

Management Software

# DMS64/256

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## User's Manual

ZNS-DMS64  
ZNS-DMS256

**GAMZ**<sup>®</sup>



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## 1 Introduction

### 1.1 Summary

DMS has been developed as a client software and central monitoring platform for the DIGIM ASTER Series DVR and the PixelPro Series IP Camera, to allow for the monitoring (and some recording) of image data, along with search, playback, and remote configuration of various devices connected to the system.

DMS presents images and data using multiple viewing screens, allowing a great amount of flexibility during emergency situations, by prioritizing urgent data, and presenting them to the user in an organized way. It provides a scalable central management software solution for multiple DVR systems connected by Network/LAN.

DMS is able to perform the following functions as part of a central monitoring system:

- Unlimited DVR registration
- Monitoring 64 channels of video data on a single screen
- Maximum 1screen : DMS64 / 4 screens :DMS256
- Live screen display for each screen type (**I don't know what this means**)
- Visualization of surveillance assets on a floor plan, using an E-Map
- Monitoring of all devices and events using a Status Screen
- Remote recording and remote backup functions
- PTZ Control
- Event log viewing for various types of alarms (Motion, Sensor, Site Connection, etc.)

DMS allows users to perform full remote configuration of the DVR (System Setup / Recording Setup) and will retrieve recording data from the DVR remotely. Using the E-Map function users can view Alarm events easily on a graphical floor plan, and allow alarm control and response. A 64-channel live monitoring capability provides a powerful centralized management ability to the observer.

## 1.2 System Requirements

Items	Minimum Requirements
CPU	Pentium 2.80 GHz (or higher)
RAM	1GB (or higher)
O/S	Windows XP Professional (32-bit) (or higher)
Acceleration	DirectX® 8.0 (or higher)
Resolution	1280x1024 (as a minimum)
Video Card	NVIDIA GeForce 8500GT 256MB (or higher)
Network Card	10/100/1000 Base-Tx (up to 1 Gigabit) operation

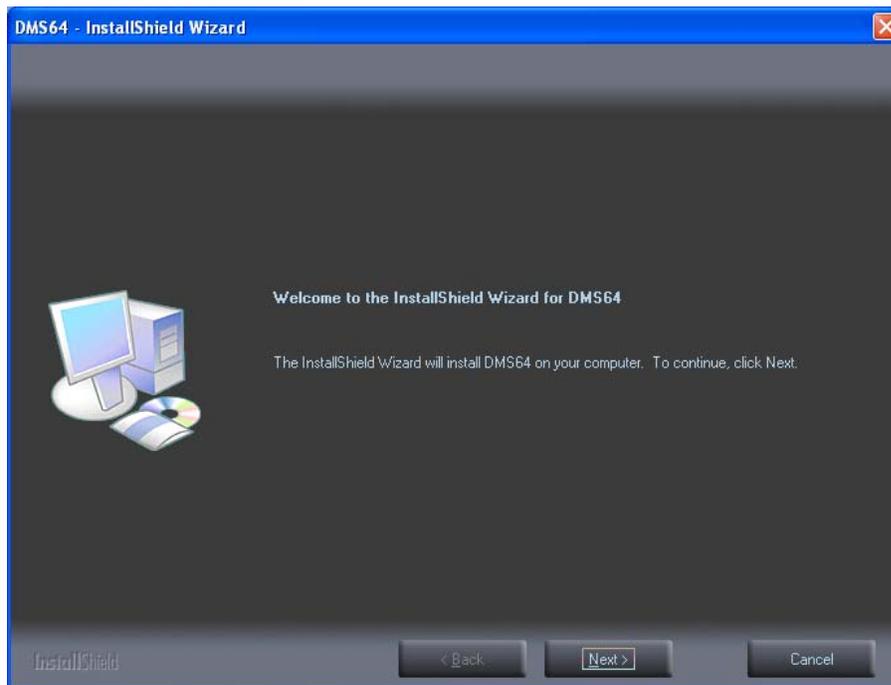
**NOTE: Recommended minimum PC specifications for DMS64**

Items	Minimum Requirements
CPU	Core 2 Duo 3.0 GHz or higher
RAM	2GB MB or higher
O/S	Windows XP Professional or higher
Acceleration	DirectX® 8.0 or higher
Resolution	1280 x 1024 as a minimum
Video Card	NVIDIA GeForce 8500 GT 512MB or higher
Network Card	1000Base-TX (1Gbps) or higher operation; must match the network configuration

**NOTE: Recommended minimum PC specifications for DMS256**

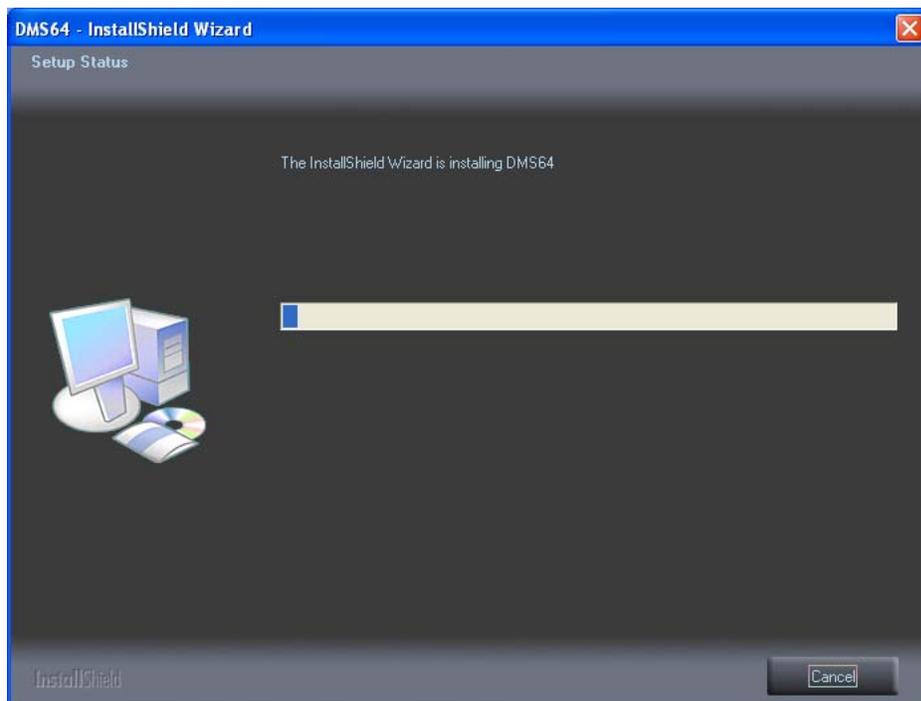
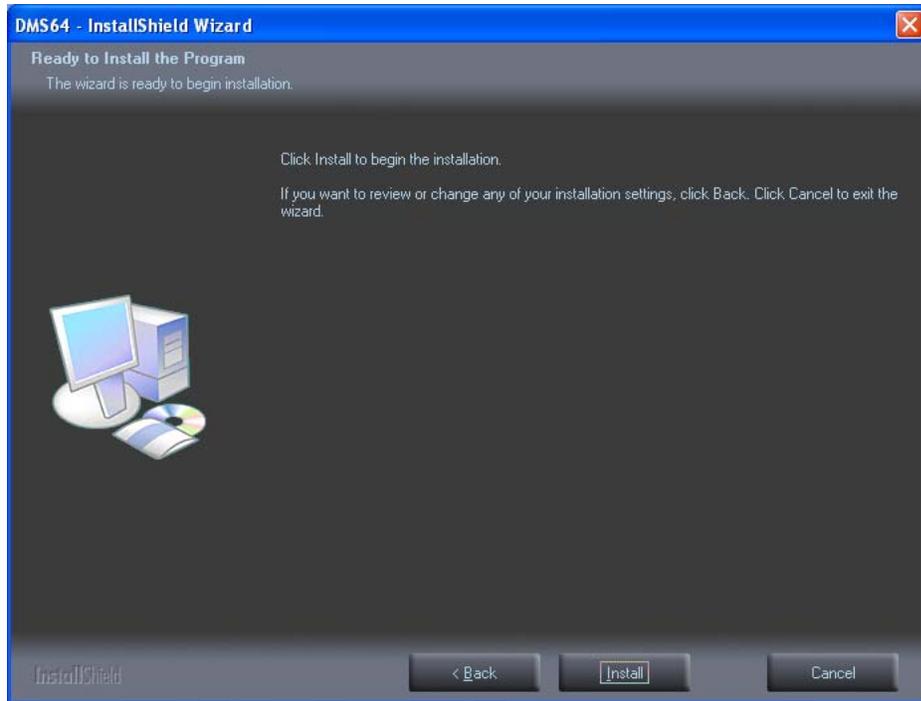
### 1.3 Installation Guide

