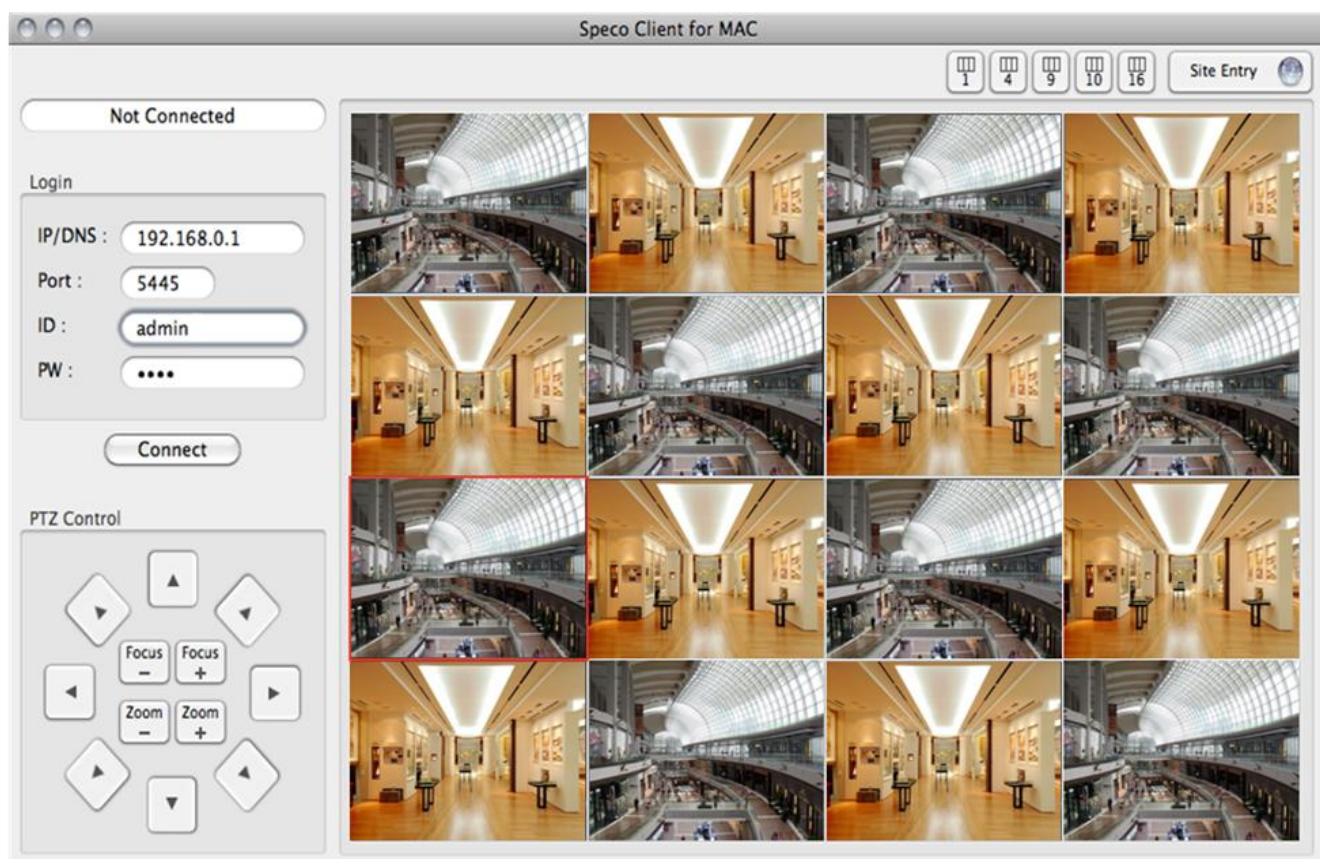




MAC Client's User Guide

Model: D4RS, D8RS, D16RS, D4WRS, D8WRS, D16WRS



About This User's Guide

Before operating the application, please read this user's guide thoroughly and retain it for future reference.

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1. Network Access Using MAC Client Software

1-1. Overview

The program displays up to 16 channels and supports dual monitors.

On the program, user may control PTZ cameras on the DVRs.

