au mouvement et à la plage horaire se sont vérifiés durant la période d'enregistrement définie.

Légende des commandes

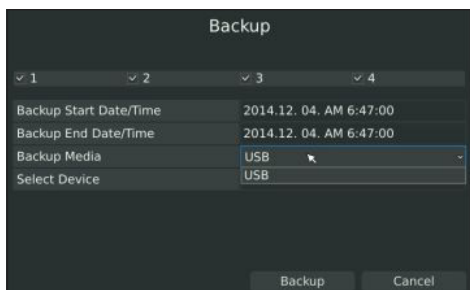
- | | |
|--------------------------|---------------------------------|
| Rembobinage | Ligne temporelle avant |
| Stop | Agrandissement ligne temporelle |
| Reproduction | Réduction ligne temporelle |
| Pause | Ligne temporelle |
| Saut arrière | Position de reproduction |
| Saut avant | Début coupure ligne temporelle |
| Retour rapide | Fin coupure ligne temporelle |
| Avance rapide | Audio On |
| 4 caméras précédentes | Audio Off |
| 4 caméras suivantes | Instantanée |
| Ligne temporelle arrière | Sauvegarde |

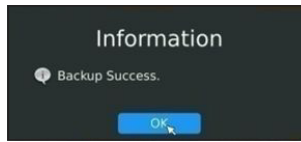
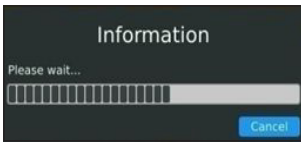
Sauvegarde des fichiers vidéo

Les fichiers enregistrés peuvent être sauvegardés sur différents dispositifs tels que, par exemple, des clés USB, HDD USB, graveurs USB, graveurs CD/DVD, disques eSATA, etc.

Depuis l'interface de reproduction vidéo, sélectionner le canal et la date de l'enregistrement à sauvegarder

1. Sur la ligne temporelle, se positionner sur l'heure de début de la portion de vidéo à sauvegarder.
2. Cliquer sur l'icône ; l'icône change d'aspect pour indiquer le début de la coupure.
3. Se positionner sur l'heure de fin de la portion de vidéo à sauvegarder.
4. Cliquer sur l'icône ; l'icône change d'aspect pour indiquer la fin de la coupure.
5. Sélectionner l'icône pour accéder à l'interface de sauvegarde
6. Sélectionner le support de sauvegarde et cliquer sur [Backup].

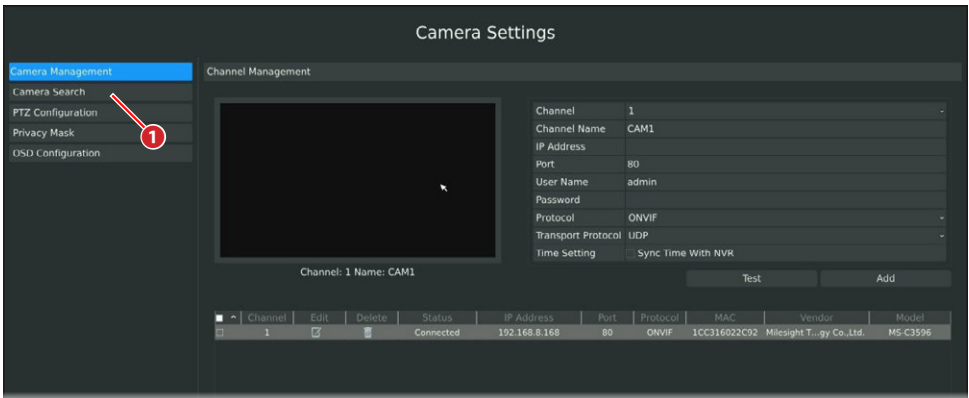




Attendre la fin des opérations de sauvegarde.

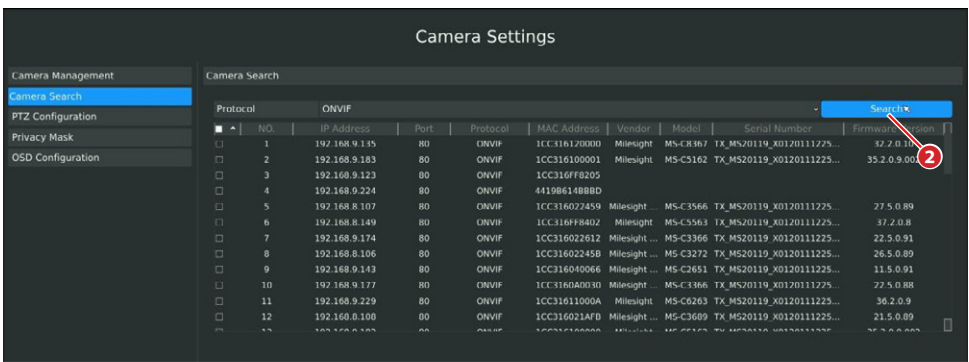
Configuration des caméras

Contrôler que les caméras IP et l'enregistreur vidéo appartiennent au même réseau et que les configurations de réseau de l'enregistreur vidéo sont correctes.

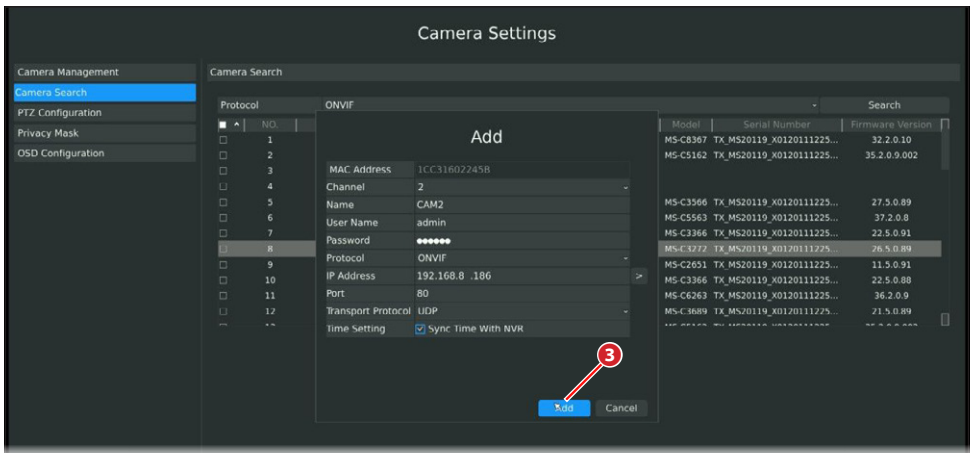


Ajouter une caméra IP par le biais de l'interface de recherche

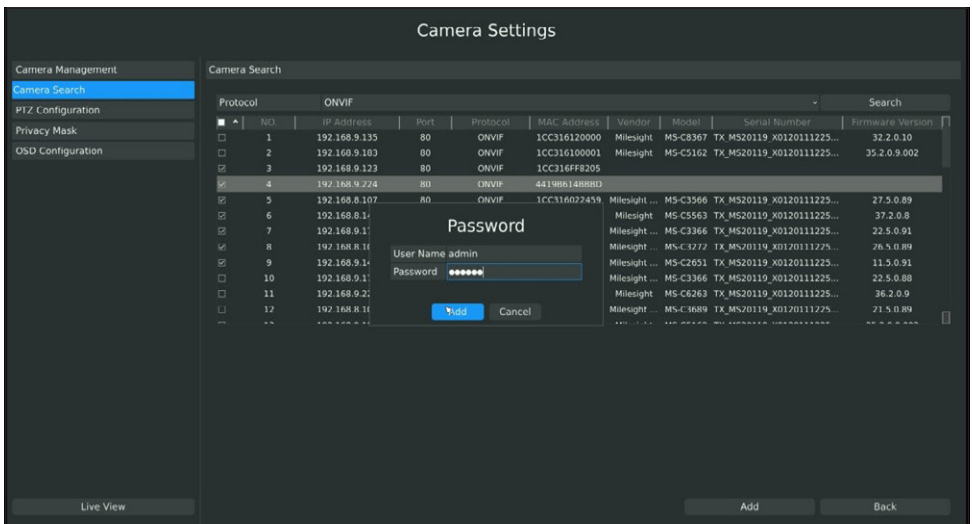
1. Sélectionner l'onglet 1.



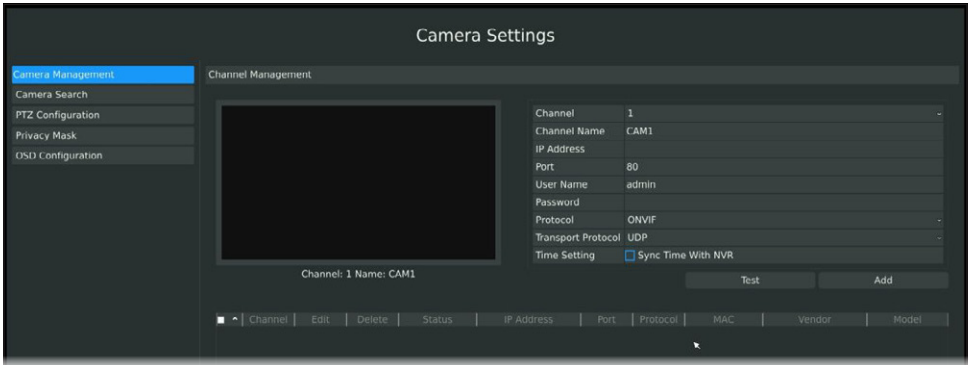
2. Appuyer sur le bouton 2.



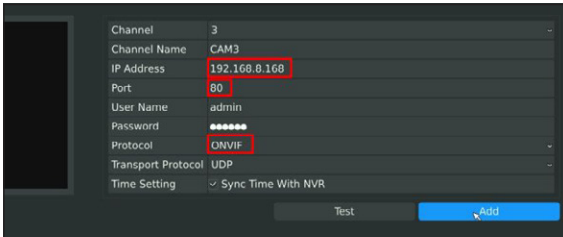
3. Cliquer deux fois sur le dispositif à ajouter, saisir le mot de passe et appuyer sur le bouton 3. Il est également possible de sélectionner plusieurs caméras IP partageant le même mot de passe.



Ajouter une caméra IP manuellement

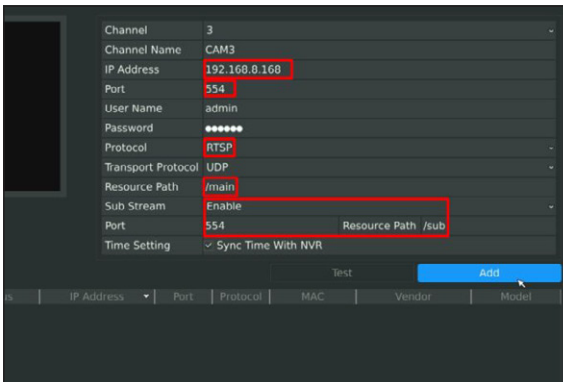


Sélectionner un canal désactivé, remplir tous les champs requis et cliquer sur le bouton [Add].
Il est possible de choisir entre 3 protocoles compatibles :



Protocole ONVIF

Permet d'ajouter une quelconque caméra IP compatible ONVIF. La figure montre les détails des formats.

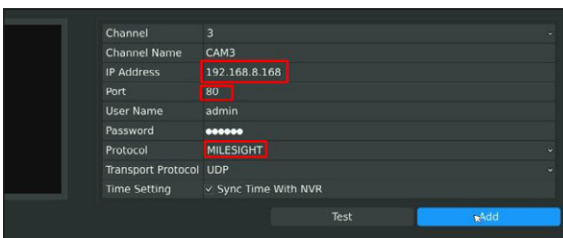


Protocole RTSP

Permet d'ajouter une quelconque caméra IP qui utilise le protocole RTSP pour la gestion des flux vidéo.

Il faut sélectionner le port 554 et entrer le « resource path » pour la caméra.

Pour le dispositif Milesight, par exemple, le flux principal du parcours de ressources est « /main » et le flux secondaire « /sub » (voir figure).



Protocole MSSP

Si la caméra IP est un dispositif Milesight, il est possible de sélectionner ce protocole pour ajouter les caméras (voir figure).

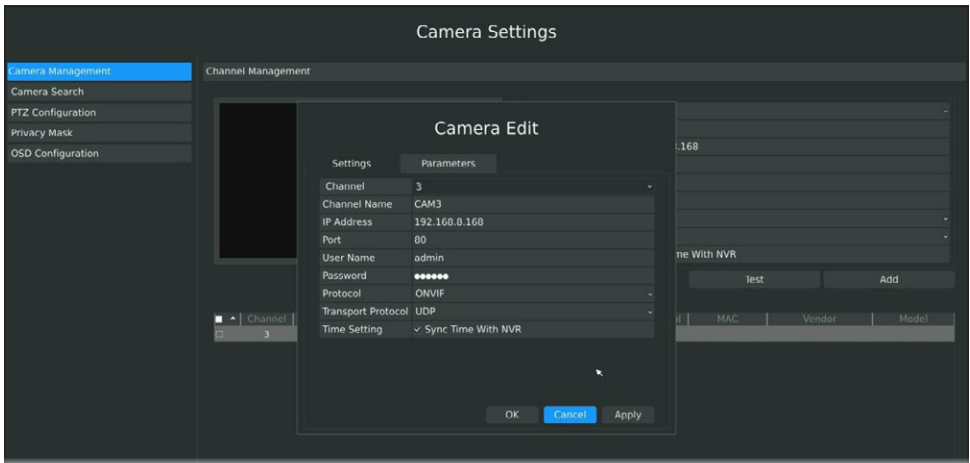
Contrôler l'état de la connexion

Channel	Edit	Delete	Status	IP Address	Port	Protocol	MAC	Vendor	Model
1	<input checked="" type="checkbox"/>		Connected	192.168.5.168	80	ONVIF	1cc3160a014e	Milesight T...gy Co.,Ltd.	MS-C3666
2	<input checked="" type="checkbox"/>		Connected	192.168.5.169	80	ONVIF	1cc316020046	Milesight T...gy Co.,Ltd.	MS-C3658
3	<input checked="" type="checkbox"/>		Connected	192.168.5.153	80	ONVIF	1cc31601024f	Milesight T...gy Co.,Ltd.	MS-C2662
5	<input checked="" type="checkbox"/>		Connected	192.168.5.191	80	ONVIF	1cc316020059	Milesight T...gy Co.,Ltd.	MS-C3658
6	<input checked="" type="checkbox"/>		Connected	192.168.5.192	80	ONVIF	1cc31602002b	KAREL	NBE-213RM-24
7	<input checked="" type="checkbox"/>		Connected	192.168.5.152	80	ONVIF	1cc316080009	Milesight T...gy Co.,Ltd.	MS-C3662

Après avoir ajouté les canaux IP, appuyer sur le bouton [Refresh] ; l'état de la connexion [state] sera visualisé comme [connected]. Dans le cas contraire, il faut contrôler la connexion au réseau et s'assurer que le nom d'utilisateur et le mot de passe sont bien corrects.

Modifier la configuration d'une caméra

Pour accéder de nouveau aux informations sur le canal, l'adresse IP, le mot de passe, etc. Sélectionner le canal et appuyer sur ou bien cliquer deux fois sur le canal souhaité.