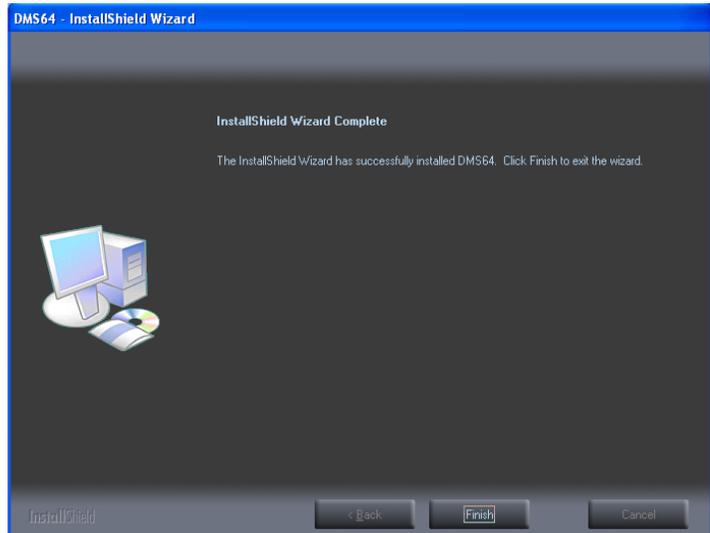
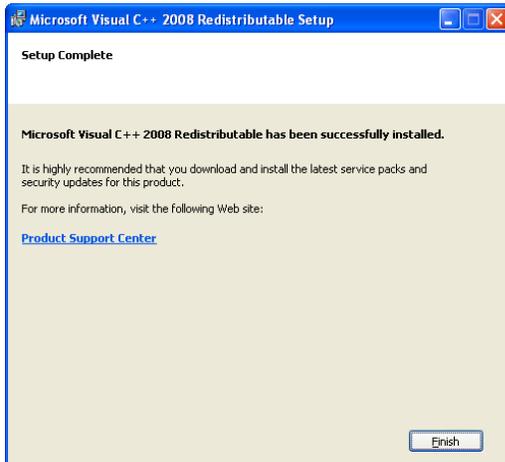
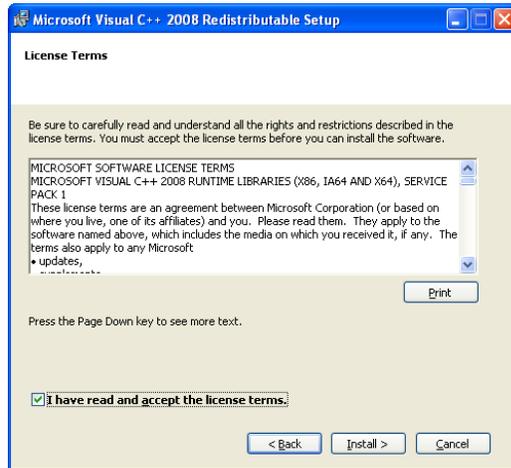
- Insert the DMS Installation CD into the CD/DVD Drive of your PC.
- The following screen (shown below) will show the InstallShield Wizard.
- Press the [Next] button to proceed to next step.



**NOTE:** Double-click the Setup file on the CD/DVD Drive to start the InstallShield Wizard if the AutoRun function does not start automatically.

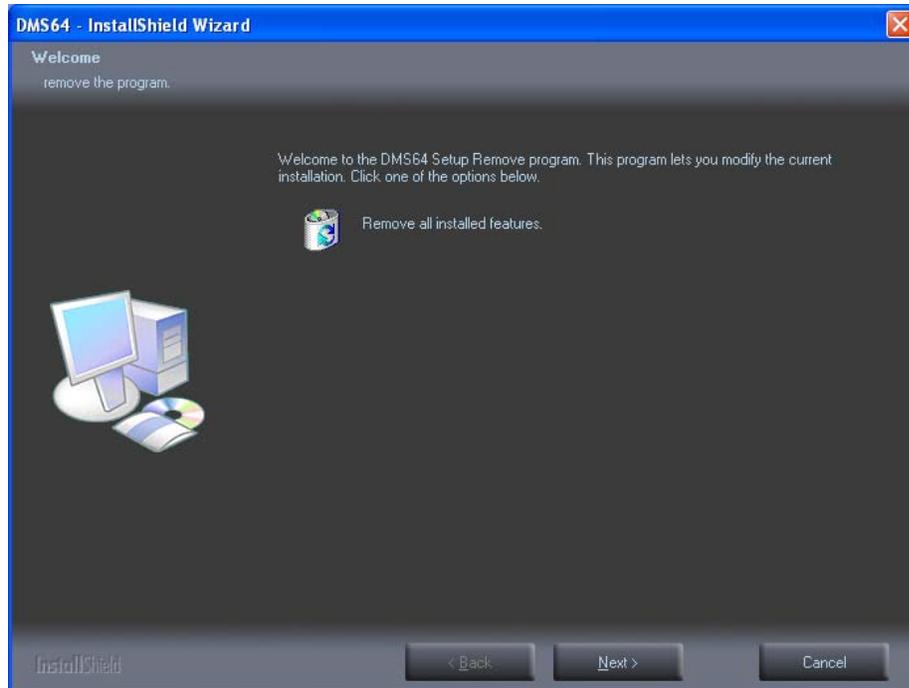
- Follow along with the DMS installation process as shown in the Installation wizard.
- Click the [Close] button after installation has been completed



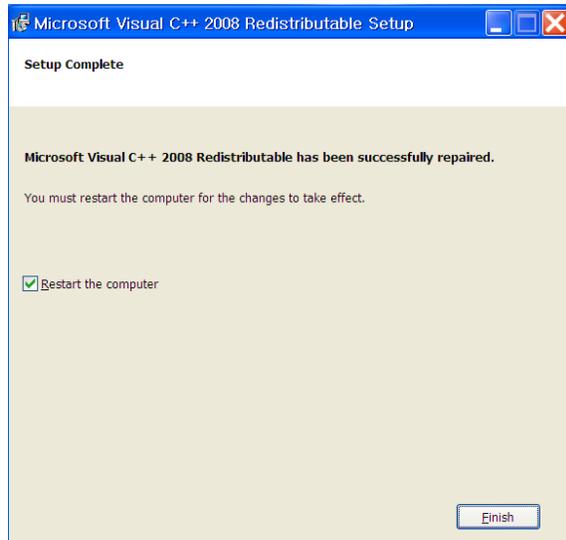
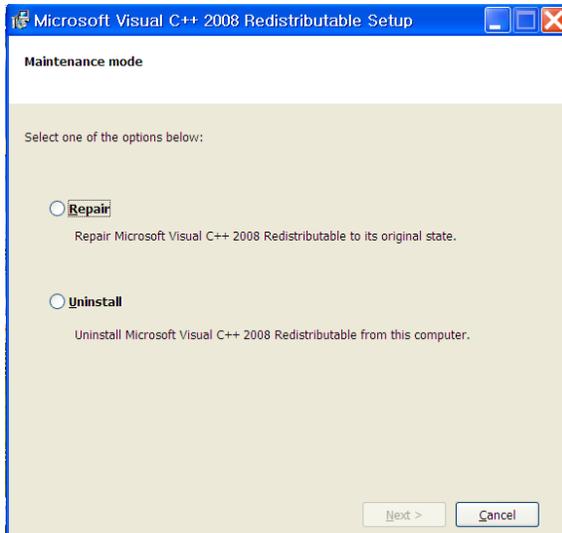


## 1.4 Reinstallation Guide

- If the DMS has already been installed on the PC, the DMS installation could be repaired and reinstalled as shown in the Installation wizard .
- Choose 'Remove all installed features', and press the [Next] button to proceed to next step.