1-2. Installation of the Program

1. Double-click "Speco Client for MAC.app" and the program will immediately run.

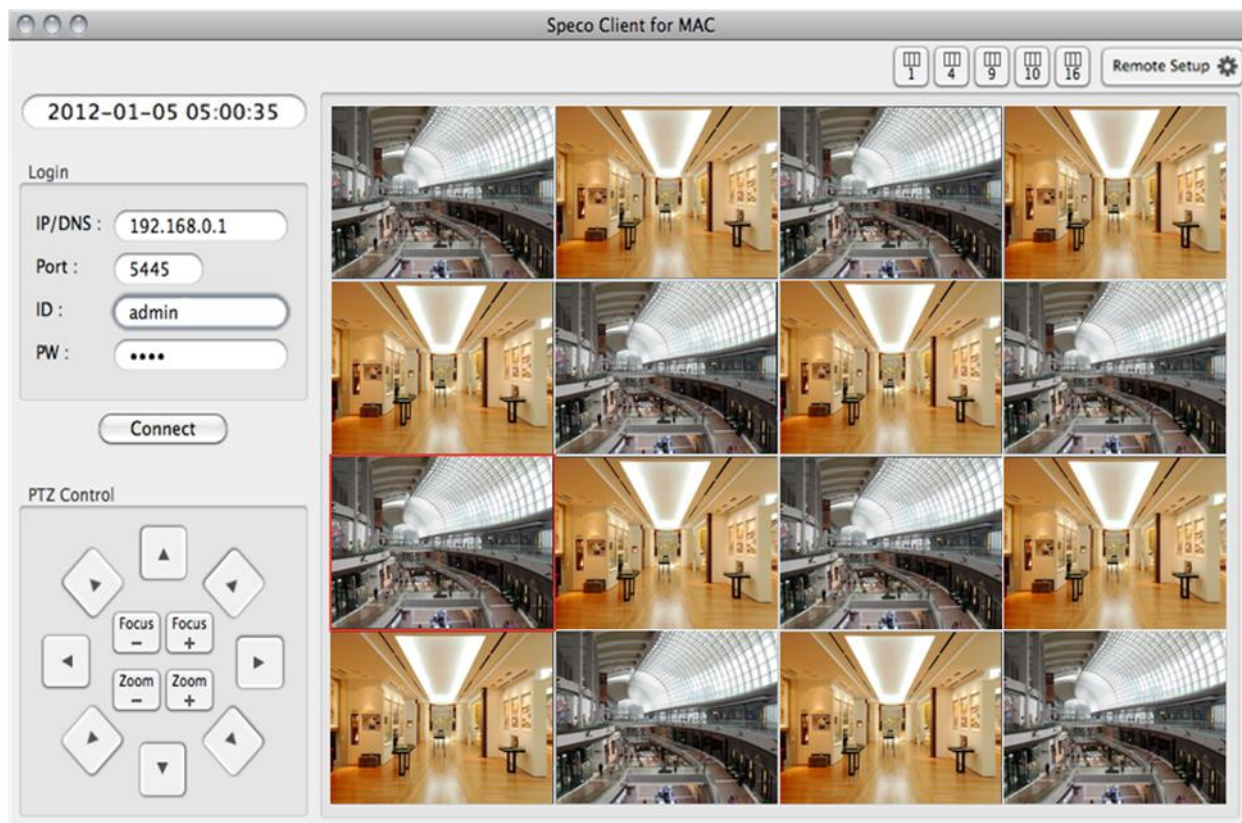


2. Client Window will be appeared by clicking the following icon on the menu bar.

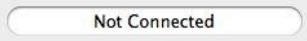
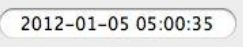
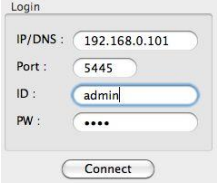
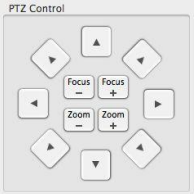



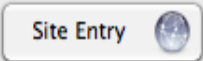
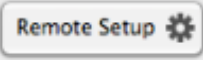