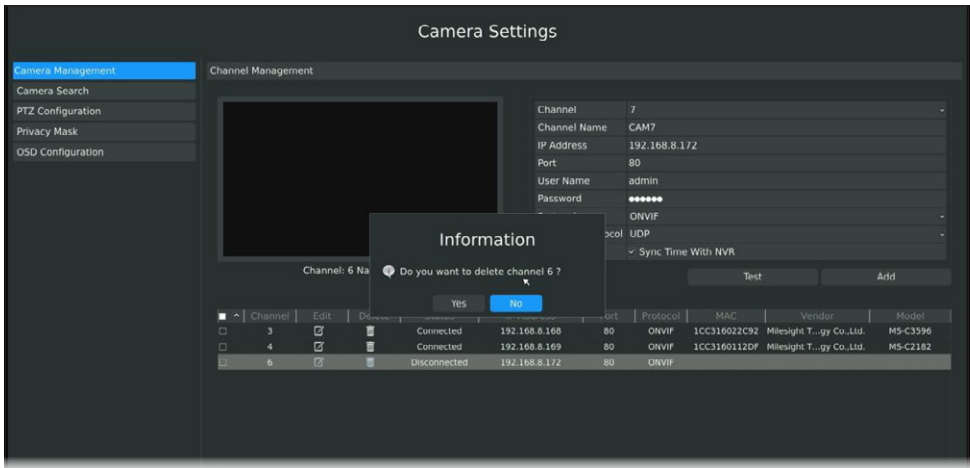


Modifier les paramètres de la caméra comme souhaité et valider les choix en appuyant sur le bouton « Apply ».

Remarque : le nom d'utilisateur et le mot de passe par défaut sont ceux prédéfinis, le port est 80 et le protocole de transport UDP.

Éliminer une ou plusieurs caméras

Appuyer sur l'icône  pour éliminer la caméra sélectionnée ou bien sélectionner plusieurs dispositifs puis appuyer sur  pour les éliminer de la liste.



The screenshot shows the 'Camera Settings' interface. On the left, there is a sidebar with 'Camera Management' selected. The main area is titled 'Channel Management' and contains a table of channels. A modal dialog titled 'Information' is open, asking 'Do you want to delete channel 6?'. The dialog has 'Yes' and 'No' buttons. Below the dialog, a table lists channels with columns for Channel, Edit, Delete, Status, IP Address, Port, Protocol, MAC, Vendor, and Model.

Channel	Edit	Delete	Status	IP Address	Port	Protocol	MAC	Vendor	Model
3			Connected	192.168.8.168	80	ONVIF	1CC316022C92	Milesight Technology Co., Ltd.	MS-C3596
4			Connected	192.168.8.169	80	ONVIF	1CC3160112DF	Milesight Technology Co., Ltd.	MS-C2182
6			Disconnected	192.168.8.172	80	ONVIF			

Configurer l'enregistrement

Préparation du disque dur

S'assurer que l'enregistreur vidéo a bien installé et initialisé le disque dur.

Accéder à l'interface de gestion du disque en suivant le parcours  System Settings ⇒ Disk Management.



The screenshot shows the 'System Settings' interface with 'Disk Management' selected in the sidebar. The main area shows a table of disk configurations. The 'Recycle Mode' is set to 'ON'. Below the table, the total and available capacity of the HDD are displayed.

Port	Vendor	Status	Total (GB)	Used (GB)	Free (GB)	HDD Type	In Use	Recycle Mode
2	SAMSUNG HD160J	FORMAT...	156	105	42	LOCAL	*	ON

Total Capacity (GB) 156
Available Capacity (GB) 42

S'assurer que l'espace de l'HDD est suffisant.

Pour permettre au système d'écraser les données les plus « vieilles » ayant été enregistrées sur le disque dur, configurer l'option [Recycle Mode] sur ON.



Choisir la modalité d'enregistrement [Record Mode]

Accéder au menu de la modalité d'enregistrement en suivant ce parcours :

Main menu ⇒ Record ⇒ Record Mode.

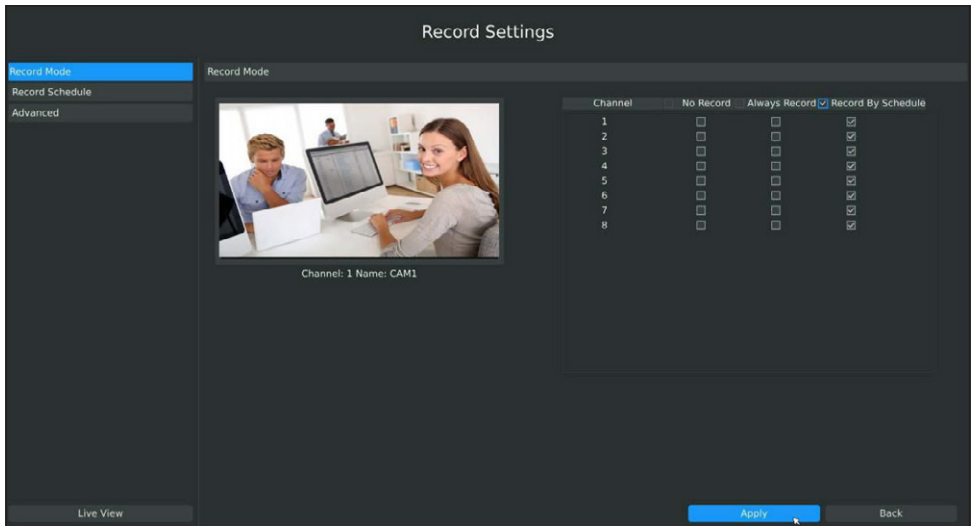
Il est possible, pour chaque canal, de choisir l'une des modalités d'enregistrement suivantes :

Aucun enregistrement [No Recording],

Enregistrement constant [Always record],

Enregistrement programmé [Record by schedule].

Appuyer sur le bouton Appliquer [Apply] pour valider les choix.



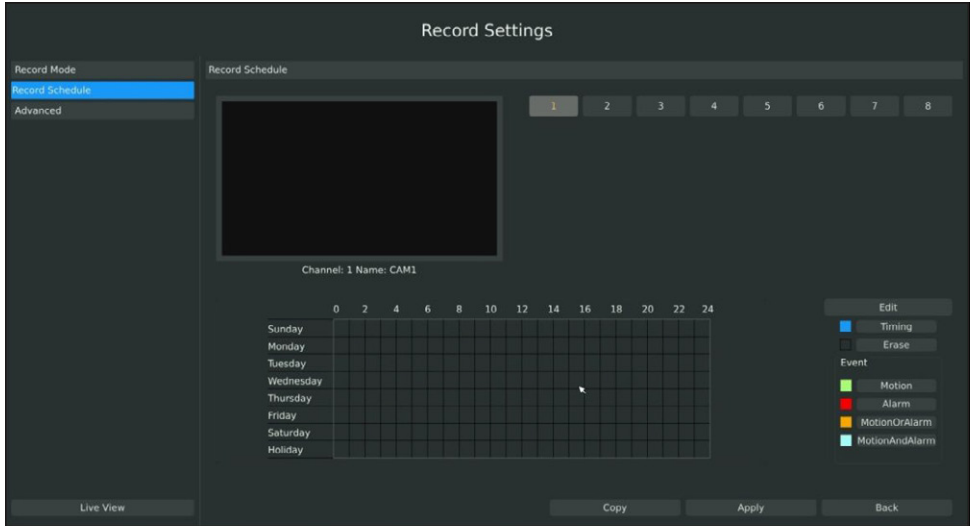
Configurer le programme d'enregistrement [Record Schedule]

Accéder au menu de la programmation d'enregistrement en suivant ce parcours :

Main menu ⇒ Record ⇒ Record Schedule.

Remarque : les jours prévus sont Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/Saturday/Holiday.

Le programme de jours fériés a la priorité sur celui des autres jours.

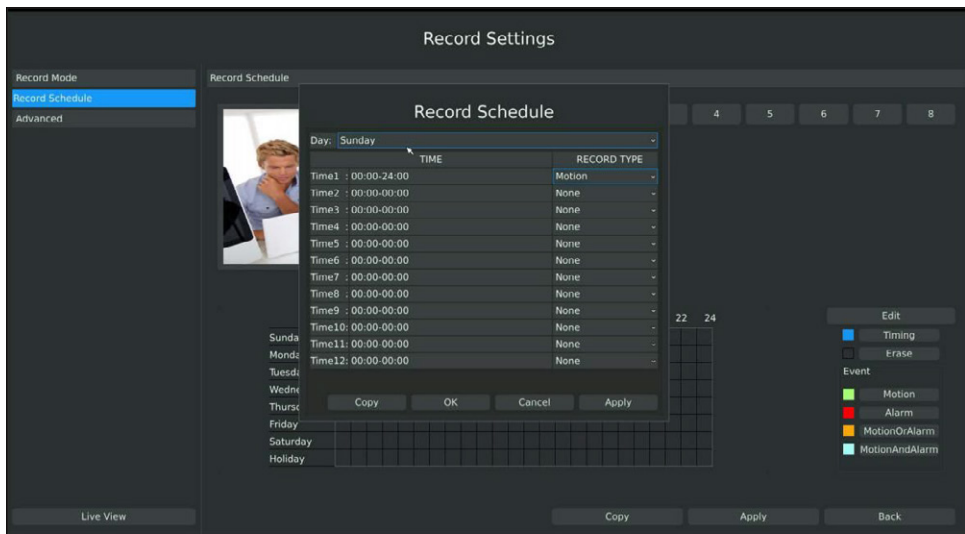


Sélectionner le canal souhaité (ex. : Channel 1) et cliquer sur le bouton Modifier [Edit].



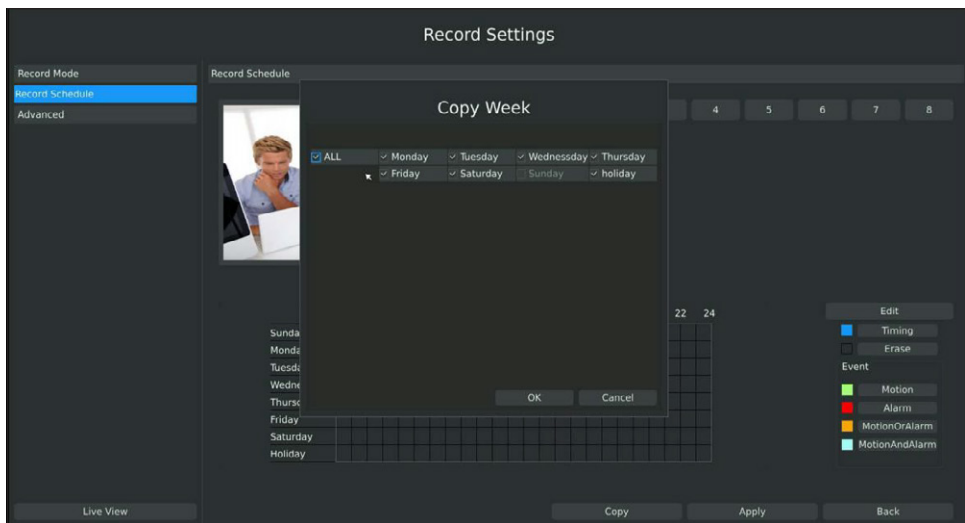
Sélectionner un jour dans le menu déroulant [Day] et sélectionner [Record Type] pour configurer la période d'enregistrement (il est possible de configurer jusqu'à 12 périodes comme, par exemple, 01:00 - 05:00 pour aucun enregistrement ; 06:00 - 18:00 pour l'enregistrement lié à la plage horaire ; 19:00 - 21:00 pour l'enregistrement lié au mouvement ; 22:00 - 24:00 pour l'enregistrement lié aux alarmes).

Remarque : les périodes de temps ne peuvent pas se superposer.



Copier la programmation sur d'autres jours de la semaine

Appuyer sur le bouton Copier [Copy] pour copier les configurations sur d'autres jours de la semaine. Appuyer sur le bouton Appliquer [Apply] pour valider les choix.



Au terme de la programmation, le canal est visualisé comme indiqué sur la figure.



Copier les configurations d'enregistrement sur d'autres canaux

Sélectionner [Copy] pour copier les mêmes configurations sur d'autres canaux, choisir le/les canaux sur lesquels copier et cliquer sur [OK] pour sauvegarder la configuration.



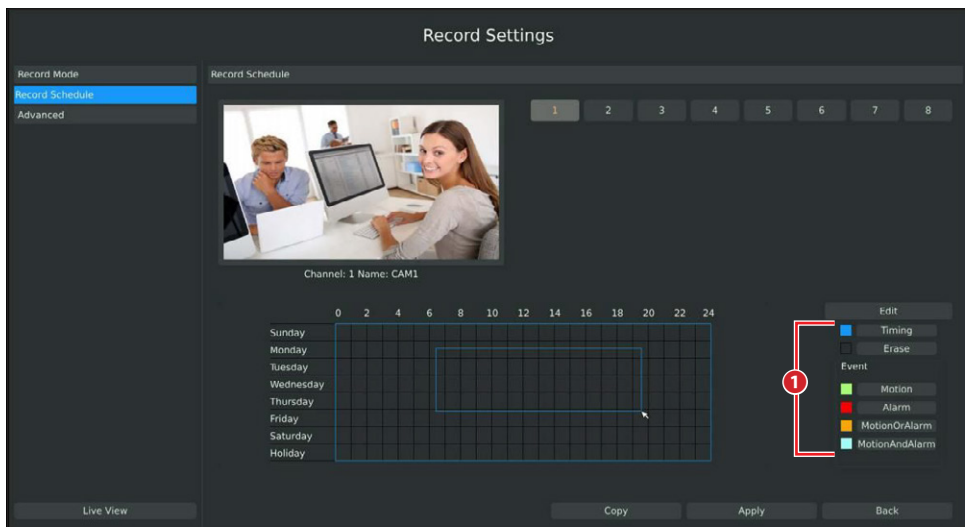
Appuyer sur le bouton Appliquer [Apply] pour valider les choix ou sur Précédent [Back] pour revenir au menu précédent.

Programmation de l'enregistrement par glisser/déplacer de la souris

Accéder au menu de la programmation d'enregistrement en suivant ce parcours :

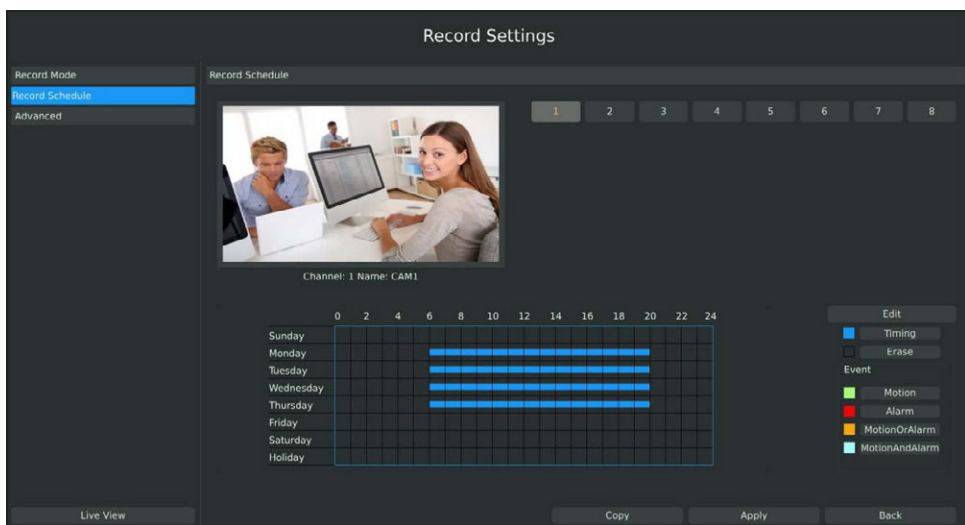
Main menu ⇒ Record ⇒ Record Schedule.