- If you decide to reinstall the DMS after removal, DMS will be installed by following along with the Installation wizard.
- Choose [Repair] and click the [Next] button to proceed to the next step.
- After Repairing, you will have to restart the computer for the changes to take effect.



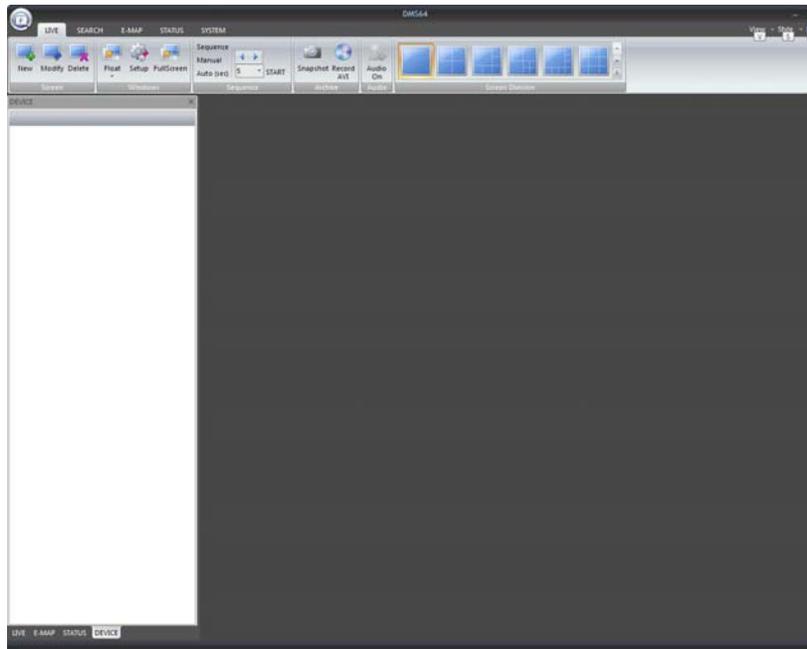
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**NOTE: When removing DMS, the Installation wizard cannot remove Visual C++ at the same time.**

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## 1.5 Device Registration

- Input ID and PASSWORD (as Default ADMIN / 1234).

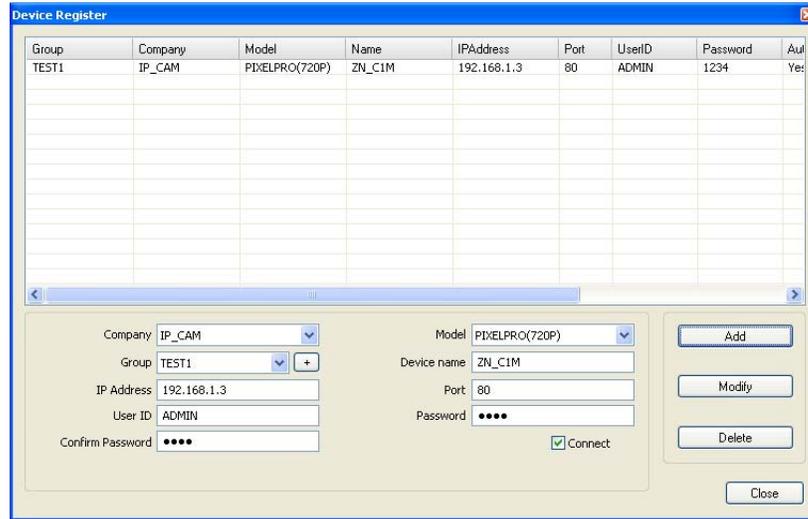


- Choose the SYSTEM menu at the top of the screen, then Select the Device tab at the bottom of the left sidebar.





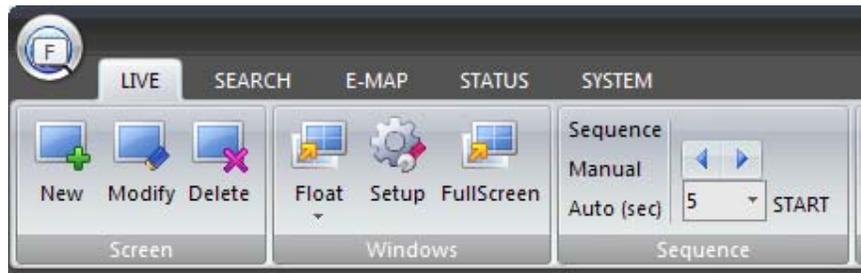
6) Input the User ID & Password for the new device then click ADD.



7) If you are finished registering devices within DMS, click 'Close'.

8) It is suggested that you use the "Auto Connect" option, to allow the DMS software to auto-connect to specific devices upon startup..

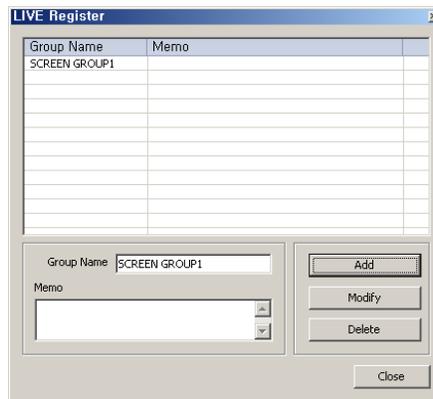
- Click on the 'LIVE' menu.
- Select the 'NEW' icon to create a new Live viewing screen.



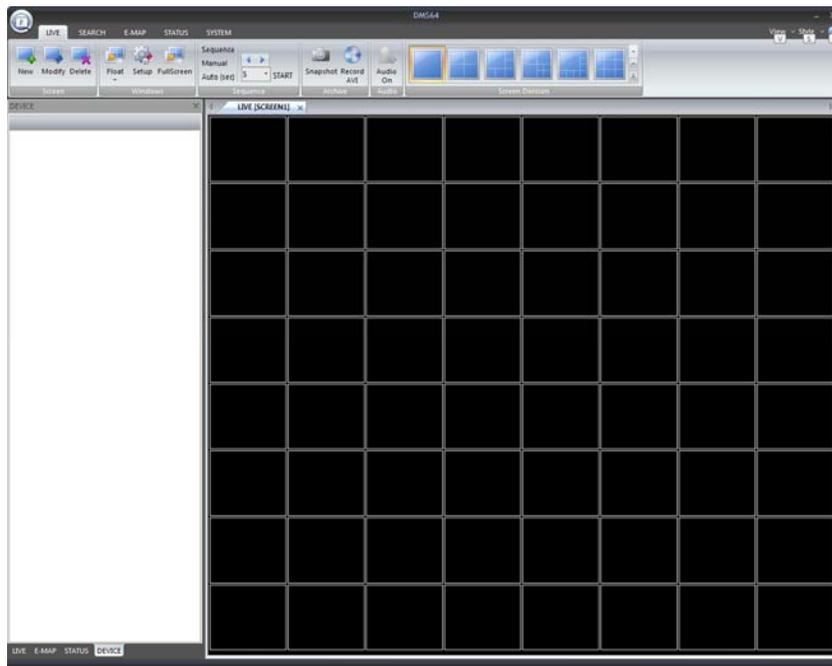
- Enter the Name of the new viewing screen you are creating.



- Enter the name of a new Group.