1-3. Live Window

1-3-1. Main User Interface



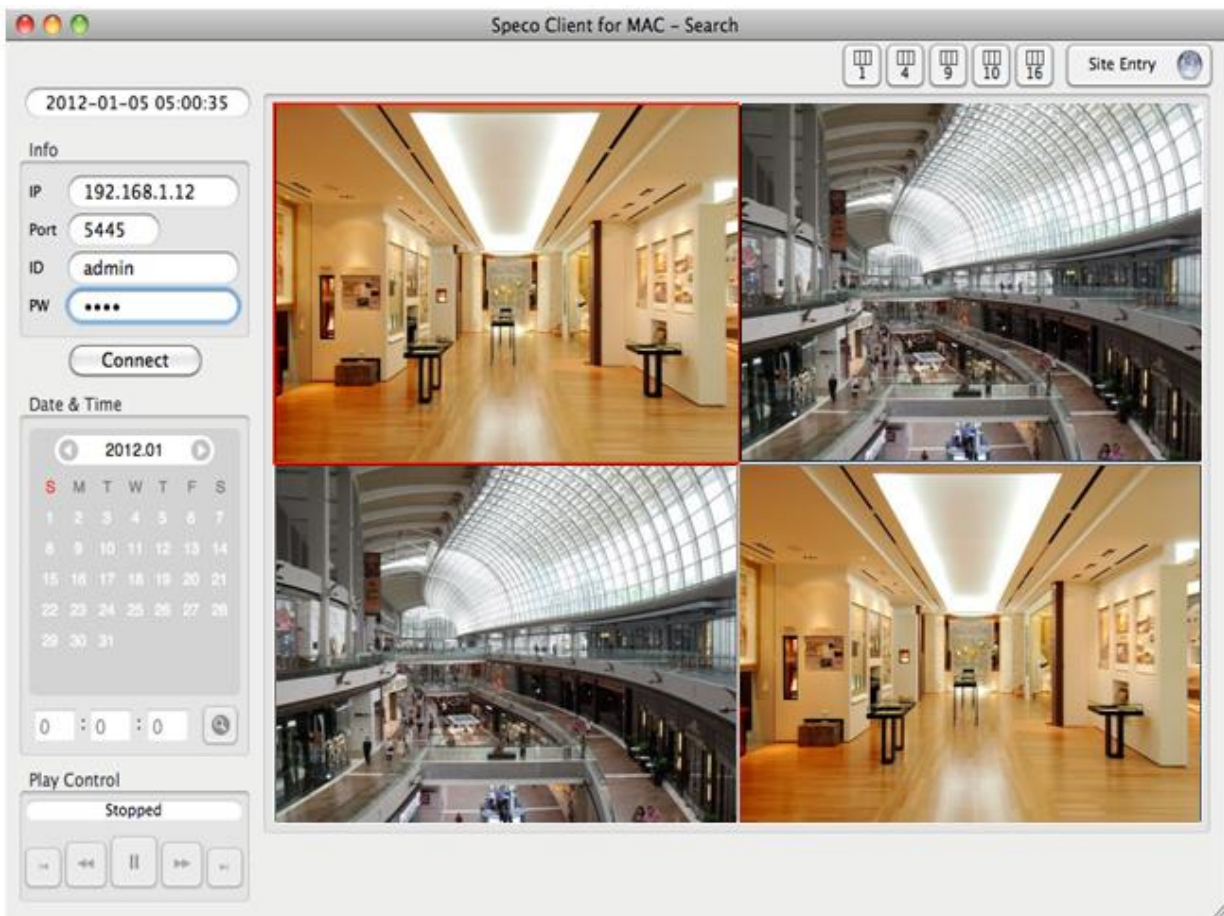
1-3-2. Control Buttons

| Button | Description |
|--|--|
|  Time Display  | Once accessing DVR successfully, the date & time is displayed as following. |
| Login window  | Enter the required information and click "Connect" button to access DVR. |
| PTZ CONTROL  | Control PTZ function of Camera. |
| CHANNEL SPLIT  | To select the numbers of display channel/channels (Single, quad, 9 channels, and 16 channels). |

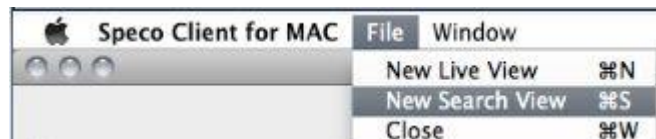
| | |
|---|--|
|  SITE ENTRY | Click the icon and the window to register the number of site will be displayed. When the network connection is done, SITE ENTRY button is converted to REMOTE SETUP Button. |
|  REMOTE SETUP | Remote Setup Button. This button is converted from SITE ENTRY button when the network connection is done. |
|  Window Control | RED – Close the window YELLOW – Minimize the window Green – Full Screen |

1-4. Search and Playback Window


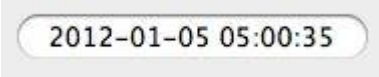


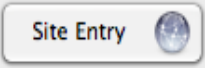

1-4-1. Main User Interface



You can access to search window by clicking “New Search View” on the File.