Sélectionner le canal à programmer.



1 Sélectionner la modalité d'enregistrement et « tracer » à l'aide de la souris, sur le graphique des heures/jours de la semaine, la zone d'exécution de l'enregistrement.

Appuyer sur le bouton Appliquer [Apply] pour valider les choix.



Sélectionner [Copy] pour copier les mêmes configurations sur d'autres canaux, choisir le/les canaux sur lesquels copier et cliquer sur [OK] pour sauvegarder la configuration.

CONFIGURATION P2P

L'application M-VMS permet d'accéder à la page « live » du NVR depuis un dispositif mobile.

Le service P2P permet la connexion au NVR sans effectuer les configurations de transfert du port sur le routeur.

Effectuer un clic droit de la souris sur la page en direct (Live) et choisir MENU ⇒ SYSTEM ⇒ NETWORK ⇒ P2P pour visualiser la page sur la figure.



1. Choisir « Activer » [Enable] dans le menu déroulant « P2P » ;
2. Appuyer sur le bouton « Appliquer » [Apply] pour valider les configurations.

REMARQUE : pour des motifs de sécurité il faudra, si le firmware du dispositif utilisé correspond à ceux indiqués ci-après, enregistrer la fonction P2P avant de l'utiliser.

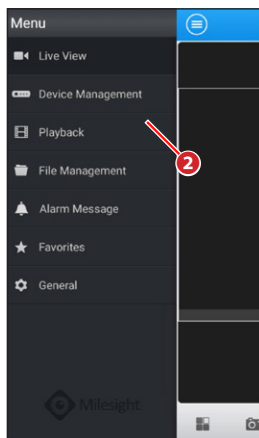
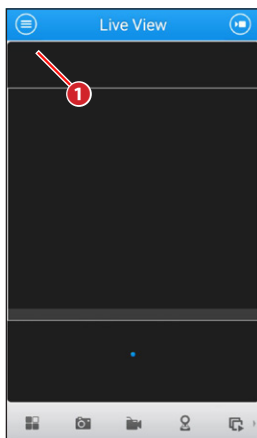
Si la version du firmware est 71.7.0.5-R13 ou supérieure ou bien 72.7.0.5-r13 ou supérieure, il est nécessaire de contacter le revendeur pour obtenir de l'assistance.

Dans le cas contraire, il suffit de sauvegarder les informations saisies sur la page « P2P ».

En cas d'échec de l'opération, contrôler ce qui suit :

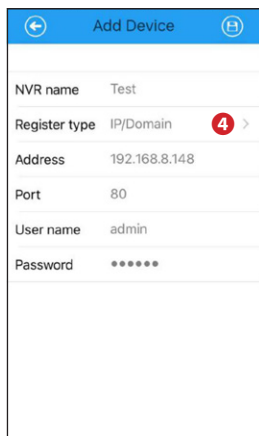
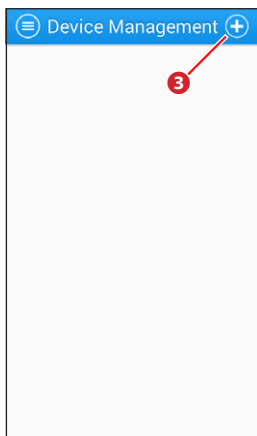
Erreur visualisée	Solution possible
Erreur de réseau [Network Error]	Contrôler l'état de la connexion au réseau
Échec de l'enregistrement [Register failed]	MAC address n'enregistre pas le P2P
Erreur inconnue [Unknown Error]	Contacteur l'assistance

Après l'activation, il est possible d'ajouter le NVR sur l'application M-VMS en scannant le code QR sur la page « P2P » ou en entrant l'adresse MAC manuellement.



Télécharger dans les stores spécifiques l'application M-VMS puis lancer l'application.

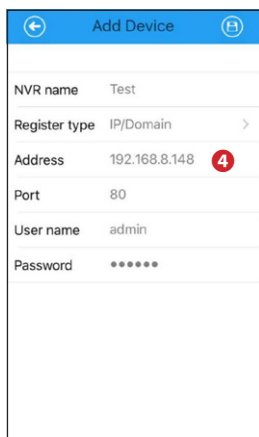
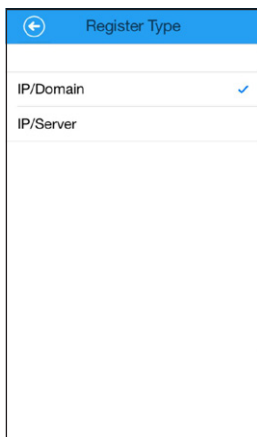
Toucher le bouton 1 puis le bouton 2.



Toucher le bouton 3 pour accéder à la fenêtre permettant d'ajouter un nouveau dispositif à la liste de ceux que le dispositif mobile peut atteindre.

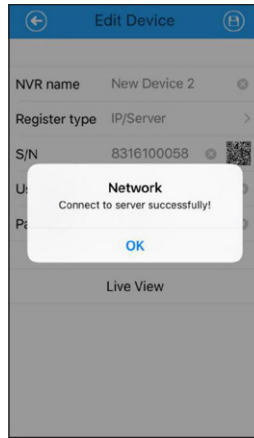
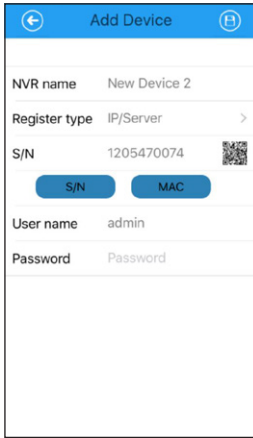
Attribuer un nom au dispositif.

Toucher le champ 4 pour choisir le type d'enregistrement au réseau.

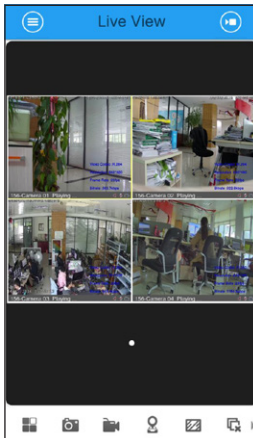


Il faut, en cas de sélection du champ IP/Domain, remplir les champs suivants manuellement.

Le champ 5 peut contenir une adresse IP locale, publique ou DDNS.

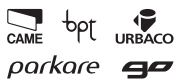


En cas de sélection de l'option IP/Server, cliquer sur le bouton MAC et scanner le code QR du NVR pour établir la connexion.



Français - Manuel FA00768-FR - vers. 1 - 04/2017 - © CAME S.p.A.
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CAME
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www.came.com

NETZWERKVIDEOREKORDER

FA00768-DE



MS-N5016-UH — MS-N5032-UH




MS-N7016-UH — MS-N7032-UH



MS-N8032-UH — MS-N8064-UH

ALLGEMEINE HINWEISE

-  Wichtige Sicherheitshinweise: BITTE SORGFÄLTIG DURCHLESEN!
- Die Montage, Programmierung, Inbetriebnahme und Wartung muss von ausgebildeten Fachtechnikern und gemäß den derzeit geltenden Vorschriften durchgeführt werden.
- Während der Säuberung und Wartung immer die Stromzufuhr unterbrechen.
- Das Gerät ist ausschließlich für den Zweck zu verwenden, für den es entwickelt wurde.
- Der Hersteller haftet in keinem Fall für durch ungeeignete, unsachgemäße und fehlerhafte Verwendung verursachte Schäden.

BESCHREIBUNG

Digitaler Netzwerkvideorekorder mit 4, 8, 16, 32 Eingängen.

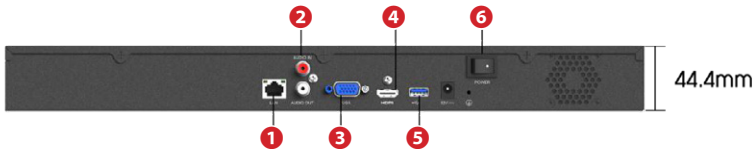
Technische Daten

Typ	MS-N5016-UH MS-N5032-UH	MS-N7016-UH MS-N7032-UH	MS-N8032-UH MS-N8064-UH
IP Videoeingänge (Anzahl der Kanäle)	16/32	16/32	32/64
IP Audioeingänge (Anzahl der Kanäle)	16/32	16/32	32/64
HDMI Videoausgänge	1	1	2
VGA Videoausgänge	1	1	2
Audio Ein-/Ausgänge (RCA)	1/1	1/1	1/1
Videokompression für Aufnahme	H.265 / H.264	H.265 / H.264	H.265 / H.264
Framerate der Aufnahme (fps)	1 - 25	1 - 25	1 - 25
Verfügbare SATA-Ports	2	4	8
Ethernet-Ports, RJ45	1x 100/1000 M	2x 10/100/1000 M	2x 10/100/1000 M
Serielle Schnittstellen, RS-485	-	2	2
USB-Ports 2.0	2	2	2
USB-Ports 3.0	1	1	1
Alarমেingänge	-	16	16
Alarmausgänge	-	4	4
Stromaufnahme ohne Harddisk (W)	≤ 15	≤ 15	≤ 35
Betriebstemperatur (°C)	-10 ~ +55	-10 ~ +55	-10 ~ +55
Feuchtigkeit bei Betrieb (%)	10 ~ 90	10 ~ 90	10 ~ 90
Abmessungen (mm)	440 x 251 x 44,4	440 x 320 x 66,8	440 x 420 x 88,2
Bandweite (mbps)	160/320	160/320	320
Unterstützte Auflösung für Aufnahme	8MP(UHD-2160P)/4MP/3MP/1080P/UXGA/720P/D1/VGA/CIF/QCIF		

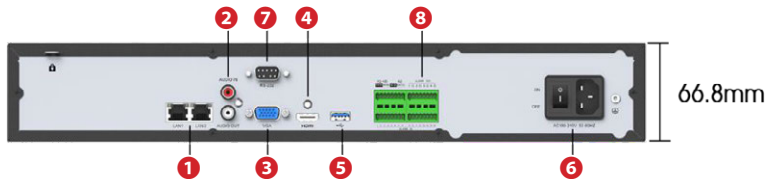
Typ		MS-N5016-UH MS-N5032-UH	MS-N7016-UH MS-N7032-UH	MS-N8032-UH MS-N8064-UH
Höchstzahl der im Playback synchronisierten Kanäle	25fps@D1	16/32	16/32	32/64
	25fps@720P	16/32	16/32	32
	25fps@1080P	16	16	16
	25fps@3MP	10	10	10
	25fps@4MP	8	8	8
	25fps@2160P (UHD)	4	4	4
	25fps@2160P (4K)	4	4	4

Beschreibung der Bestandteile

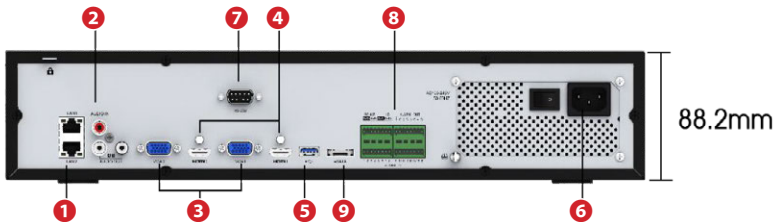
Hinterplatte MS-N5016-UH - MS-N5032-UH



Hinterplatte MS-N7016-UH - MS-N7032-UH



Hinterplatte MS-N8032-UH - MS-N8064-UH

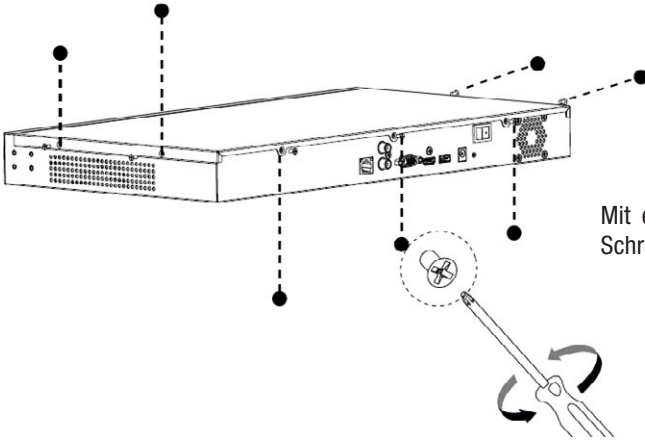


- 1 LAN-Port,
- 2 Audio Ein-/Ausgänge
- 3 VGA Videoausgang,
- 4 HDMI Videoausgang,
- 5 USB-Port 3.0,
- 6 Spannungsversorgung,
- 7 Steckplatz für Tastatur,
- 8 Alarm Ein-/Ausgänge,
- 9 Steckplatz für eSATA.

INSTALLATION DER FESTPLATTEN

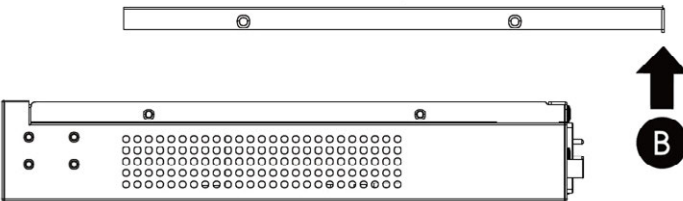
⚠ Während der Installation der Festplatten die Stromzufuhr unterbrechen

Installation der Festplatten in den Modellen: MS-N5016-UH - MS-N5032-UH.

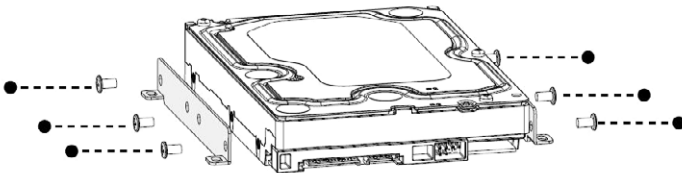


Mit einem Kreuzschraubendreher die Schrauben der Hinterplatte entfernen.