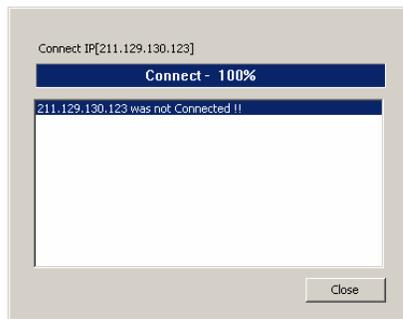


- Click 'Add', and then close this window.
- The user will see the newly-created viewing screen, as shown below.



- Click on the 'SYSTEM' menu again, and click the 'Connect' icon.

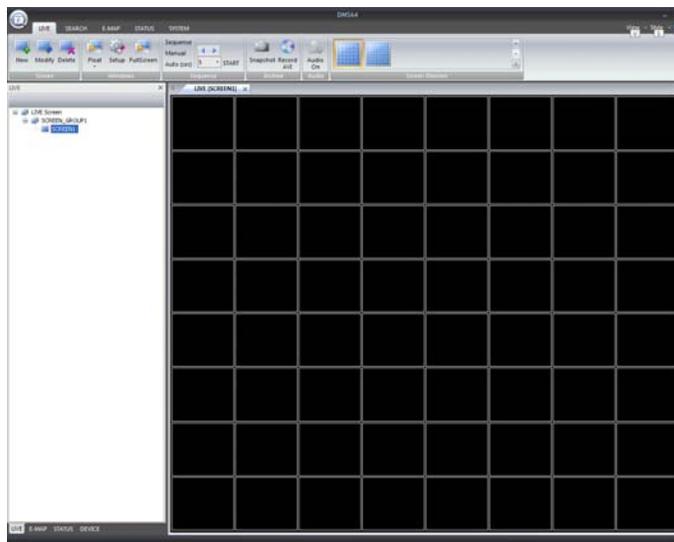




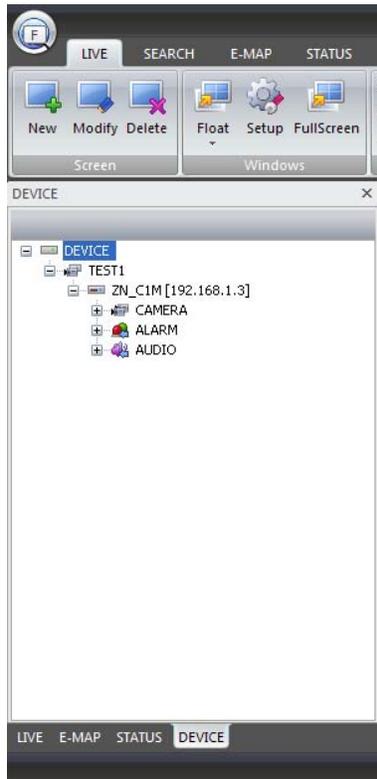
- Click on the 'LIVE' tab at the bottom of the left sidebar menu..



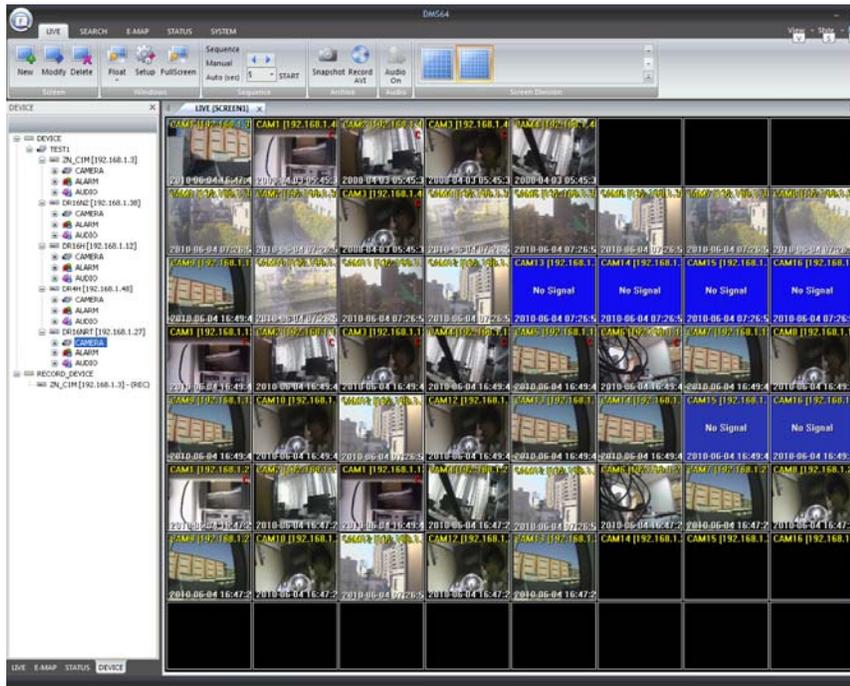
- Expand the items on the menu tree, then double-click on the last item.  
User will see a new window on the right side of the screen.



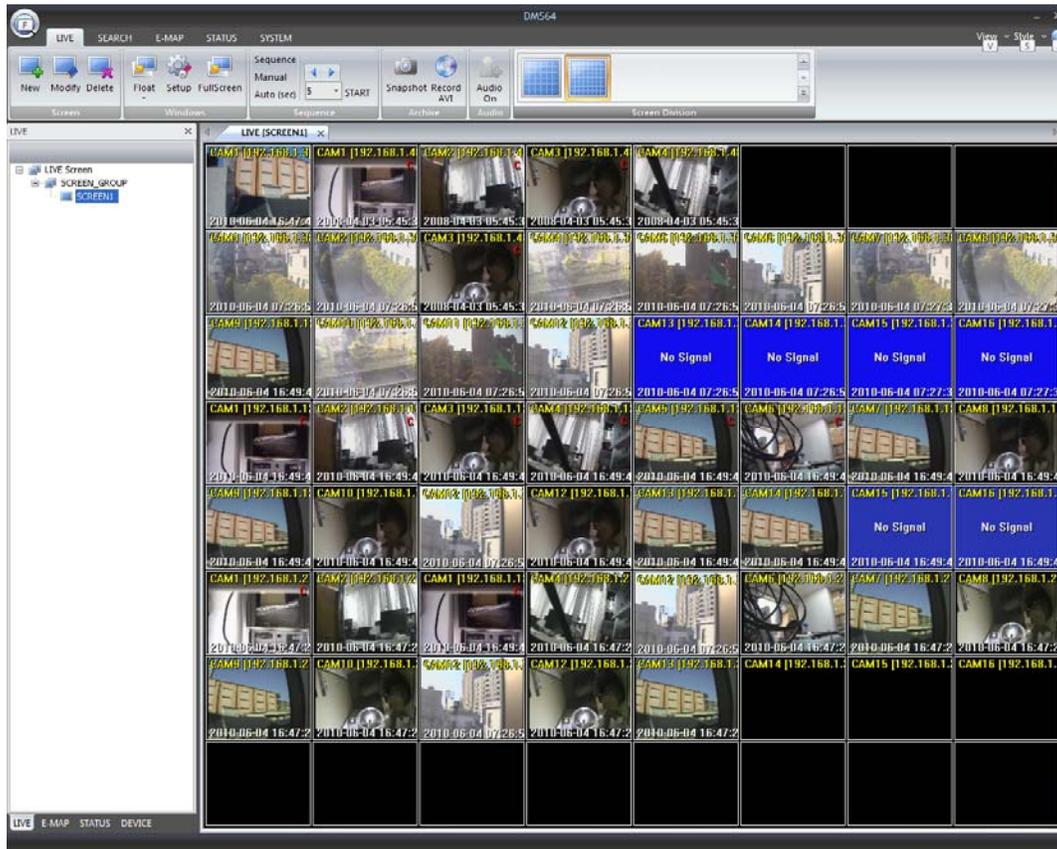
- Click the 'DEVICE' tab on the bottom of the left sidebar menu, and expand the tree.



- You may click and drag the 'CAMERA' item over to the right viewing window.