1-4-2. Main Control Panel

| Button | Description |
|---|--|
|  | <p>Once accessing DVR successfully, the date & time is displayed as following.</p>  |
|  | <p>The calendar shows dates with recorded video in color. Select the date and enter the time to search the data.</p> |
|  | <p>Playback buttons.</p> |
|  SITE ENTRY | <p>Click the icon and the window to register the number of site will be displayed. When the network connection is done, SITE ENTRY button is converted to REMOTE SETUP Button.</p> |
|  REMOTE SETUP | <p>Remote Setup Button. This button is converted from SITE ENTRY button when the network connection is done.</p> |



NOTICE

User must be logged into the DVR as **admin** to change menu settings from REMOTE SETUP.

Enter the password of the DVR when prompted. (NOTE: The default password is 1111)

Setting is the same as with the DVR menu setting. Refer to the corresponding pages for details on the setting items.



NOTICE

Web Setup is prohibited when DVR is in local Setup Menu.



1-6-1. System

Select **System** to set system and time settings.

| SYSTEM | RECORD | DEVICE | DISPLAY | NETWORK | USER MANAGEMENT | STORAGE | UPGRADE |
|-----------------------|---|--------|---------|---------|-----------------|---------|---------|
| DATE DISPLAY FORMAT | MM/DD/YYYY | | | | | | |
| CLIENT ACCESS | <input checked="" type="radio"/> ON <input type="radio"/> OFF | | | | | | |
| NTP SETUP | OFF | | | | | | |
| PRIMARY SNTP SERVER | Pool.ntp.org | | | | | | |
| SECONDARY SNTP SERVER | Time.nist.gov | | | | | | |
| TIME ZONE | GMT +0:00 (Lisbon/London/Monaco) | | | | | | |
| CONNECTION MODE | TIME | | | | | | |
| CONNECTION PERIOD | 03:00 AM | | | | | | |
| SEND EMAIL SETUP | ON | | | | | | |
| TRANSMISSION MODE | VIDEO | | | | | | |
| IP NOTIFICATION | OFF | | | | | | |
| MAIL BY SENSOR | OFF | | | | | | |
| MAIL BY MOTION | OFF | | | | | | |
| MAIL BY VIDEO LOSS | ON | | | | | | |
| MAIL BY S.M.A.R.T. | OFF | | | | | | |
| MAIL BY STATUS | ON | | | | | | |
| PERIOD | DAILY | | | | | | |
| | FIRST | SUN | 16 H | | | | |
| MAIL PORT | 25 | | | | | | |
| SECURE OPTION | NONE | | | | | | |
| MAIL TO | | | | | | | |
| MAIL SERVER | | | | | | | |
| ID | | | | | | | |
| PASSWORD | | | | | | | |
| MAIL FROM | | | | | | | |
| UNIT NAME | | | | | | | |

- **DATE DISPLAY FORMAT:** Select the date display format.
- **CLIENT ACCESS:** Enable/Disable remote access through network client software.
- **NTP SETUP:** Sets whether to synchronize the time using NTP server or not.
 - **Primary SNTP Server:** Input the NTP primary server address.
 - **Secondary SNTP Server:** Input the NTP secondary server address.
 - **Time Zone:** Select the time zone.
 - **Connection Mode:** Select the connection mode to NTP time server.
- **SEND E-Mail SETUP:** Sets whether to enable/disable e-mail sending function.
 - **TRANSMISSION MODE:** Select the mail transmission mode (TEXT or VIDEO).
 - **IP NOTIFICATION:** Enable/disable sending e-mail when the IP address is changed.
 - **MAIL BY SENSOR:** Enable/disable sending e-mail reports when an alarm event is triggered.
 - **MAIL BY MOTION:** Enable/disable sending e-mail when the motion is detected.
 - **MAIL BY VIDEO LOSS:** Enable/disable sending e-mail when the video loss is detected.
 - **MAIL BY S.M.A.R.T.:** Enable/disable sending e-mail reports when S.M.A.R.T. is triggered
 - **MAIL DVR STATUS:** Enable/disable sending periodical e-mail of the system status.
 - **MAIL PORT:** Mail port setting.
 - **SECURE OPTION:** Select a secure mail server connection. (**SSL or TLS**)
 - **MAIL TO:** Input the appropriate email address to enable sending e-mail reports
 - **MAIL SERVER:** Input the SMTP server name as well as the user ID and password.
 - **MAIL FROM (Return Mail Address):** Set the source e-mail address to be notified to the destination.
- **USER NAME:** Name the DVR