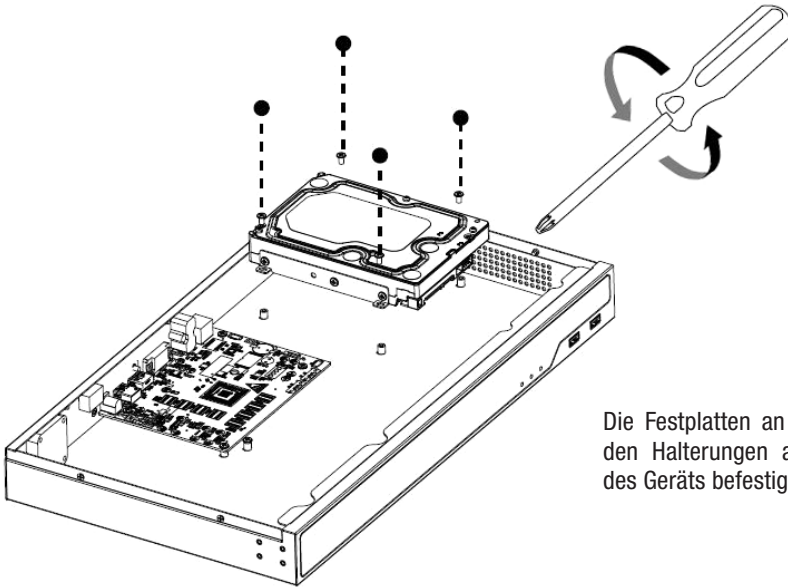
A →



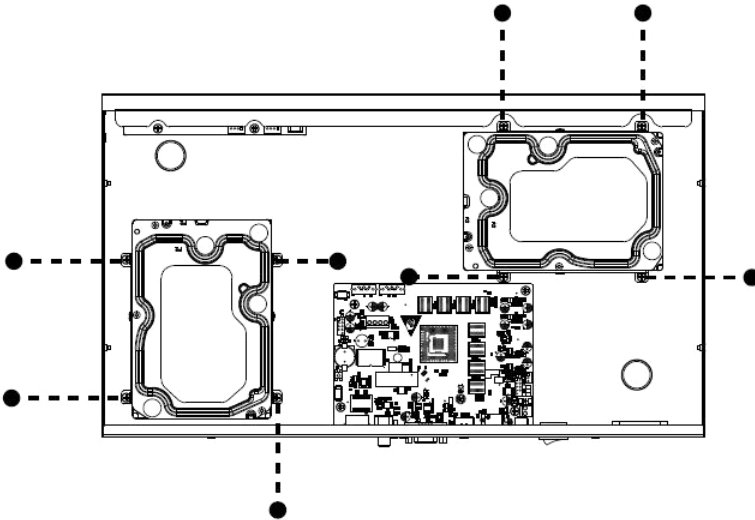
Die obere Platte des Geräts nach hinten schieben und anheben.



Die Halterungen, wie in der Abbildung dargestellt, an der Festplatte anbringen.

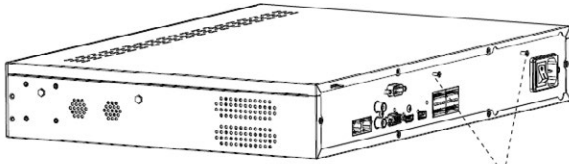


Die Festplatten an den entsprechenden Halterungen an der Unterplatte des Geräts befestigen.

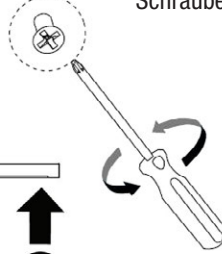


Prüfen, ob alle Schrauben gut angezogen sind, das Netzkabel und das Datenkabel an jede HDD anschließen. Die Oberplatte wieder schließen.

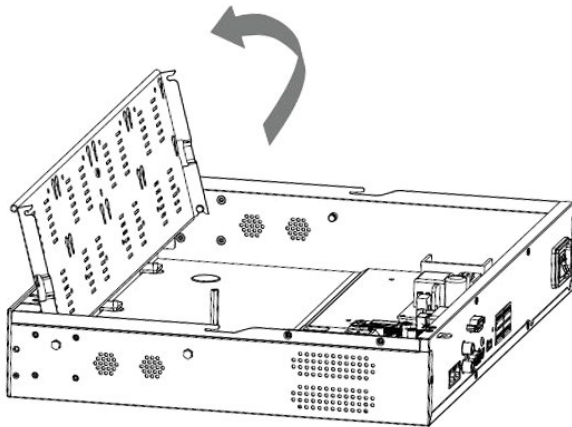
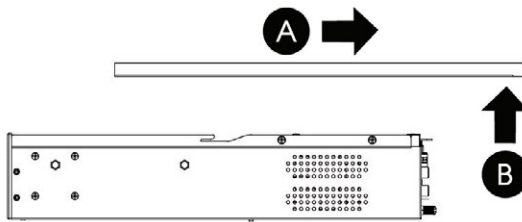
Installation der Festplatten in den Modellen: MS-N7016-UH - MS-N7032-UH.



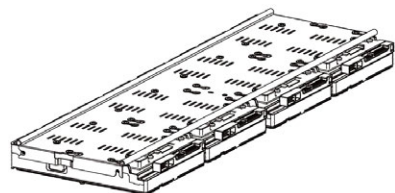
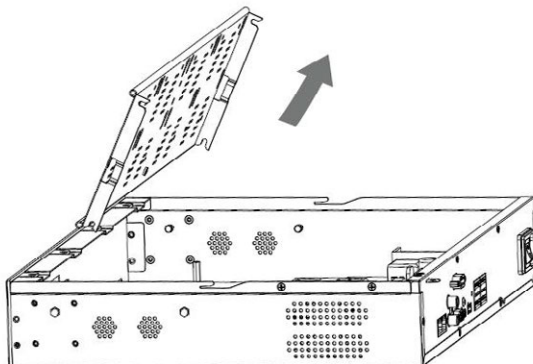
Mit einem Kreuzschraubendreher die Schrauben der Hinterplatte entfernen.



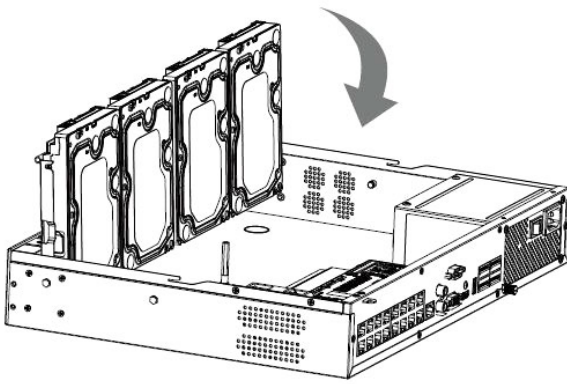
Die obere Platte des Geräts nach hinten schieben und anheben.



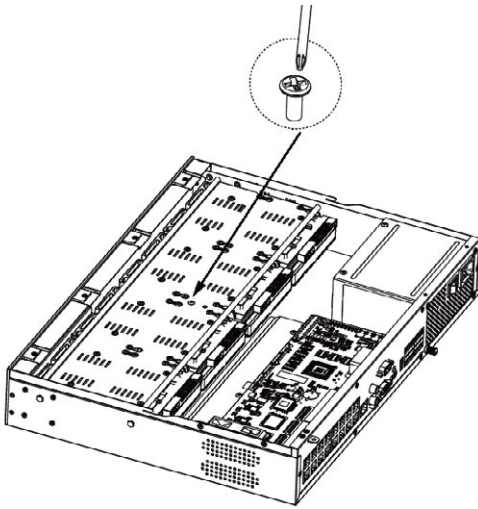
Wie in der Abbildung dargestellt, kann das Gehäuse der Festplatten entfernt werden.



Die Festplatten in die dafür vorgesehene Stelle einlegen.



Das Gehäuse wieder anbringen.

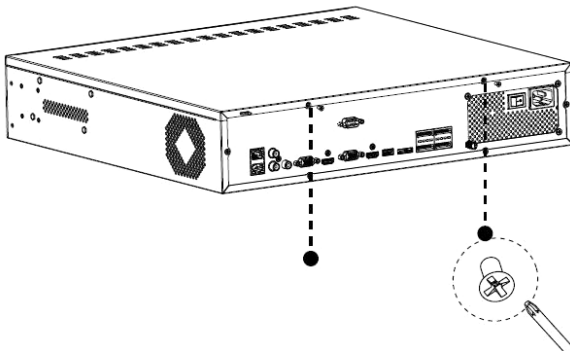


Prüfen, ob die 16 Schrauben der HDD-Halterung gut angezogen sind.

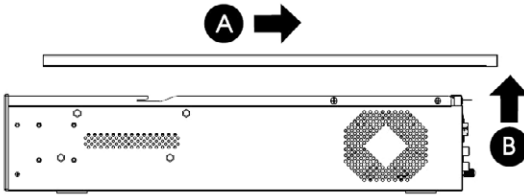
Die Halterung mit der mittleren Schraube am Gerät anbringen.

Das Netzkabel und das Datenkabel an jede Festplatte anschließen und die Oberplatte wieder schließen.

Installation der Festplatten in den Modellen: MS-N8032-UH - MS-N8064-UH.



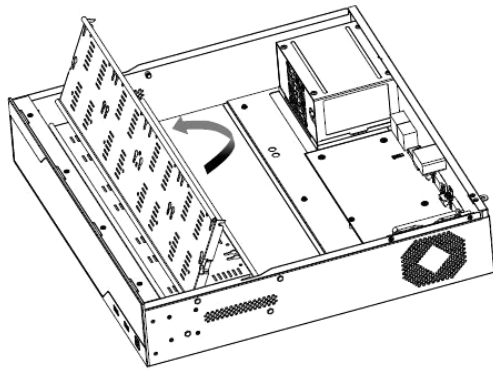
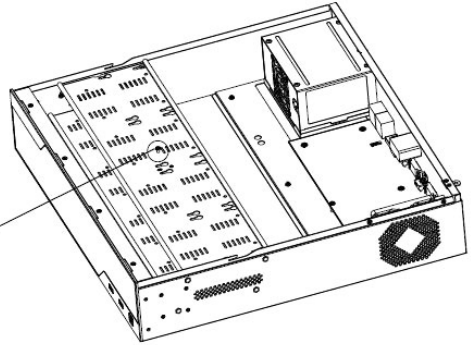
Mit einem Kreuzschraubendreher die Schrauben der Hinterplatte entfernen.



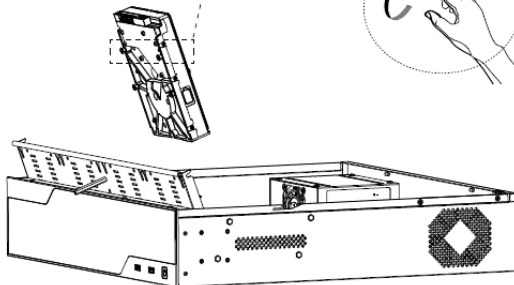
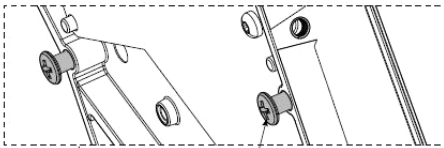
Die obere Platte des Geräts nach hinten schieben und anheben.



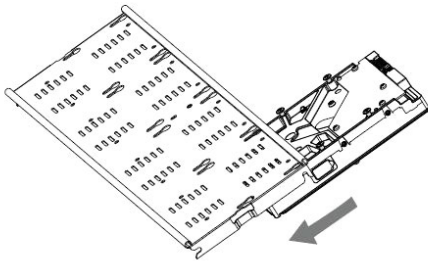
Die Schraube in der Mitte der Festplattenhalterung entfernen.



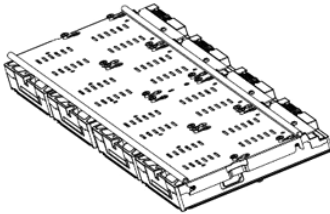
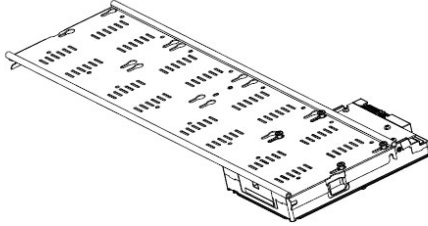
Das Gehäuse kann, wie in der Abbildung dargestellt, geöffnet werden.



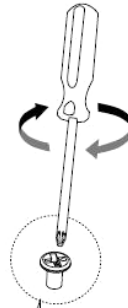
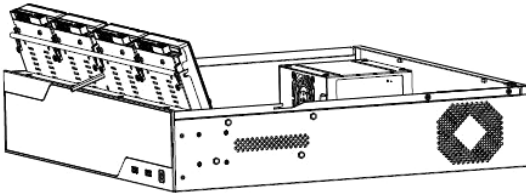
Vier Schrauben an den auf jeder Festplatte vorhandenen Halterungen anziehen, darauf achten, dass der Schraubkopf ca. 4 mm aus dem Loch herausragt.



Die Festplatten in die Halterung legen, dabei die herausragenden Schraubköpfe in die entsprechenden Löcher stecken; die Festplatten, wie in der Abbildung dargestellt, einschieben und anschließend die Schrauben anziehen.



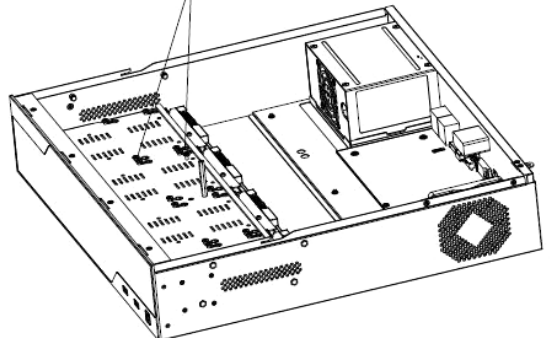
Alle Festplatten an der entsprechenden Stelle einlegen und das Gehäuse wieder anbringen.



Prüfen, ob die Schrauben der HDD-Halterung gut angezogen sind.

Die Halterung mit der mittleren Schraube am Gerät anbringen.

Das Netzkabel und das Datenkabel an jede Festplatte anschließen und die Oberplatte wieder schließen.

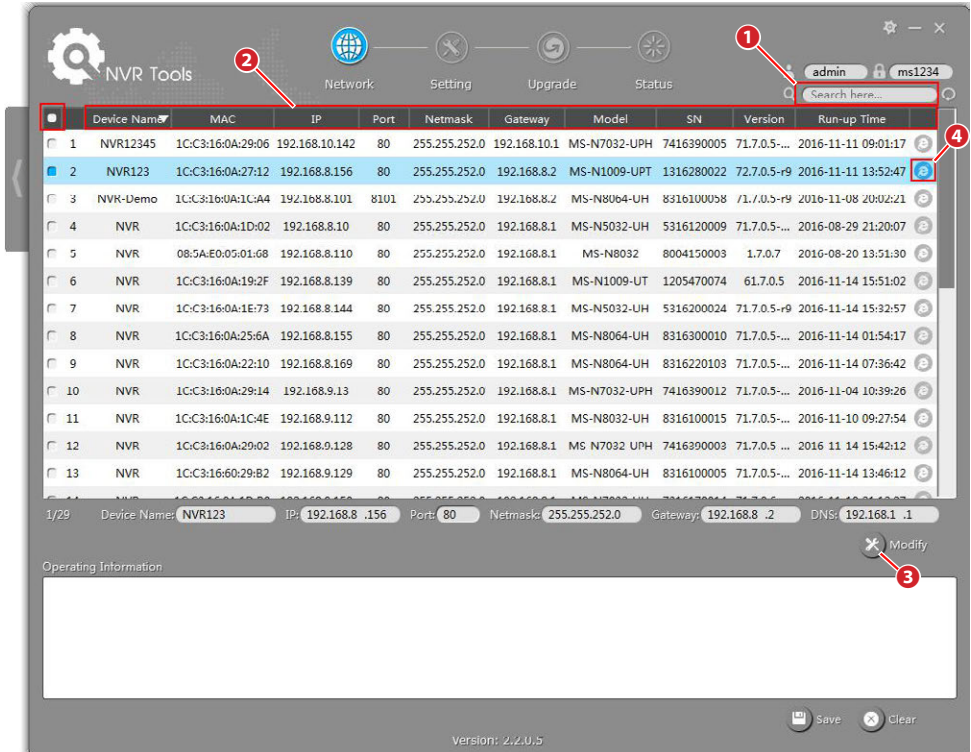


DEN NVR EINSCHALTEN

Den NVR mithilfe von Smart Tools suchen

Wenn Sie die IP-Adresse des NVR nicht kennen, können Sie die App Smart Tools, die alle in einem LAN-Netzwerk eingebundenen NVR Milesight Rekorder automatisch erfasst, verwenden.