## 1.6 Display Mode

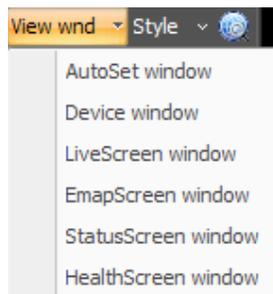


### 1. Menu Category Tab Buttons



Used to select the Screen menu of the selected Category.

### 2. Viewing & Style Buttons



Use to initialize & set layout of the left sidebar menu.



Use to change the Frame style.

**3. LIVE Tree**

Use to see the information list of the registered LIVE Screen.

**4. E-MAP Tree**

Use to see the information list of the registered E-MAP Screen.

**5. STATUS Tree**

Use to see the information list of the registered STATUS Screen.

**6. DEVICE Tree**

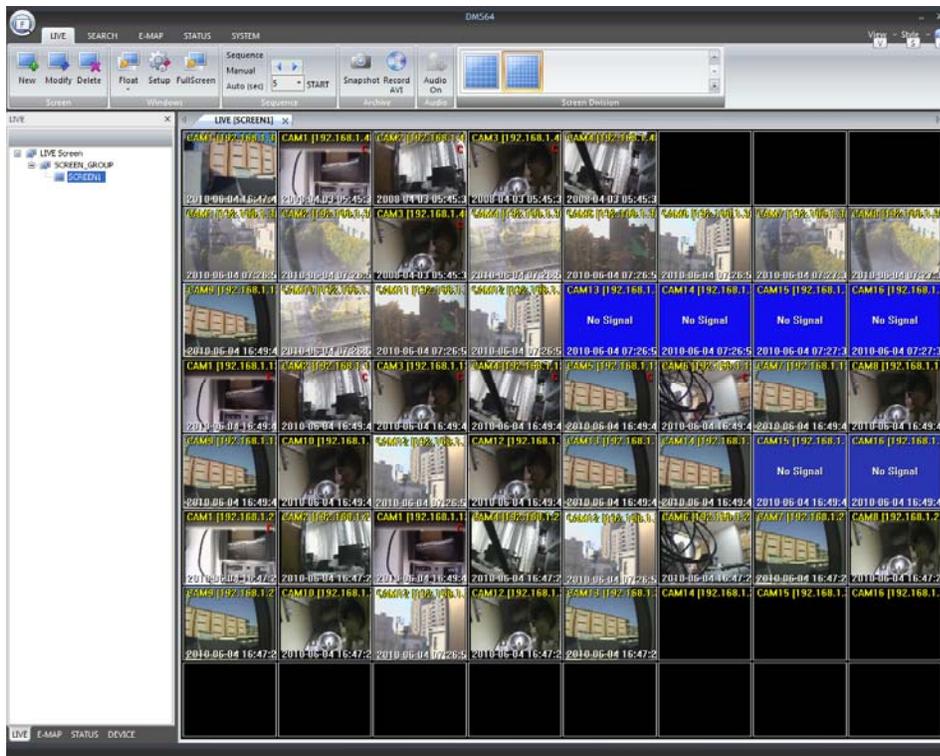
Use to see the information list of the registered DEVICE Screen..



## 1.7 Main Functions

### 1.7.1 Live

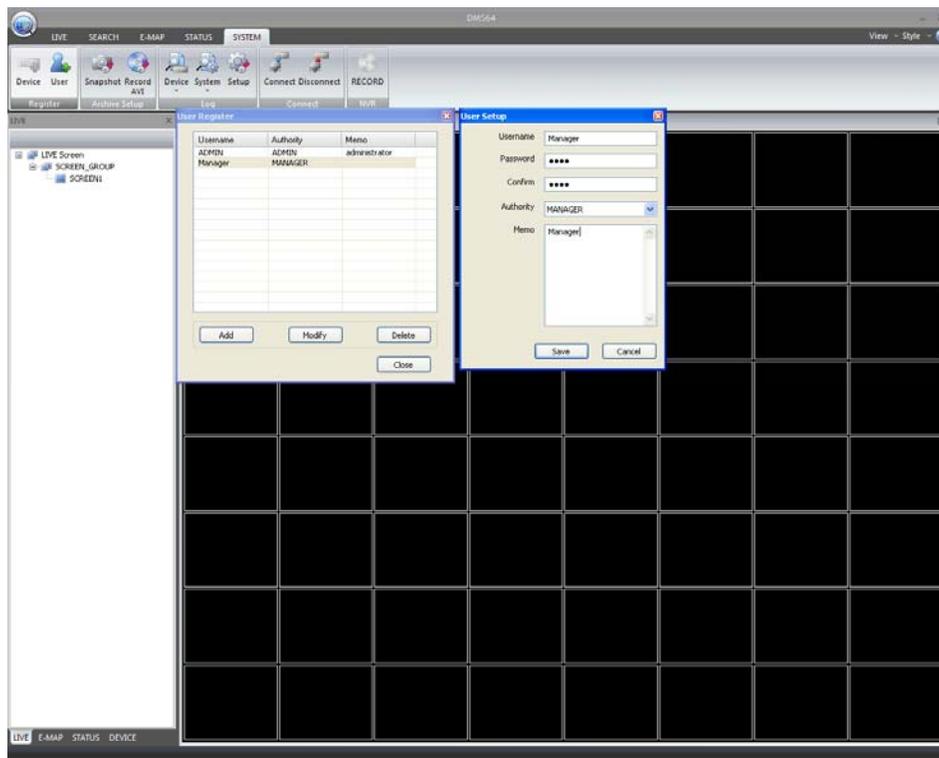
- Live images of any registered device can be shown using a multi-screen format (up to 64-channel view). manage (zoom in/out, print, snapshot, previous image) each image separately [by displaying each panel's image or multi-display of camera image could be controlled by various screen mode and map image]. ????
- The software also supports real-time event monitoring for effective event management, allowing control of each camera, with animated effects showing events such as login/logout, motion, alarm, video loss, etc., within an event viewer.



### 1.7.2 User Accounts

- Allows registration of DMS Users and Devices. Designates authority levels for each user, allowing or denying access to various functions within DMS. Each user's profile and data base can be copied and backed-up to another PC..

**NOTE: USER authority setup limits the use of various DMS functions by user group, not by individual user account.**

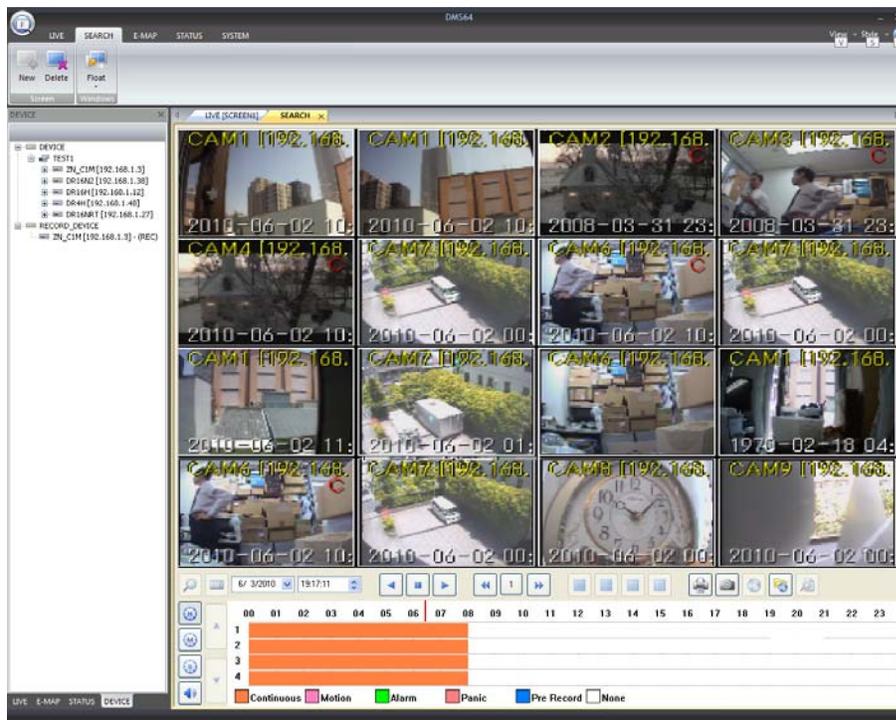


### 1.7.3 Group

- User Groups provide screen or e-map service registration, and it can also structure visual objects (camera, sensor, relay, mike, speaker and etc) on the monitoring screen and e-map image.
- More efficient control over settings can be achieved by configuring the central monitoring system software with various user levels and permissions for each group.