1-6-2. Record

Select **RECORD** tab to set the recording conditions.

The screenshot shows a software interface with a dark blue header and several tabs: SYSTEM, RECORD, DEVICE, DISPLAY, NETWORK, USER MANAGEMENT, STORAGE, and UPGRADE. The RECORD tab is active. Below the tabs, there are two sections of settings. The first section is for a specific channel (CH1) and includes: SITE (CH1), RESOLUTION (D1), FRAME RATE (6 FPS), QUALITY (LEVEL 5(H)), RECORDING MODE (MOTION), SENSOR RECORDING (four dropdown menus, all set to '-'), PRE RECORD (1 MINUTE(S)), POST EVENT RECORD (10 SECOND(S)), and AUDIO (radio buttons for ON and OFF, with OFF selected). The second section is for EZRecord and includes: RESOLUTION (D1), FRAME RATE (6 FPS), QUALITY (LEVEL 5(H)), RECORDING (MOTION), and DAYS TO RECORD (1 DAY(S) 1 HOUR(S)). An 'APPLY EZRecord' button is located to the right of the EZRecord settings.

These settings apply to the specified channel only.

- Recording Setup
 - **RESOLUTION:** Sets the resolution for the recordings. The set value applies to an individual channel.
 - **FRAME RATE:** Sets the recording rate.
 - **QUALITY:** Sets the image quality in 5 levels.
 - **RECORDING:** Sets the recording mode.
 - **RECORDING MODE:** CONTINUOUS, SCHEDULE, MOTION
 - **PRE RECORD:** Sets whether to perform or not pre recording.
 - **POSE EVENT RECORD:** Sets the duration of the event recording.
 - **AUDIO:** Sets whether to perform or not audio recording.

These settings apply to all channels.

- **EZRECORD**
 - **RESOLUTION:** Sets the resolution for the recordings. The set value applies to an individual channel.
 - **FRAME RATE:** Sets the recording rate.
 - **QUALITY:** Sets the image quality in 5 levels.
 - **RECORDING MODE:** Sets the recording mode.
 - **RECORD DAYS:** By the setting value, the Recording Days will change accordingly.

1-6-3. Device

Select **Device** to set Spot Out, Enable/Disable CVBS Out, motion zone.

| SYSTEM | RECORD | DEVICE | DISPLAY | NETWORK | USER MANAGEMENT | STORAGE | UPGRADE |
|----------------------|--------|---|---------|---------|-----------------|---------|---------|
| ALARM-OUT | | 1 | | | | | |
| SENSOR IN | | - | - | - | - | - | - |
| MOTION ON | | - | - | - | - | - | - |
| VIDEO LOSS ON | | - | - | - | - | - | - |
| ALARM DURATION | | 5 | | | | | |
| ERROR ALARM | | OFF | | | | | |
| CONTROLLER | | ---- | | | | | |
| SPEED | | 9600 | | | | | |
| ID | | 0 | | | | | |
| PTZ | | | | | | | |
| CHANNEL | | CH1 | | | | | |
| CAMERA | | ---- | | | | | |
| SPEED | | 9600 | | | | | |
| ID | | 0 | | | | | |
| MOTION | | | | | | | |
| SITE | | CH1 | | | | | |
| MOTION ZONE | | FULL ZONE | | | | | |
| MOTION SENSITIVITY | | 5 | | | | | |
| KEY TONE | | <input checked="" type="radio"/> ON <input type="radio"/> OFF | | | | | |
| REMOTE CONTROLLER ID | | 0 | | | | | |
| SENSOR | | 1 | | | | | |
| TYPE | | OFF | | | | | |