Um die IP-Adresse eines NVR zu finden, wie folgt vorgehen:



- 1 Die Seriennummer (SN) oder die MAC-Adresse in das Suchfenster eingeben, um den gewünschten NVR zu finden;
- 2 im Bereich werden alle angeschlossenen NVR angezeigt; den gewünschten NVR auswählen und auf die Taste 3 drücken, um dessen Parameter zu ändern (z.B. IP-Adresse, Port, Netzmarke, Gateway und DNS). Wieder auf die Taste 3 drücken, um die Einstellungen zu speichern (Werkseinstellung der IP-Adresse des NVR: 192.168.5.200)
- 4 Mit der Taste Browser können Sie direkt auf die Webseite, in der der NVR verwaltet wird, zugreifen (in der Werkseinstellung sind der Benutzername und das Passwort des NVR jeweils "admin" und "ms1234").

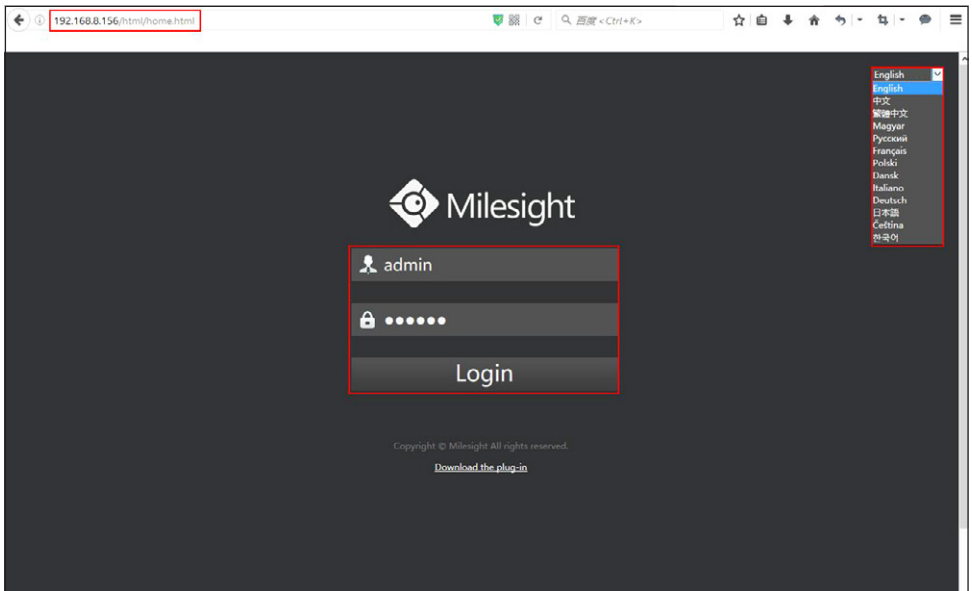
Hinweis: Weitere Angaben zur App Smart Tools - siehe die Gebrauchsanleitung.

Zugriff auf den NVR über WEB

Anmelden

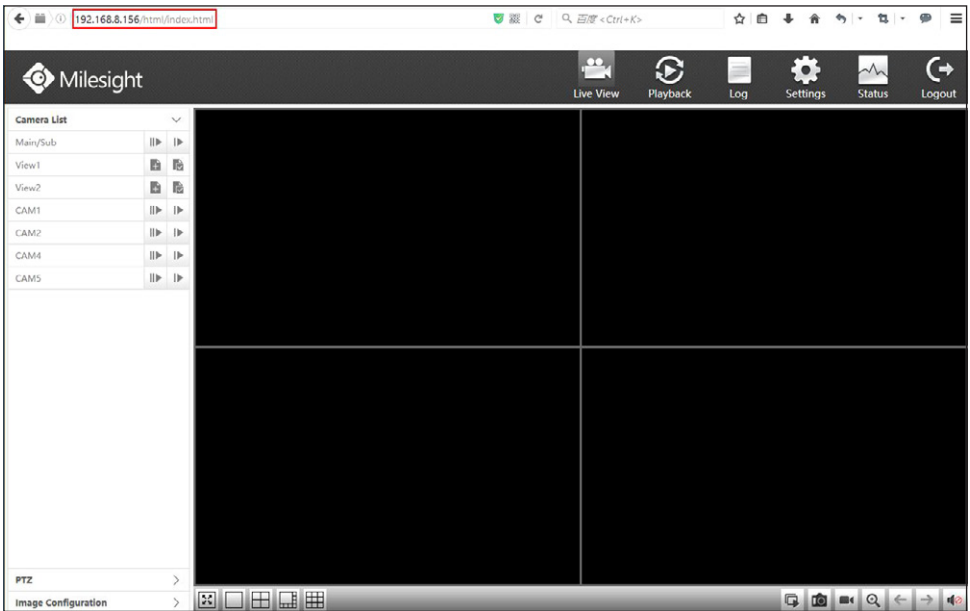
Wenn der NVR im Netz eingebunden ist, können Sie über das WEB mit der IP-Adresse auf ihn zugreifen.

1. Firefox oder einen anderen Browser öffnen;
2. In der Adressenleiste des Browsers die IP-Adresse des Geräts eingeben (z.B.: http://192.168.8.156);
3. Bevor Sie den Benutzernamen und das Passwort (in der Werkseinstellung jeweils “admin” und “ms1234”) eingeben, die Sprache der Benutzeroberfläche wählen.
4. Drücken Sie auf Login, um die Live View Seite zu öffnen.



Hinweise:

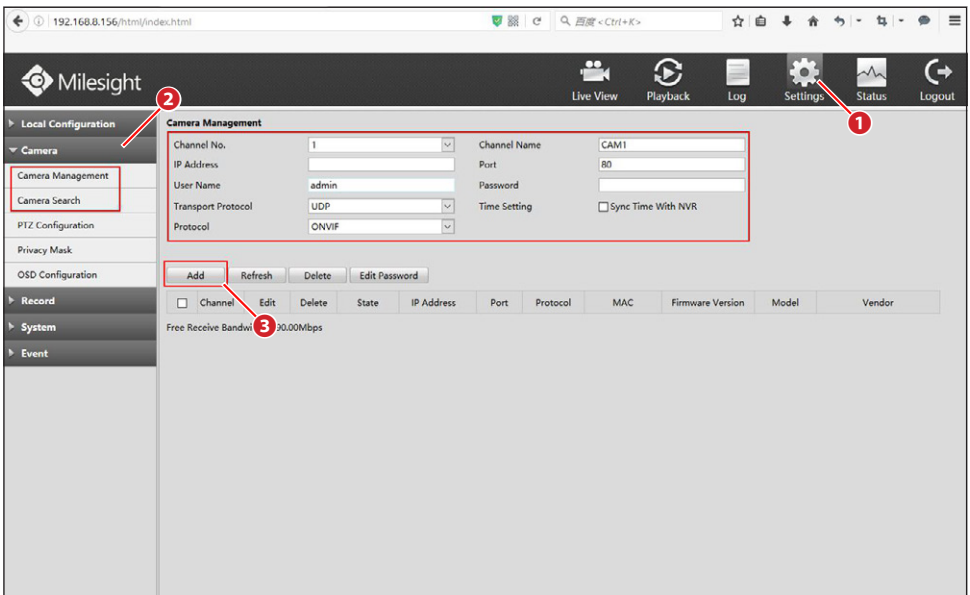
1. Wenn das HTTP-Port nicht 80 (Werkseinstellung) ist, müssen Sie nach der IP-Adresse die Port-Nummer eingeben (z.B.: http://192.168.8.156:90).
2. Wenn Sie zum ersten Mal über Web auf den NVR zugreifen, müssen Sie das Plugin installieren. Vor der Installation den Browser schließen.




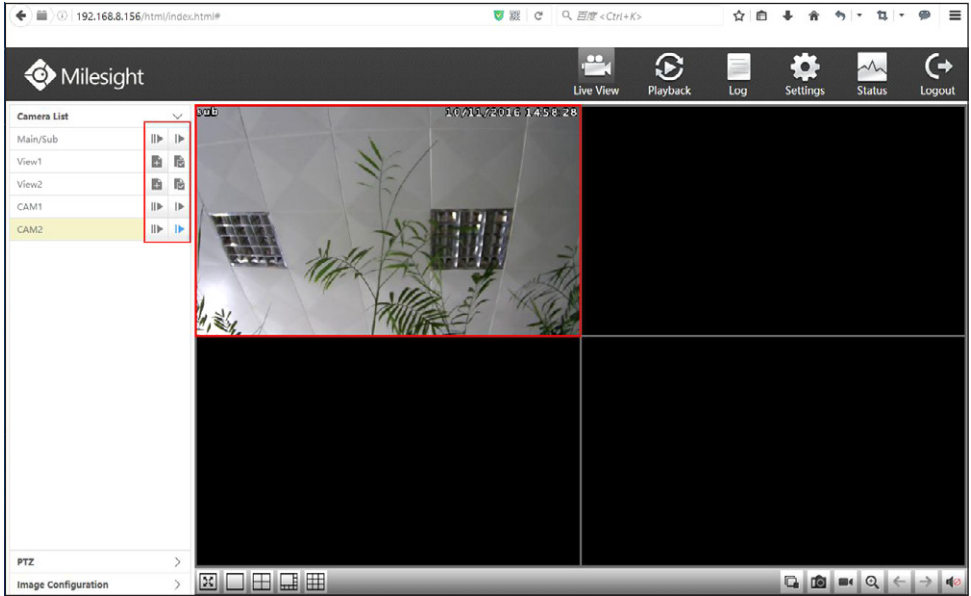
Live View (Fenster der Live-Aufnahmen)

Wenn Sie, nachdem Sie auf den NVR zugegriffen haben, weitere Überwachungskameras hinzufügen wollen, auf die Symboltaste **1** drücken und den Bereich, in dem die Kameras eingestellt werden, durch Druck auf die Taste **2** öffnen, die für die Verbindung zu den Überwachungskameras notwendigen Informationen in die entsprechenden Felder eingeben.

Drücken Sie auf die Taste **3** um die Überwachungskamera dem Verzeichnis hinzuzufügen.



Nachdem Sie die Überwachungskameras hinzugefügt haben, auf die Taste  drücken, um die Vorschau aufzurufen (der Benutzername und das Passwort der Überwachungskamera sind jeweils “admin” und “ms1234”).

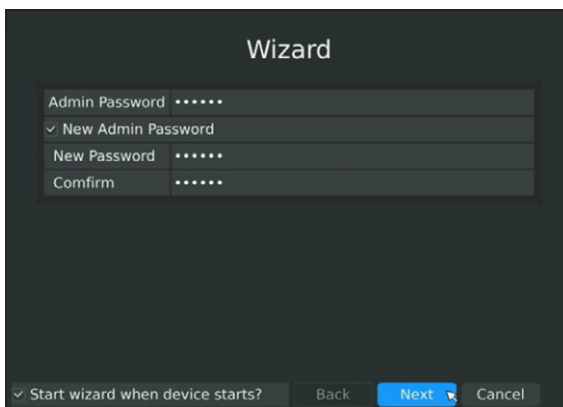


Konfigurationsassistent

In der Werkseinstellung öffnet sich der Konfigurationsassistent sofort nachdem Sie den Videorekorder eingeschaltet haben. Der Konfigurationsassistent hilft bei der Einstellung einiger wichtigen Daten und gewährleistet den ordnungsgemäßen Betrieb des Geräts. Sie können wählen, ob der Konfigurationssassistent nachdem Sie das Gerät starten, aktiviert werden soll.

Hinweis: Die vom Konfigurationsassistenten (Wizard) eingestellten Daten können jederzeit geändert werden.

Bei der Konfiguration, wie folgt vorgehen:



Wizard

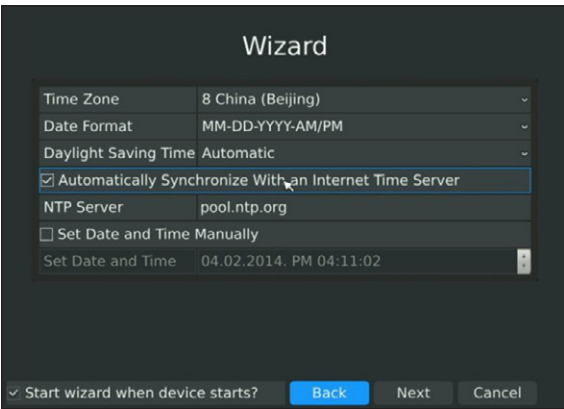
Admin Password	*****
<input checked="" type="checkbox"/> New Admin Password	
New Password	*****
Confirm	*****

Start wizard when device starts? Back **Next** Cancel

Anmeldedaten

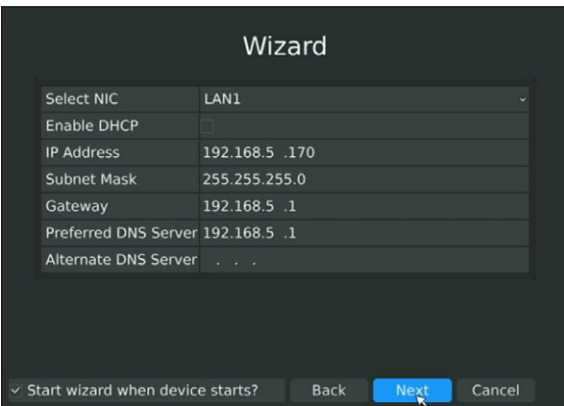
Den Benutzernamen und das Passwort eingeben (in der Werkseinstellung: Benutzername ‘admin’, Passwort ‘ms1234’).

Wenn Sie das Passwort ändern wollen, ein neues Passwort eingeben.



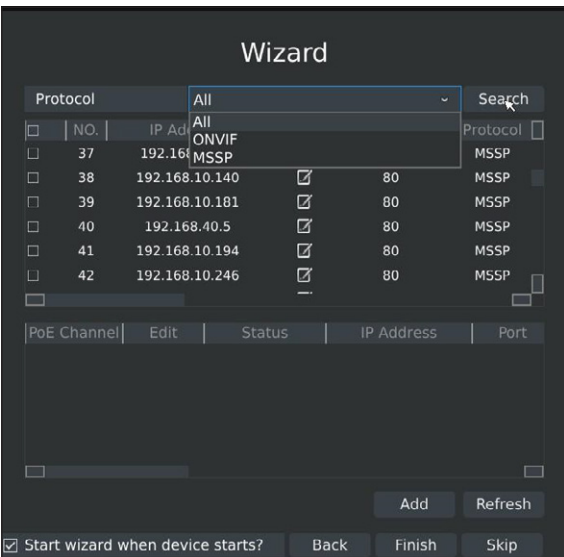
Datum und Uhrzeit einstellen.

Die Zeitzone (Time Zone) und das Datumsformat (Date Format) wählen oder Datum und Uhrzeit von Hand eingeben.



Netzwerkeinstellungen.


IP-Adresse (IP Address), Subnetzmaske (Subnet Mask), Gateway und den bevorzugten DNS-Server (Preferred DNS Server) eingeben.

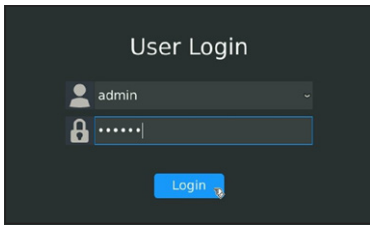


Überwachungskameras hinzufügen

Das Gerät listet alle angeschlossenen Überwachungskameras, die erfasst wurden, auf.