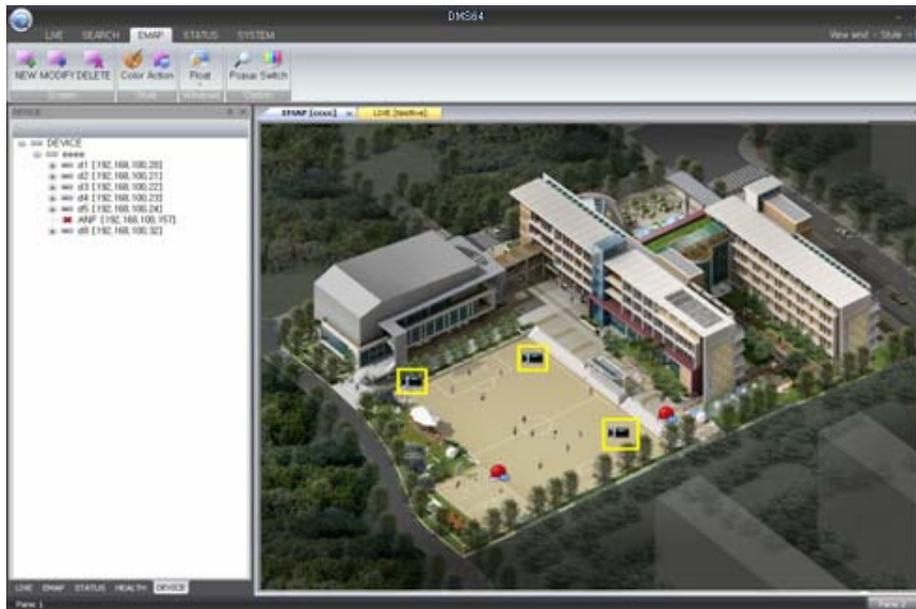
### 1.7.4 Search

- This function allows a user to view recorded images with the event log history, and also allows backup of any recorded images by Snapshot or AVI recording.



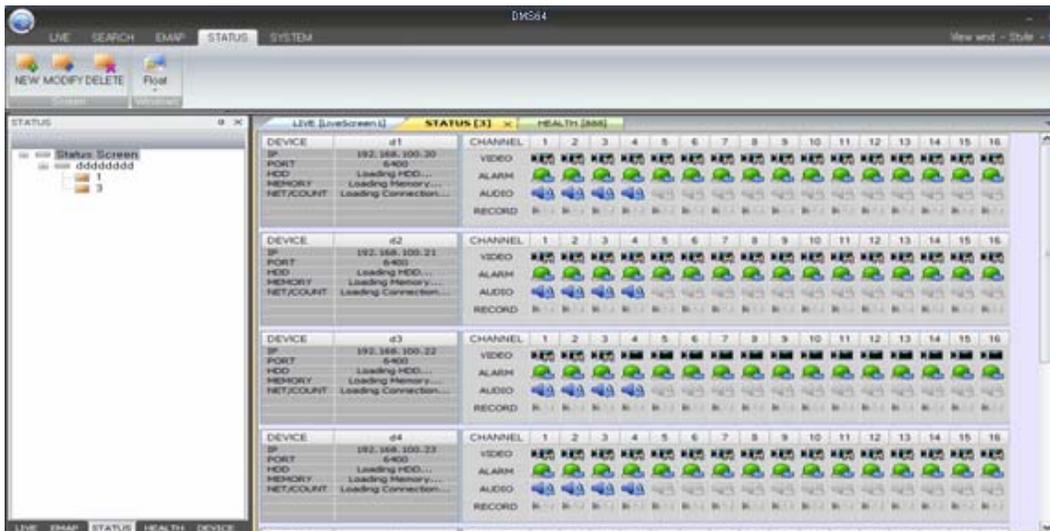
### 1.7.5 E-Map

- This function supports the use of camera and alarm icons placed on the e-map image, and allows monitoring of the corresponding camera image by clicking on any icon.
- Provides control functions for each camera, and when an event occurs on the specified camera, the user is notified with the icon using animation effects.



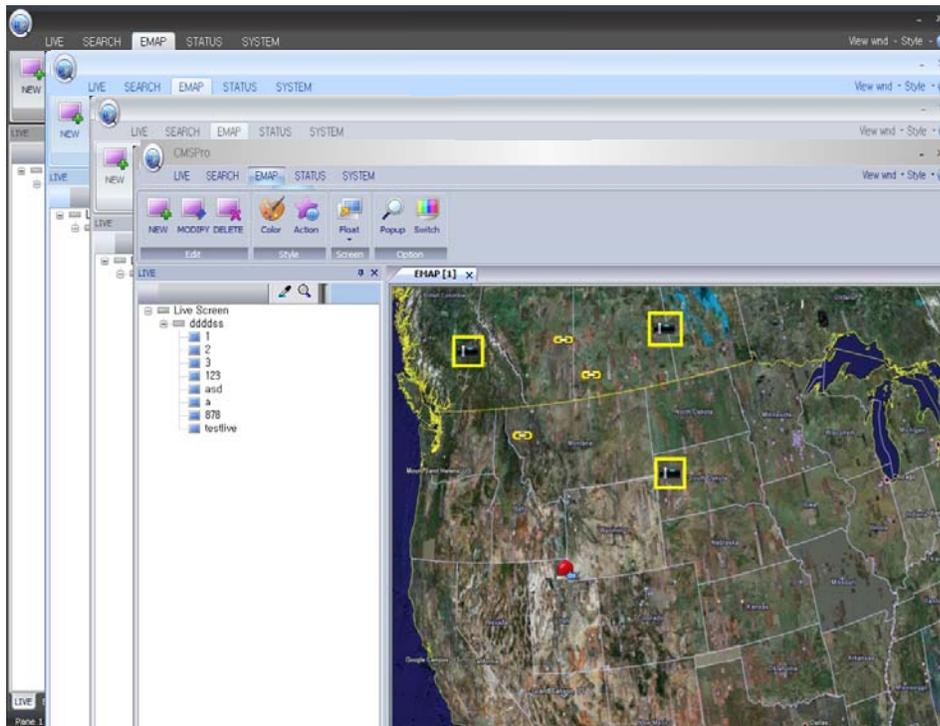
### 1.7.6 Status

- Shows all events (video, audio, alarm) transmitted from all devices connected to DMS, using icons for each channel, allowing a user to be able to monitor several facilities and all devices and channels in real-time on a single screen.



### 1.7.7 Style

- This function allows a user to modify the window border color of all DMS windows, according to the user's taste, choosing from 4 possible themes.