- **ALARM OUT:** Set the sensor, motion, and video loss for triggering alarm relay HDD Error and Video Loss can trigger beeping.
- **CONTROLLER:** Set the controller baud rate and ID.
- **PTZ:** Set the PTZ baud rate, protocol, and ID.
- **MOTION: Setup the motion detection area and the sensitivity.**
 - **SITE: Select the channel**
 - **MOTION ZONE:** FULL Zone or PARTIAL Zone
 - **MOTION SENSITIVITY:** 1~9 (High sensitivity level)
- **KEYTONE:** Sets On or Off of Key Tone.
- **REMOTE CONTROLLER ID:** Sets an ID number on the supplied remote control for its identification.
- **SENSOR:** Select the type of each sensor.

1-6-4. Display

Select the **DISPLAY** tab to set the DISPLAY conditions.

| SYSTEM | RECORD | DEVICE | DISPLAY | NETWORK | USER MANAGEMENT | STORAGE | UPGRADE |
|-----------------------|--------|---|---------|---------|-----------------|---------|---------|
| OSD | | <input checked="" type="radio"/> ON <input type="radio"/> OFF | | | | | |
| OSD CONTRAST | | 100 | | | | | |
| MAIN MONITOR SEQUENCE | | <input checked="" type="radio"/> ON <input type="radio"/> OFF | | | | | |
| SEQUENCE-DWELL TIME | | 3 SECOND(S) | | | | | |
| SITE | | CH1 | | | | | |
| NAME | | CH1 | | | | | |
| COVERT | | OFF | | | | | |
| BRIGHTNESS | | 50 | | | | | |
| CONTRAST | | 50 | | | | | |
| HUE | | 50 | | | | | |
| SATURATION | | 50 | | | | | |

These settings apply to all channels.

- **OSD:** Sets whether to display or not date and time as well as channel number on the screen.

- **OSD CONTRAST:** Adjust the character contrast on the screen.
- **MAIN MONITOR SEQUENCE:** Setting for automatically switching the displayed video.
- **SEQUENCE DWELL TIME:** Sets the interval for automatically switching the screens.
- **SITE:** Name, Covert, Brightness, Contrast, Hue, Saturation

These settings apply to the specified channel only.

1-6-5. Network

| SYSTEM | RECORD | DEVICE | DISPLAY | NETWORK | USER MANAGEMENT | STORAGE | UPGRADE |
|--------------------|---------------|--------|---------|---------|-----------------|---------|---------|
| NETWORK TYPE | DHCP | | | | | | |
| IP | 192.168.1.22 | | | | | | |
| SUBNET MASK | 255.255.255.0 | | | | | | |
| GATEWAY | 192.168.1.1 | | | | | | |
| DNS (PRIMARY) | 192.168.1.1 | | | | | | |
| DNS (SECONDARY) | | | | | | | |
| DDNS | ON | | | | | | |
| HOST NAME | hostname | | | | | | |
| SUBMIT/UPDATE | ON | | | | | | |
| ezDDNS | ON | | | | | | |
| NETWORK PORT | 5445 | | | | | | |
| NETWORK AUDIO PORT | 5446 | | | | | | |
| WEB PORT | 80 | | | | | | |
| NETWORK STREAM | CH1 | | | | | | |
| RESOLUTION | CIF | | | | | | |
| FRAME RATE | 10 FPS | | | | | | |
| QUALITY | LEVEL 5(H) | | | | | | |

- **NETWORK TYPE**
 - **STATIC:** The address setting mode is manual. Input IP, Gateway, Subnet Mask, and DNS IP.
 - **DHCP:** The address setting mode is automatic.
- **DDNS:** Set whether to use DDNS service or not.
 - **HOST NAME:** Allows the user to setup a domain name manually
 - **SUBMIT/UPDATE:** Select ON to submit the settings
 - **ezDDNS:** Enable/disable ezDDNS to register the host name automatically
- **NETWORK PORT:** When connecting multiple DVRs to the network, set a unique port number.
- **NETWORK AUDIO PORT:** Display the network audio port (NETWORK PORT + 1).
- **WEB PORT:** Set a web server port number.
- **NETWORK STREAM:** Set the Resolution, Frame Rate, and the Quality.