Die gewünschten Kameras auswählen und dem Gerät hinzufügen.

Durch Druck auf die Symboltaste  können Sie die IP-Adresse der gewählten Überwachungskamera ändern, damit diese mit der des NVR kompatibel ist.



Anmelden (Login)

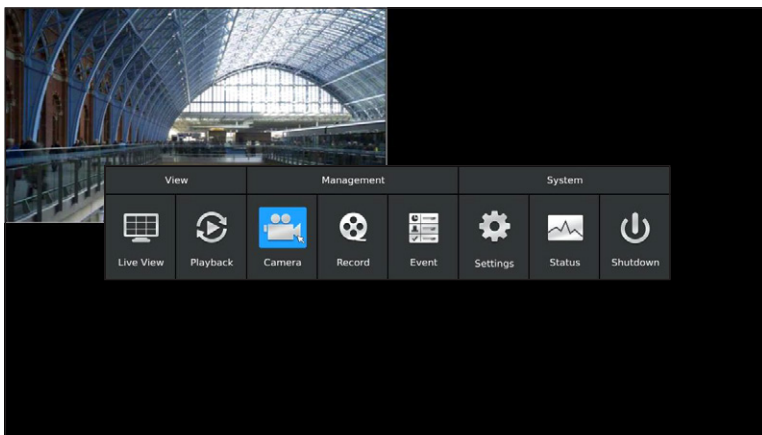
Den Benutzernamen und das Passwort (Werkseinstellung: "admin" und "ms1234" eingeben.

ALLGEMEINE GERÄTEEINSTELLUNGEN

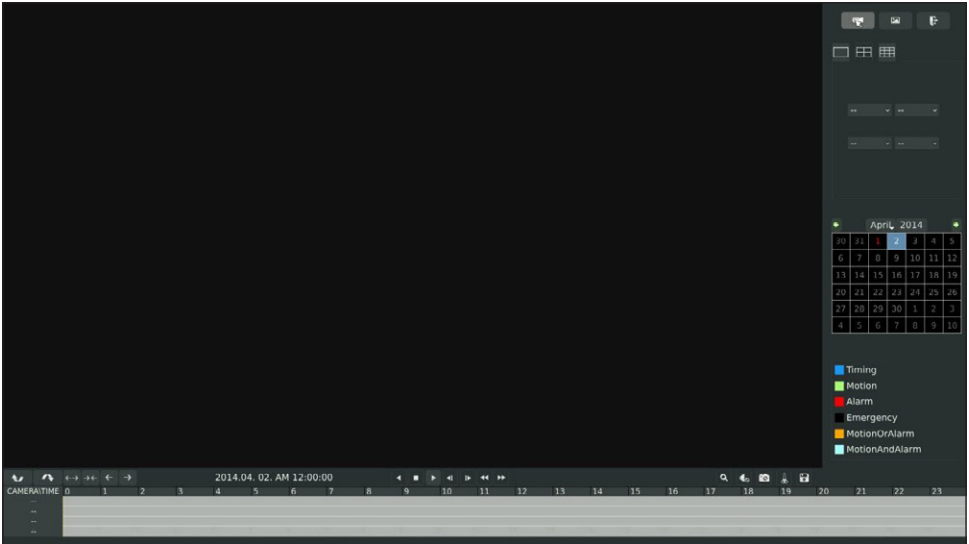
Live view (Live-Aufnahmen)


Nach Eingabe der Anmeldedaten für den NVR, sind die Aufnahmen der eingebundenen Überwachungskameras am Bildschirm sichtbar.

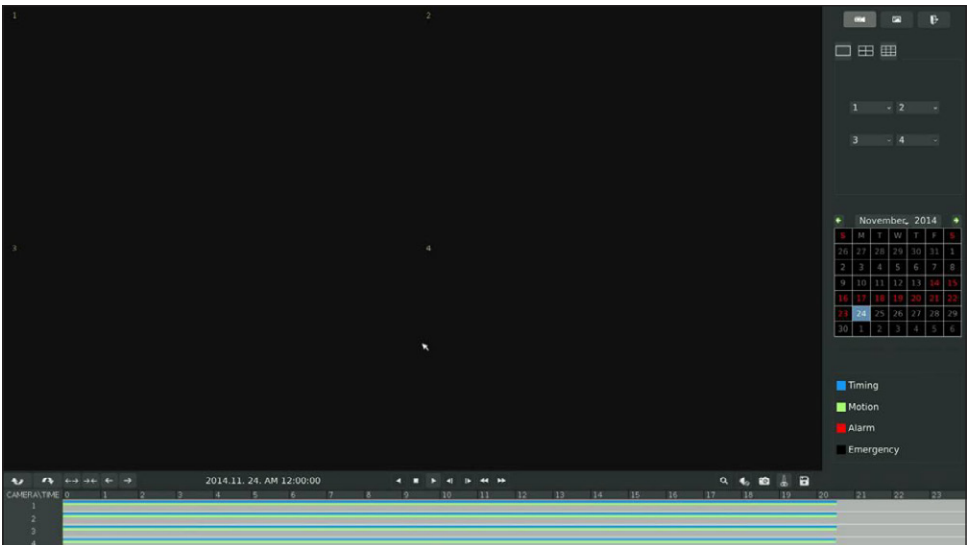
Wenn Sie die rechte Maustaste an einer beliebigen Stelle im Bildschirm klicken, öffnet sich eine Menü, mit dem Sie das Konfigurationsmenü (siehe Abbildung) öffnen können.



Playback (Wiedergabe)



Den Kanal und das Wiedergabelayout wählen. Klicken Sie auf das rot gekennzeichnete Datum, wenn in den gewählten Kanälen Aufnahmen vorhanden sind (die Art der Aufnahme und deren Daten, werden wie im Folgenden beschrieben, angezeigt) und klicken Sie anschließend auf , um die Aufnahme abzuspielen.



Hinweise:

1. Rot gekennzeichnete Tage enthalten gespeicherte Aufnahmen; wählen sie dieses Datum, um die Aufnahmen abzuspielen.
2. Sie können bis 16 Kanäle wählen, die synchron abgespielt werden.

Beschreibung der Symbolleiste der Video-Wiedergabe



Mit der Symbolleiste können Sie Multievent-Aufnahmen aufrufen; die Farbe der Bänder zeigt an, welches Ereignis zu einem bestimmten Zeitpunkt stattgefunden hat:

- Blau --- Uhrzeit
- Grün --- Bewegung
- Rot --- Alarm
- Schwarz --- Störung

Aus der oben dargestellten Symbolleiste ist ersichtlich, dass sich im entsprechenden Zeitraum Ereignisse, die die Uhrzeit und die Bewegung betreffen, ereignet haben.

Erklärung der Befehlstasten

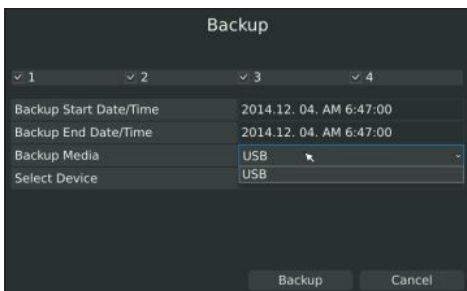
- Zurückspulen
- Stopp-Taste
- Wiedergabe
- Pause
- Rückwärts springen
- Vorwärts springen
- Schneller Rücklauf
- Schneller Vorlauf
- 4 vorherige Kameras
- 4 folgende Kameras
- Zeitachse rückwärts
- Zeitachse vorwärts
- Zeitachse vergrößern
- Zeitachse verringern
- Zeitachse
- Wiedergabeposition
- Zeitachse Schnittbeginn
- Zeitachse Schnittende
- Audio On
- Audio Off
- Foto
- Backup

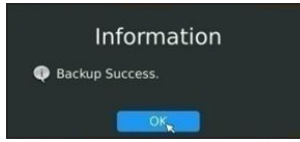
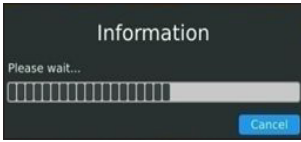
Backup der Videodateien

Die aufgenommenen Dateien können auf verschiedenen Geräten (z.B. USB-Sticks, USB-HDD, USB-Brenner, CD/DVD-Brenner, eSATA-Disks usw.) gespeichert werden.

In der Schnittstelle Video abspielen, den Kanal und das Aufnahmedatum, die gespeichert werden sollen, wählen.

1. Die Anfangsuhrzeit des Videofragments, das gespeichert werden soll, in der Zeitachse angeben.
2. Auf die Symboltaste klicken; die Symboltaste wechselt in und zeigt somit den Schnittbeginn an.
3. Die Enduhrzeit des Videofragments, das gespeichert werden soll, auf der Zeitachse angeben.
4. Auf die Symboltaste klicken; die Symboltaste wechselt in und zeigt somit das Schnittende an.
5. Die Symboltaste wählen, um auf die Backup-Benutzeroberfläche zuzugreifen
6. Das Speichermedium, auf dem gespeichert werden soll, wählen und auf [Backup] klicken.

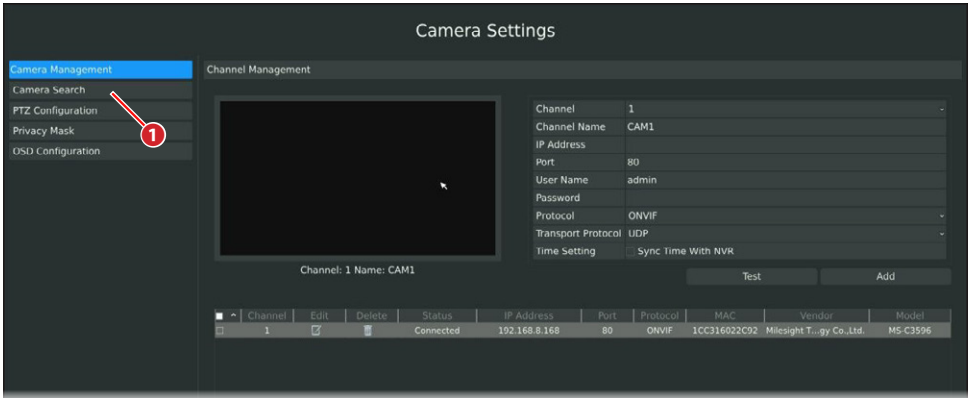




Abwarten, bis der Speichervorgang abgeschlossen ist.

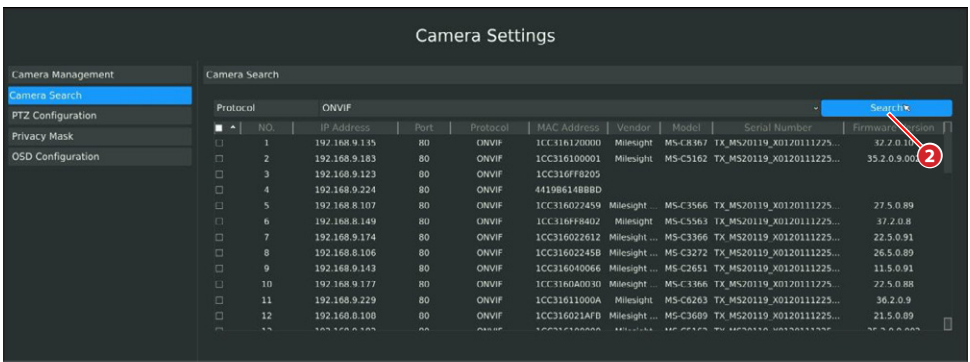
Kamerakonfiguration

Prüfen, ob die IP-Überwachungskamera zum selben Netzwerk des Videorekorders gehören und dass die Netzwerkeinstellungen des Videorekorders richtig sind.

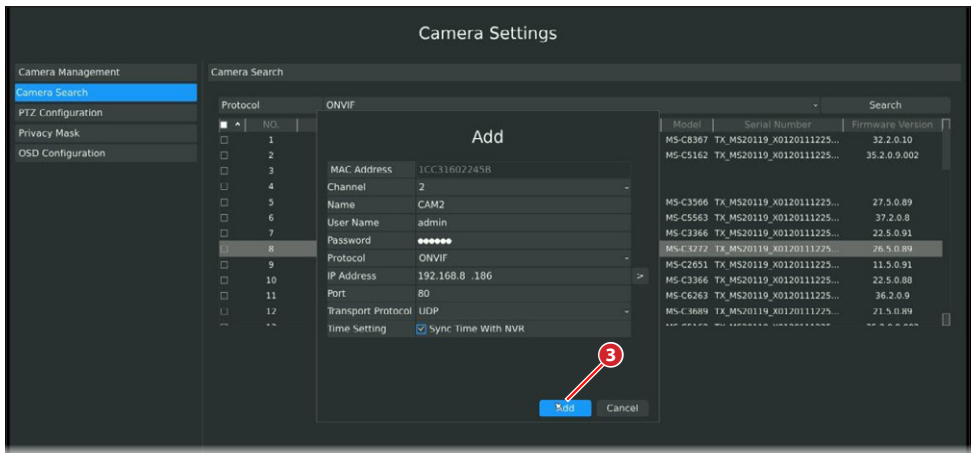


Fügen Sie mithilfe der Such-Benutzeroberfläche eine IP-Kamera hinzu

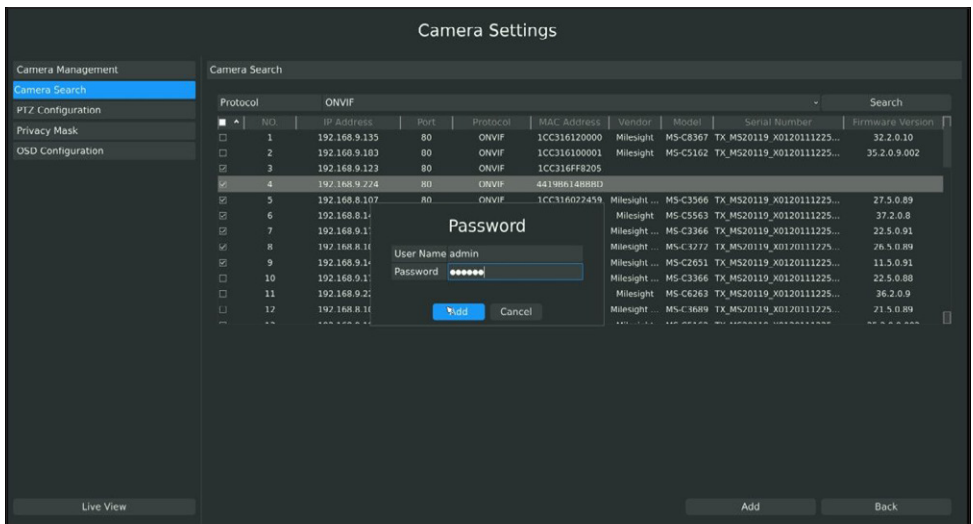
1. Wählen Sie das Tab **1**.