## 2 Registry, Setup and Service

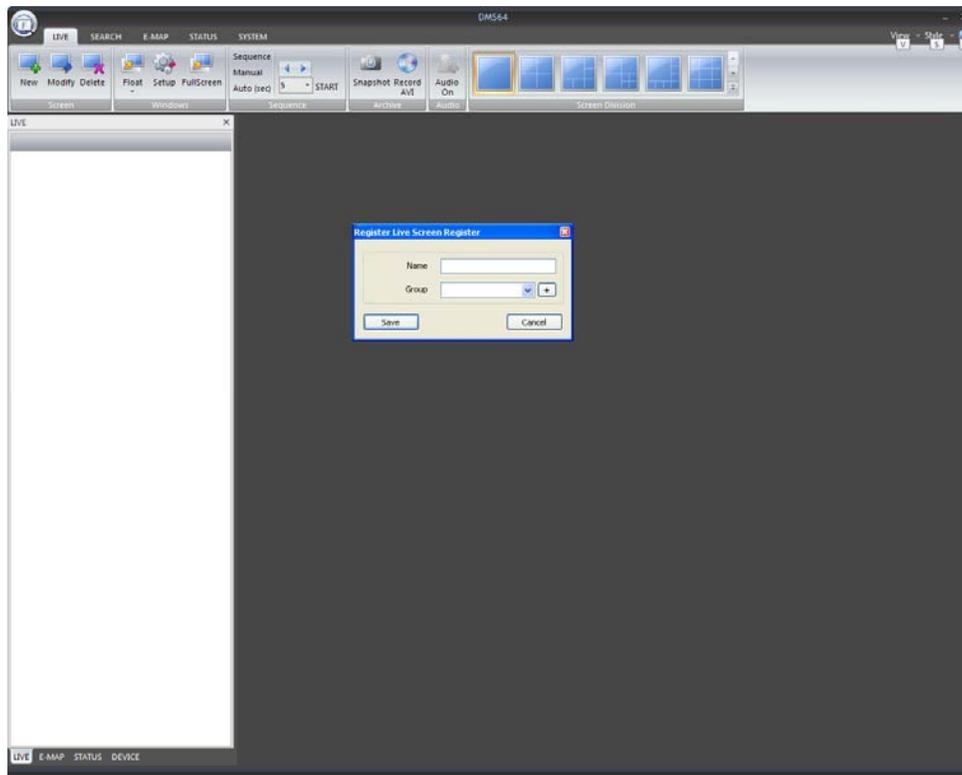
### 2.1 Live

#### 2.1.1 Summary

- Used to view Live video after selecting an output device on DMS.
- Supports viewing in Split Mode, Full Screen Mode and Sequence Mode.
- Includes Archiving and Snapshot functions for saving live still images and video.
- DMS control can be managed by registering user groups for each authority level.

#### 2.1.2 Create a Live Screen

- Click on the [LIVE] menu, then select [NEW] to register a new Live Screen.
- Click on the [+] button, and the Group registration screen will be as shown below..



- Input the Group Name to register the new group as shown below.

Group Name	Memo
SCREEN_GROUP	

Group name: SCREEN\_GROUP

Memo:

Buttons: Add, Modify, Delete, Close

- After registering the new group name, input the new Screen name and click save.

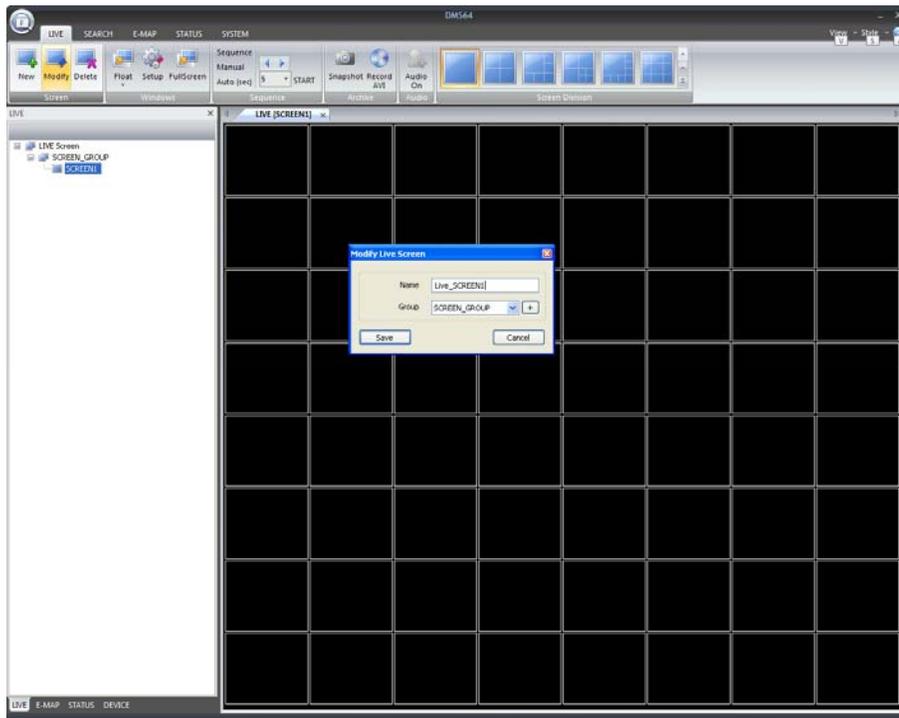
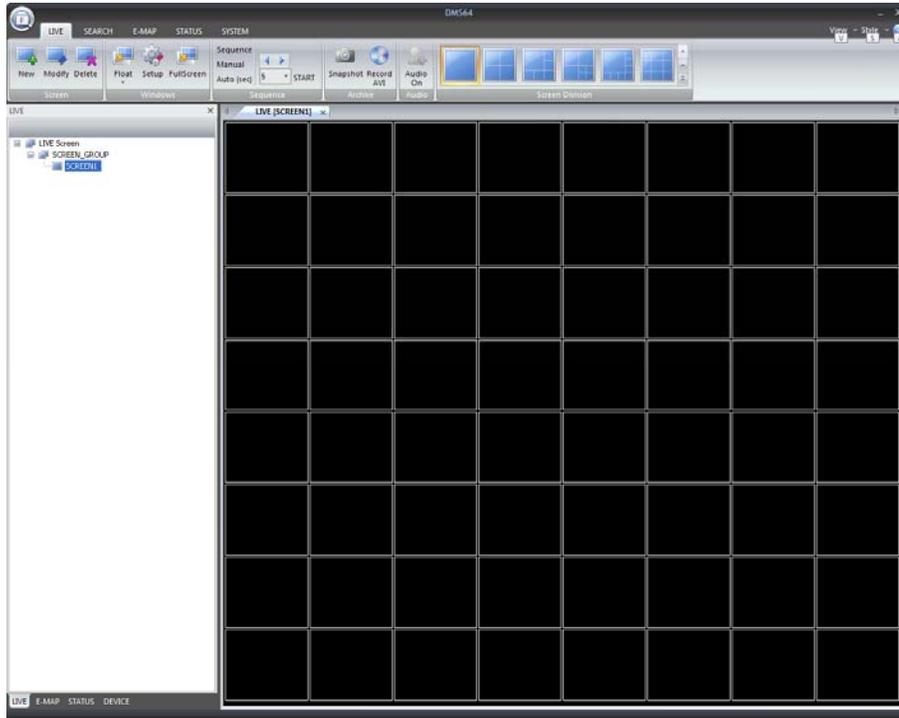
Name: SCREEN1