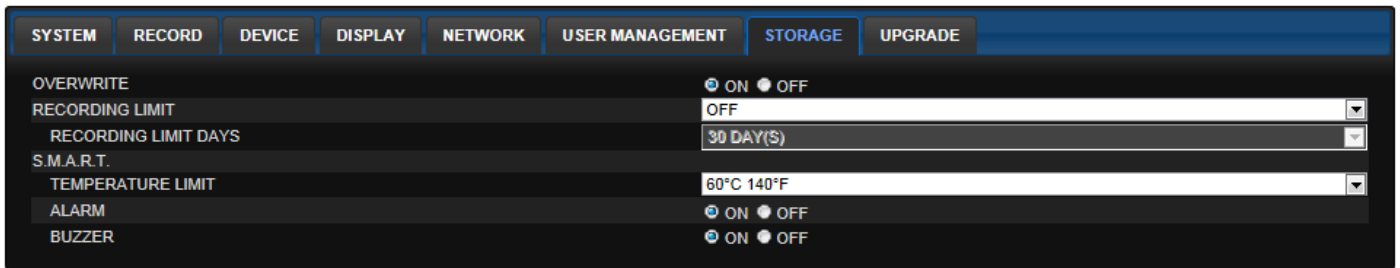
1-6-6. User Management

Select the **USER MANAGEMENT** tab to set the DISPLAY conditions.

| SYSTEM | RECORD | DEVICE | DISPLAY | NETWORK | USER MANAGEMENT | STORAGE | UPGRADE |
|------------------|--------|--------|---------|---------|-----------------|---------|---------|
| USER | ADMIN | | | | | | |
| CHANGE | KEEP | | | | | | |
| NEW PASSWORD | | | | | | | |
| CONFIRM PASSWORD | | | | | | | |

1-6-7. Storage

Select **Storage** to configure continued recording settings by overwriting the hard disk and the storage period for the recording data.

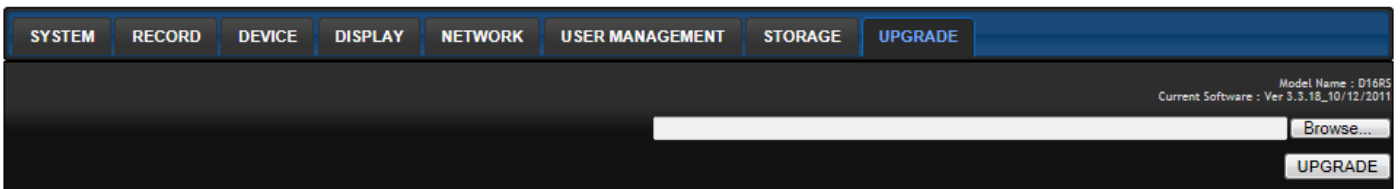


The screenshot shows the 'STORAGE' configuration page. At the top, there are navigation tabs: SYSTEM, RECORD, DEVICE, DISPLAY, NETWORK, USER MANAGEMENT, STORAGE (selected), and UPGRADE. Below the tabs, the following settings are visible:

| | |
|----------------------|---|
| OVERWRITE | <input checked="" type="radio"/> ON <input type="radio"/> OFF |
| RECORDING LIMIT | OFF |
| RECORDING LIMIT DAYS | 30 DAY(S) |
| S.M.A.R.T. | |
| TEMPERATURE LIMIT | 60°C 140°F |
| ALARM | <input checked="" type="radio"/> ON <input type="radio"/> OFF |
| BUZZER | <input checked="" type="radio"/> ON <input type="radio"/> OFF |

- **OVERWRITE:** To continue recording by overwriting when the hard disk becomes full, check the checkbox.
- **RECORD LIMIT:** Sets whether to limit or not the recording data storage period.
- **S.M.A.R.T.:** Sets the TEMPERATURE LIMIT of the Hard Disk to trigger the ALARM and the BUZZER.

1-6-8. Remote Upgrade



The screenshot shows the 'UPGRADE' page. At the top, there are navigation tabs: SYSTEM, RECORD, DEVICE, DISPLAY, NETWORK, USER MANAGEMENT, STORAGE, and UPGRADE (selected). Below the tabs, the following elements are visible:

Model Name : D1685
Current Software : Ver 3.3.18_10/12/2011

[Empty text input field]

Shows the current Firmware version installed on DVR.

- **Browse:** Select BROWSE to locate the firmware file.
- **Upgrade:** Select UPGRADE to upgrade the firmware of the DVR.