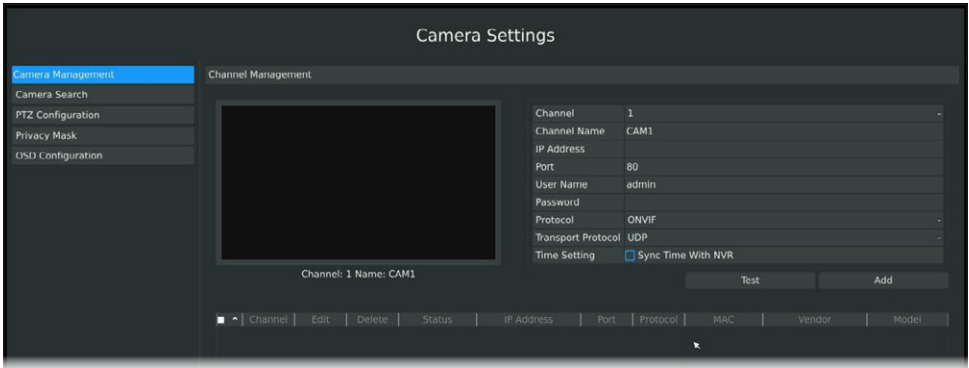
2. Drücken Sie auf die Taste **2**.



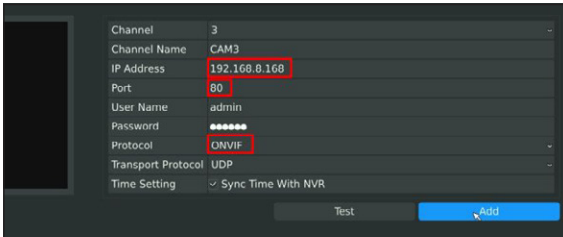
3. Klicken Sie nun zweimal auf das Gerät, das hinzugefügt werden soll, geben Sie das Passwort ein und drücken Sie auf die Taste **3**. Sie können auch mehrere IP-Kameras, die dasselbe Passwort haben, wählen.



Eine IP-Überwachungskamera von Hand hinzufügen

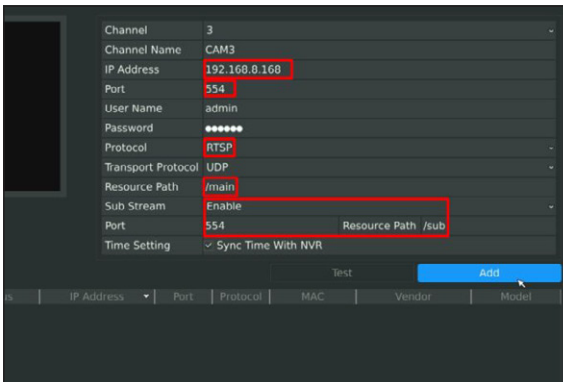


Wählen Sie einen nicht belegten Kanal, füllen Sie alle erforderlichen Felder aus und klicken Sie auf die Taste [Add]. Sie können unter 3 kompatiblen Protokollen wählen:



ONVIF Protokoll

Sie können jede ONVIF-kompatible IP-Kamera hinzufügen. Die Formate sind in der Abbildung genau angegeben

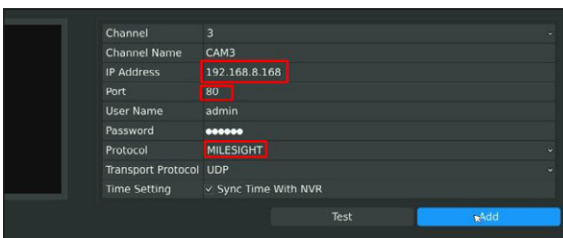


RTSP Protokoll

Sie können jede IP-Kamera, die für die Verwaltung der Videoströme das RTSP Protokoll verwendet, hinzufügen.

Sie müssen das Port 554 wählen und den "resource path" der Überwachungskamera eingeben.

Bei einem Milesight-Gerät lautet der Hauptstrom "/main" und der Nebenstrom "/sub" (siehe Abbildung).



MSSP Protokoll

Wenn es sich bei der IP-Kamera um ein Milesight-Gerät handelt, können Sie die Überwachungskameras mit diesem Protokoll hinzufügen. (siehe Abbildung).

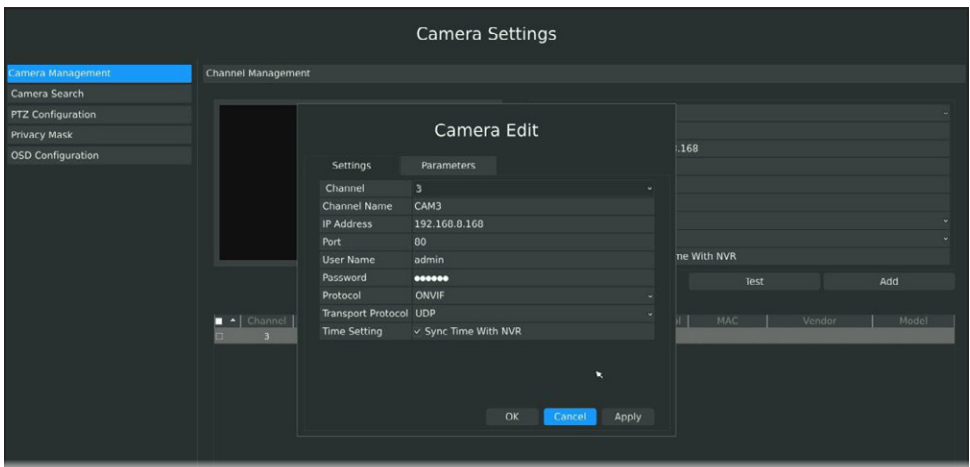
Den Verbindungsstatus prüfen

Channel	Edit	Delete	Status	IP Address	Port	Protocol	MAC	Vendor	Model
1	<input checked="" type="checkbox"/>		Connected	192.168.5.168	80	ONVIF	1cc3160a014e	Milesight T...gy Co.,Ltd.	MS-C3366
2	<input checked="" type="checkbox"/>		Connected	192.168.5.169	80	ONVIF	1cc316020046	Milesight T...gy Co.,Ltd.	MS-C3658
3	<input checked="" type="checkbox"/>		Connected	192.168.5.153	80	ONVIF	1cc31601024f	Milesight T...gy Co.,Ltd.	MS-C2662
5	<input checked="" type="checkbox"/>		Connected	192.168.5.191	80	ONVIF	1cc316020059	Milesight T...gy Co.,Ltd.	MS-C3658
6	<input checked="" type="checkbox"/>		Connected	192.168.5.192	80	ONVIF	1cc31602002b	KAREL	NBE-213RM-24
7	<input checked="" type="checkbox"/>		Connected	192.168.5.152	80	ONVIF	1cc316080009	Milesight T...gy Co.,Ltd.	MS-C3662

Nachdem Sie die IP-Kanäle hinzugefügt haben, auf [Refresh] drücken; der Verbindungsstatus [state] wird als [connected] angegeben. Wenn dies nicht der Fall ist, die Netzwerkverbindung, das Benutzerwort und das Passwort kontrollieren.

Einstellungen einer Überwachungskamera ändern


Sie können die den Kanal, die IP-Adresse, das Passwort usw. betreffenden Angaben erneut aufrufen. Den Kanal wählen und auf drücken oder zwei Mal auf den gewünschten Kanal klicken.

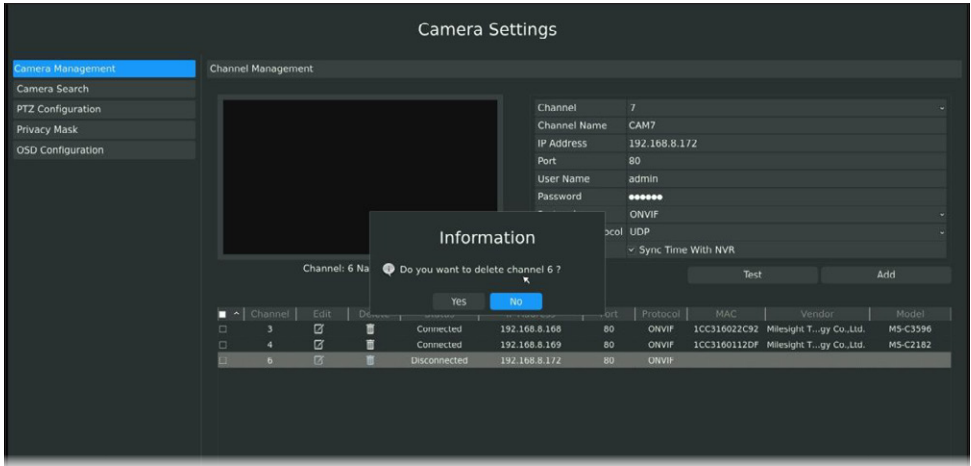


Die Einstellungen der Überwachungskamera nach Wunsch ändern und die Änderungen mit der Taste "Apply" bestätigen.

Hinweis: in der Grundeinstellung entsprechen der Benutzername und das Passwort den vorgegebenen, das Port ist 80 und das Protokoll ist UDP.

Eine oder mehrere Kameras entfernen

Auf die Symboltaste  drücken, um die gewählte Überwachungskamera zu löschen oder mehrere Kameras wählen und danach auf **Delete** drücken, um sie zu löschen.



The screenshot shows the 'Camera Settings' interface. On the left, there is a sidebar with 'Camera Management' selected. The main area is titled 'Channel Management' and contains a table of channels. A modal dialog titled 'Information' is open, asking 'Do you want to delete channel 6?'. The dialog has 'Yes' and 'No' buttons. The table below the dialog shows the following data:

Channel	Edit	Delete	Status	IP Address	Port	Protocol	MAC	Vendor	Model
3			Connected	192.168.8.168	80	ONVIF	1CC316022C92	Milesight Technology Co., Ltd.	MS-C3596
4			Connected	192.168.8.169	80	ONVIF	1CC3160112DF	Milesight Technology Co., Ltd.	MS-C2182
6			Disconnected	192.168.8.172	80	ONVIF			

Die Aufnahme konfigurieren

Festplatte vorbereiten

Prüfen, ob eine Festplatte im Videorekorder installiert und initialisiert wurde.

Die Verwaltungsschnittstelle der Festplatte öffnen:  System Settings ⇒ Disk Management.



The screenshot shows the 'System Settings' interface with 'Disk Management' selected in the sidebar. The main area displays a table of disk configurations:

Port	Vendor	Status	Total (GB)	Used (GB)	Free (GB)	HDD Type	In Use	Recycle Mode
2	SAMSUNG HD160J	FORMAT...	156	105	42	LOCAL	*	ON

Below the table, the following capacity information is shown:

Total Capacity (GB) 156
Available Capacity (GB) 42

Prüfen, ob der Speicherplatz ausreicht.

Damit "ältere" Daten, die in der Festplatte gespeichert sind, überschrieben werden können, die Option [Recycle Mode] auf ON stellen.



Den Aufnahmemodus wählen [Record Mode]

Das Menü der Aufnahmeweise öffnen:

Main menu ⇒ Record ⇒ Record Mode.

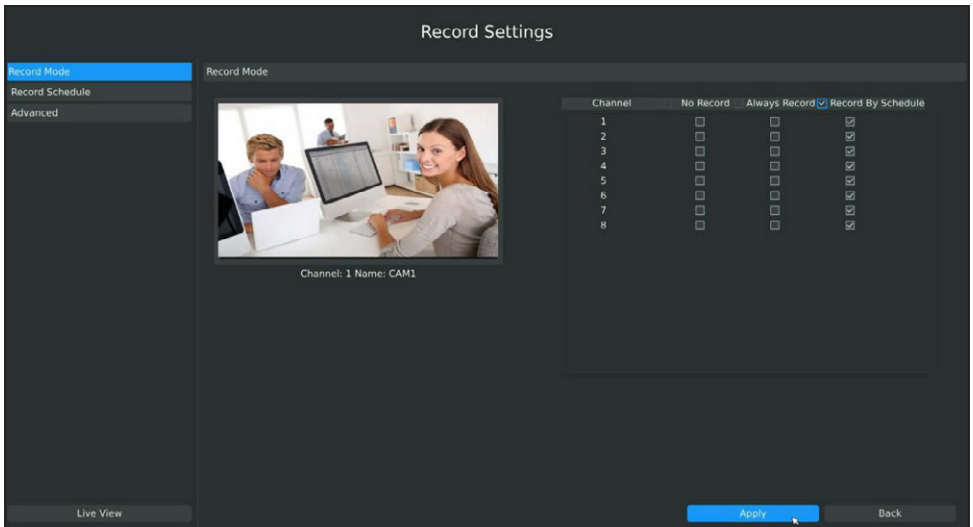
Für jeden Kanal können Sie eine der folgenden Aufnahmeweisen wählen:

Keine Aufnahme [No Recording],

Immer aufnehmen [Always record],

Programmierte Aufnahme [Record by schedule].

Mit der Taste Anwenden [Apply] die getroffene Wahl bestätigen.



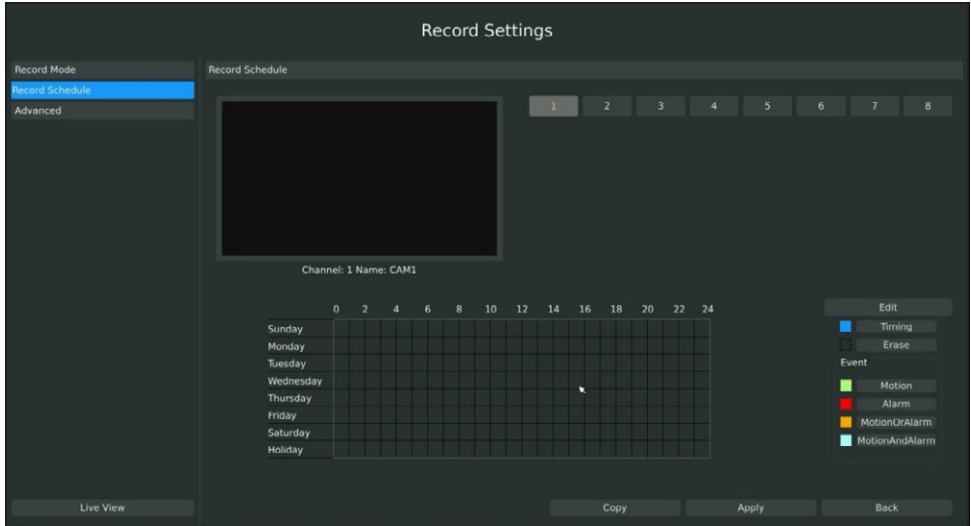
Den Aufnahme-Zeitplan [Record Schedule] einstellen

Das Aufnahme-Programmiermenü öffnen:

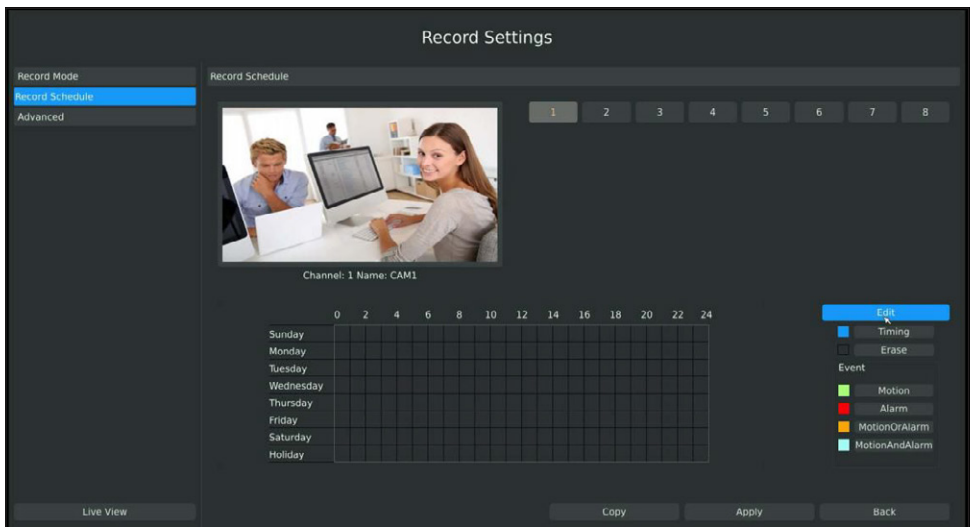
Main menu ⇒ Record ⇒ Record Schedule.

Hinweis: vorgesehen sind folgende Tage Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/Saturday/Holiday.

Der Feiertagsplan hat den Vorrang vor den anderen Wochentagen.

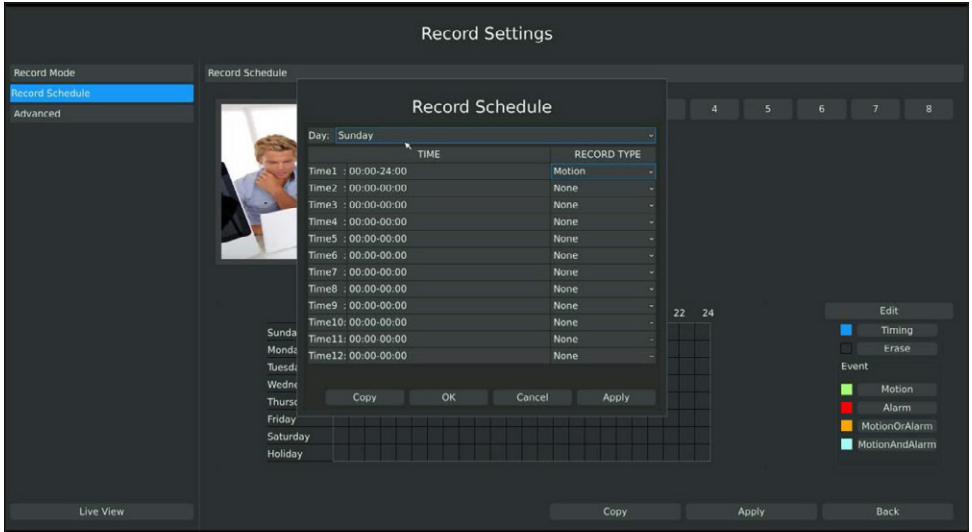


Wählen Sie den gewünschten Kanal (z.B. Channel 1) und klicken Sie auf Bearbeiten [Edit].



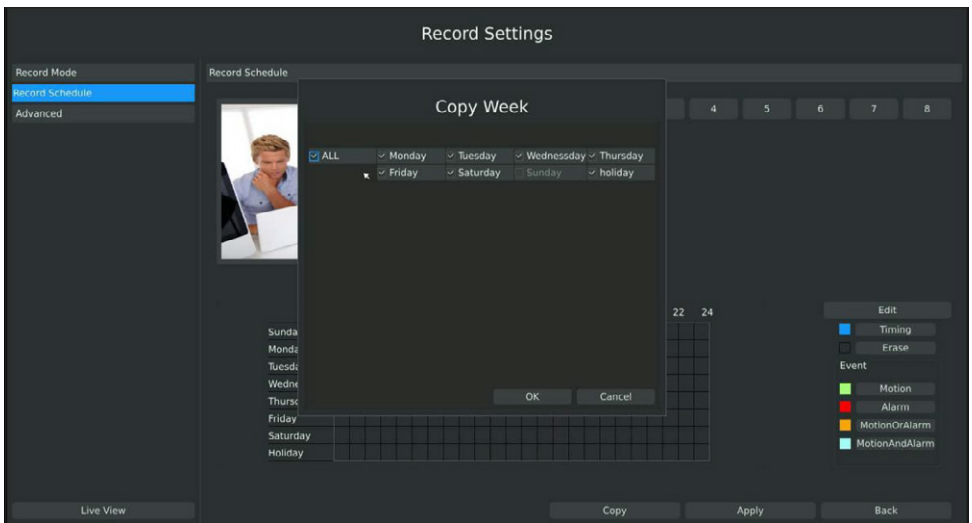
Im Dropdown-Menü einen Wochentag [Day] und anschließend [Record Type] wählen, um die Aufnahmezeit einzustellen (Sie können bis 12 Zeiträume einstellen: z.B. 01:00 - 05:00 keine Aufzeichnung; 06:00 - 18:00 an das Zeitfenster gebundene Aufzeichnung; 19:00 - 21:00 Aufzeichnung nach Bewegung; 22:00 - 24:00 Aufzeichnung nach Alarm).

Hinweis: Die Zeiten dürfen sich nicht überschneiden.



Die Programmierung für andere Wochentage duplizieren

Auf die Taste Kopieren [Copy] klicken und die Einstellungen für die anderen Wochentage duplizieren. Mit der Taste Anwenden [Apply] die bestätigen.



Nach der Programmierung wird der Kanal, wie in der Abbildung dargestellt, angezeigt.



Die Aufnahmeeinstellungen für andere Kanäle duplizieren

[Copy] wählen, um dieselben Einstellungen für andere Kanäle zu duplizieren; den Kanal/die Kanäle wählen, für die sie kopiert werden sollen, und die Einstellungen mit [OK] speichern.



Mit der Taste Anwenden [Apply] oder mit Zurück [Back] wieder zum vprherigen Menüpunkt zurückgehen.

Den Aufnahme-Zeitplan mit der Maus einstellen

Das Aufnahme-Programmiermenü öffnen:

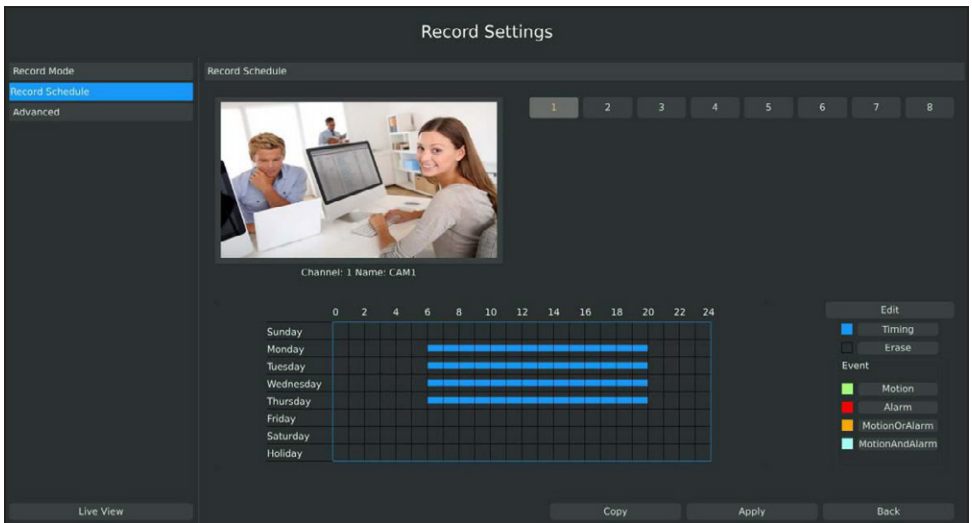
Main menu ⇒ Record ⇒ Record Schedule.

Den Kanal, der programmiert werden soll, auswählen.



1 Die Aufnahmeweise wählen und mit der Maus auf der Grafik die Uhrzeiten/Wochentage, den Bereich in dem die Programmierung erfolgen soll, durch "Ziehen" auswählen.

Mit der Taste Anwenden [Apply] die getroffene Wahl bestätigen.

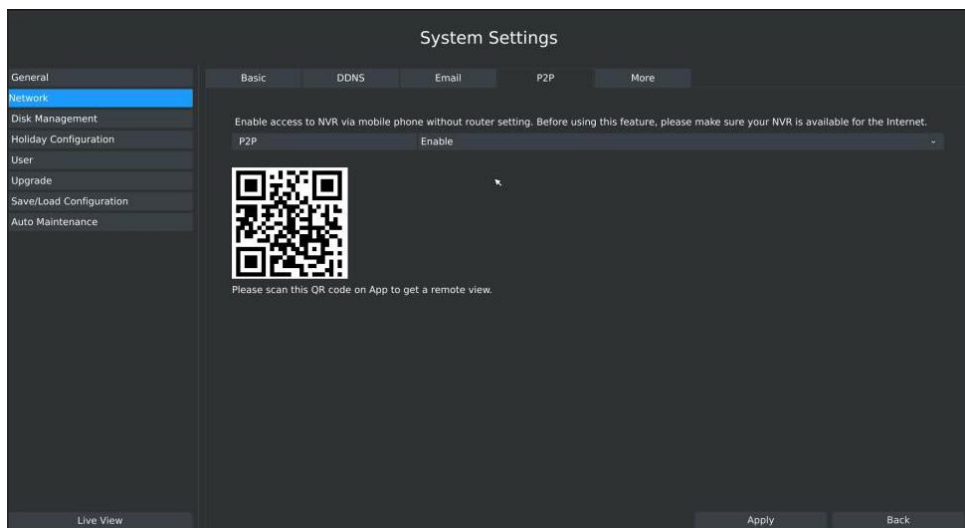


[Copy] wählen, um dieselben Einstellungen für andere Kanäle zu duplizieren; den Kanal/die Kanäle wählen, für die sie kopiert werden sollen, und die Einstellungen mit [OK] speichern.

P2P-EINSTELLUNGEN

Mit der App M-VMS können Sie mit ihrem Mobilgerät auf die Live-Aufzeichnung des NVR zugreifen. Die P2P-Funktion ermöglicht die Verbindung zum NVR ohne auf dem Router die Port-Forwarding-Einstellung vorzunehmen.

Mit der rechten Taste auf die Live-Aufzeichnung (Live) klicken und MENU ⇒ SYSTEM ⇒ NETWORK ⇒ P2P wählen, um den abgebildeten Bildschirm zu öffnen.



1. Im Dropdown-Menü "P2P" "Aktivieren" [Enable] wählen;
2. Danach die Einstellungen mit "Anwenden" [Apply] bestätigen.

HINWEIS: Aus Sicherheitsgründen müssen Sie sich für die P2P-Funktion anmelden, wenn die Firmware des Geräts den unten aufgeführten entspricht.

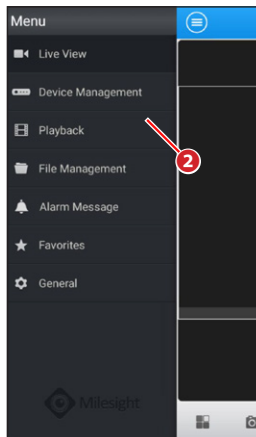
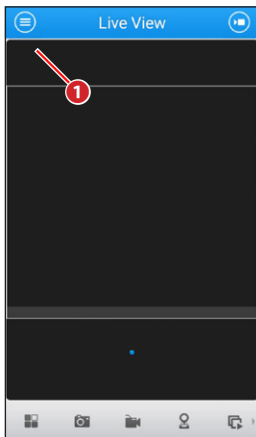
Wenn die Firmwareversion 71.7.0.5-R13 oder höher ist bzw. die Firmwareversion 72.7.0.5-r13 oder höher ist, müssen Sie Ihren Händler kontaktieren.

Ansonsten die auf der Seite "P2P" eingegebenen Daten speichern.

Wenn dies nicht gelingt, folgende Kontrollen vornehmen:

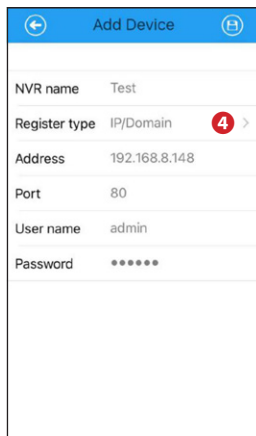
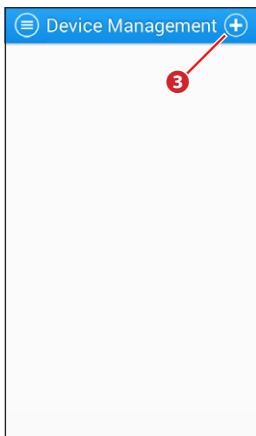
Angezeigter Fehler	Mögliche Lösung
Netzwerkfehler [Network Error]	Die Netzwerkverbindung kontrollieren
Aufzeichnung nicht gelungen [Register failed]	Die MAC-Adresse registrieren den P2P nicht
Unbekannter Fehler [Unknown Error]	Den Wartungsdienst anrufen

Nach der Aktivierung können Sie den NVR in der App hinzufügen, indem Sie den QR-Code auf der Seite "P2P" abtasten oder die MAC-Adresse von Hand eingeben.



Im entsprechenden Store die App M-VMS herunterladen und die App starten.

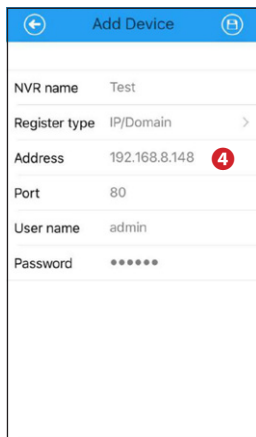
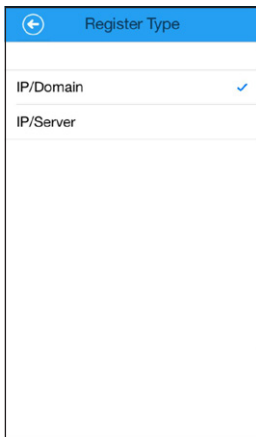
Drücken Sie auf die Taste **1** und anschließend den Taster **2**.



Drücken Sie auf die Taste **3**, um das Fenster, mit dem Sie dem Verzeichnis der über Ihr Mobilgerät erreichbaren Geräte ein neues Gerät hinzufügen können, zu öffnen.

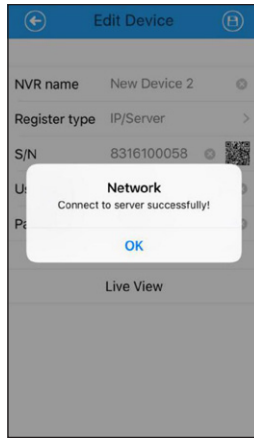
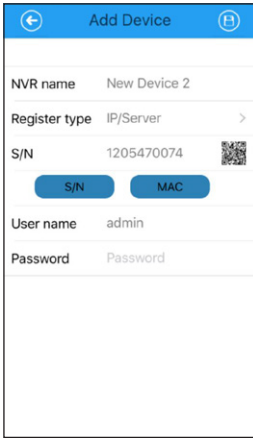
Dem Gerät einen Namen geben.

Das Feld **4** antippen und die Art der Netzwerkanmeldung wählen.

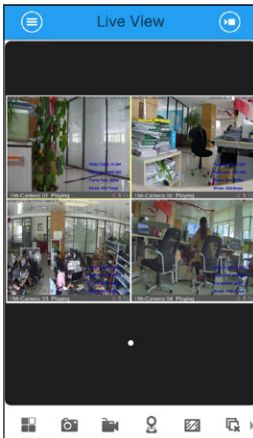


Wenn Sie IP/Domain wählen, müssen Sie die folgenden Felder von Hand ausfüllen.

Das Feld **5** kann eine lokale, öffentliche oder DDNS IP enthalten.

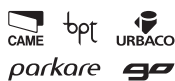


Wenn Sie IP/Server gewählt haben, die MAC-Taste wählen und den QR-Code des NVR abtasten, um die Verbindung herzustellen.



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Der Inhalt der Anleitung kann jederzeit ohne Vorankündigung geändert werden.

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