Group: SCREEN\_GROUP

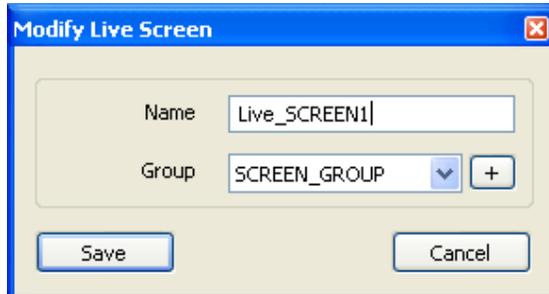
Buttons: Save, Cancel

### 2.1.3 Modify a Live Screen

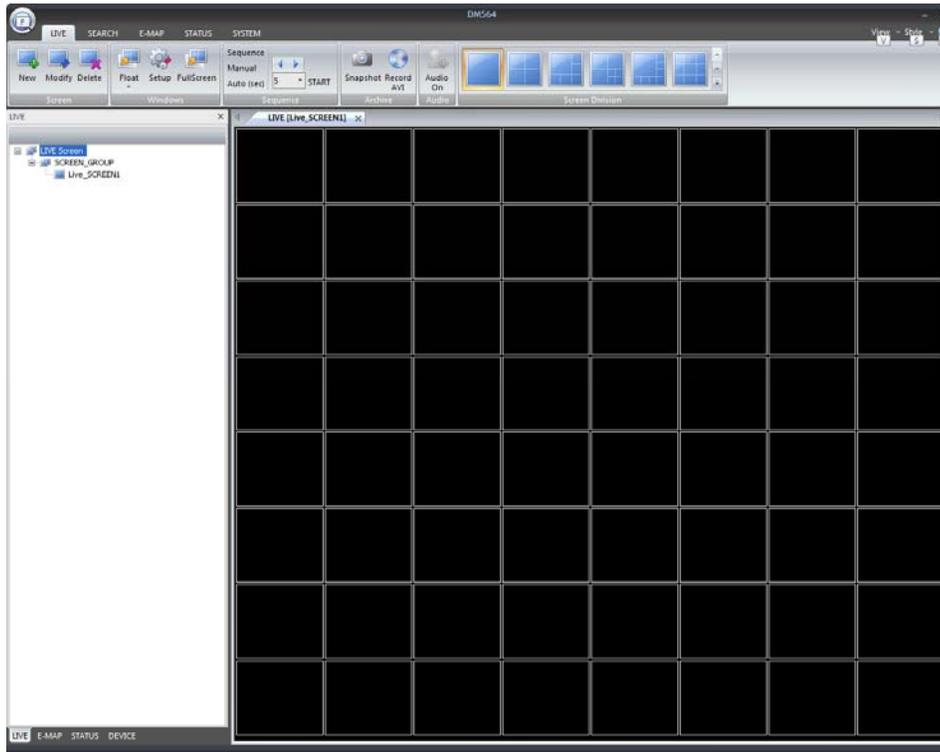
- Click on [LIVE], select the screen to be modified, and then click on [MODIFY]. You will be able to modify the selected screen, as shown below.



- Enter the Live Screen name or select another Live Screen Group, then press the Save button to save any changes.

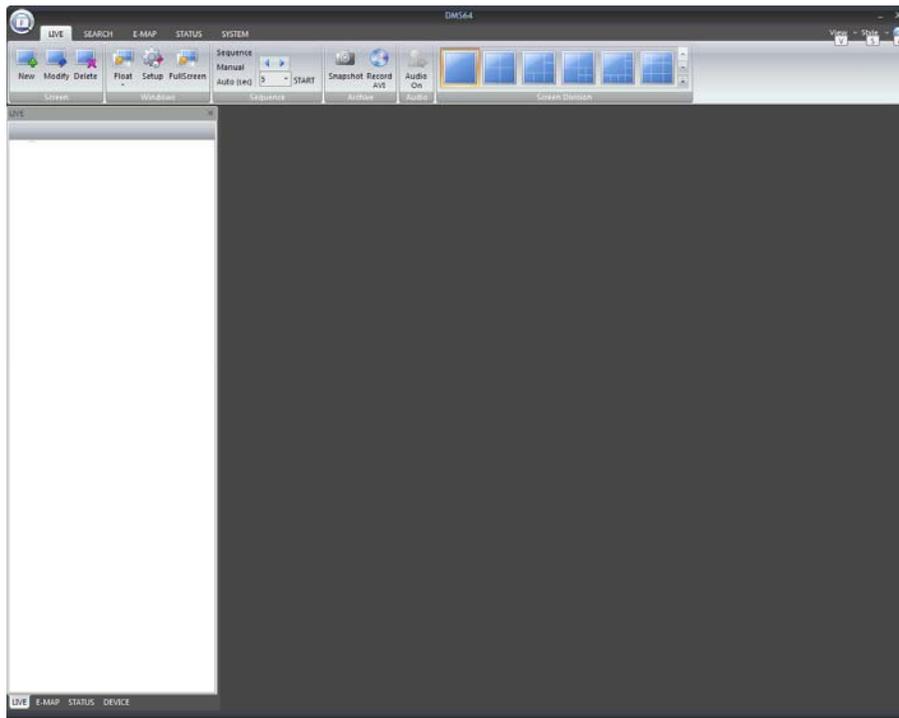
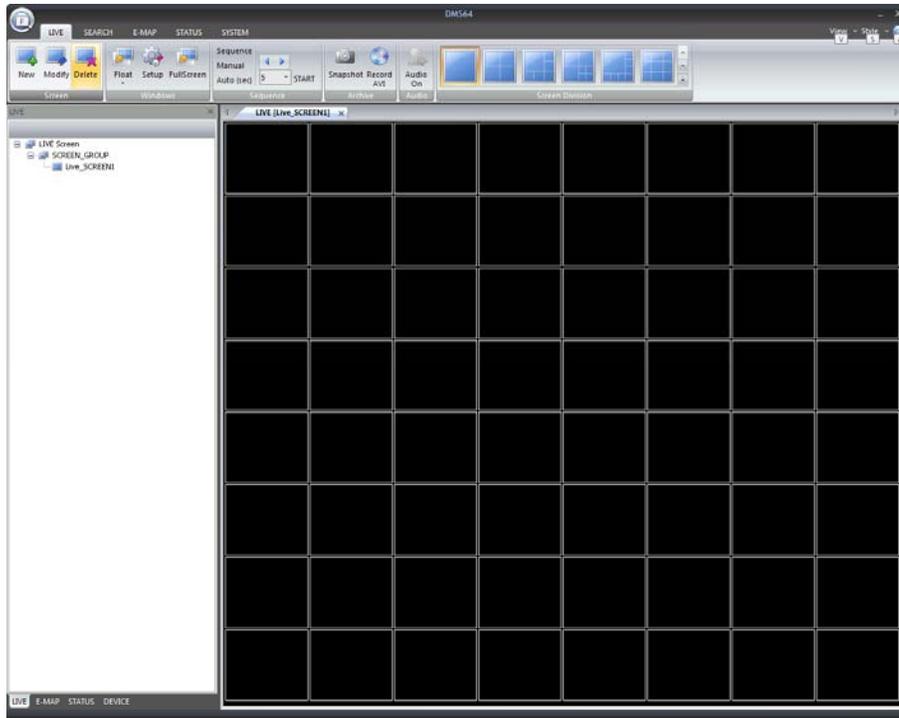


- Note the modified Live Screen name, as shown below.



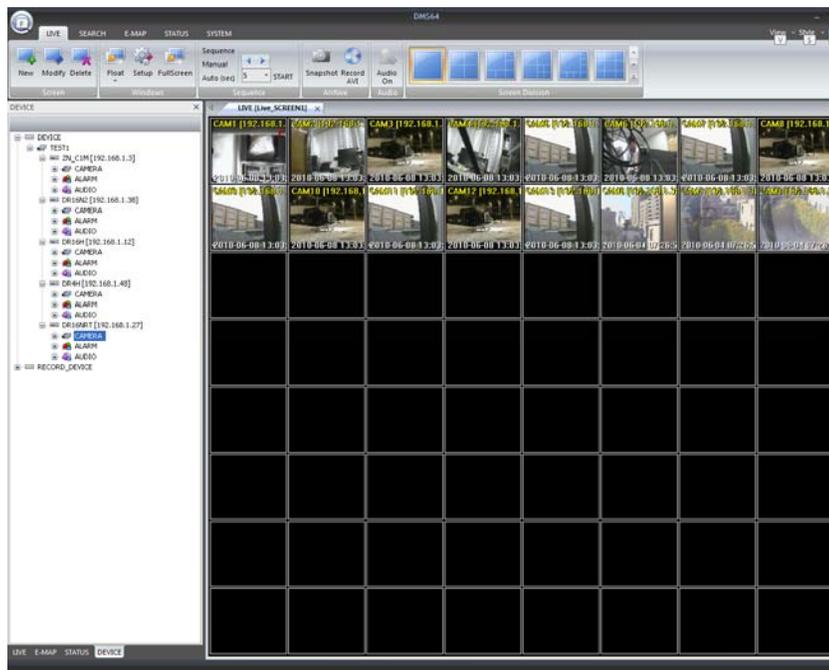
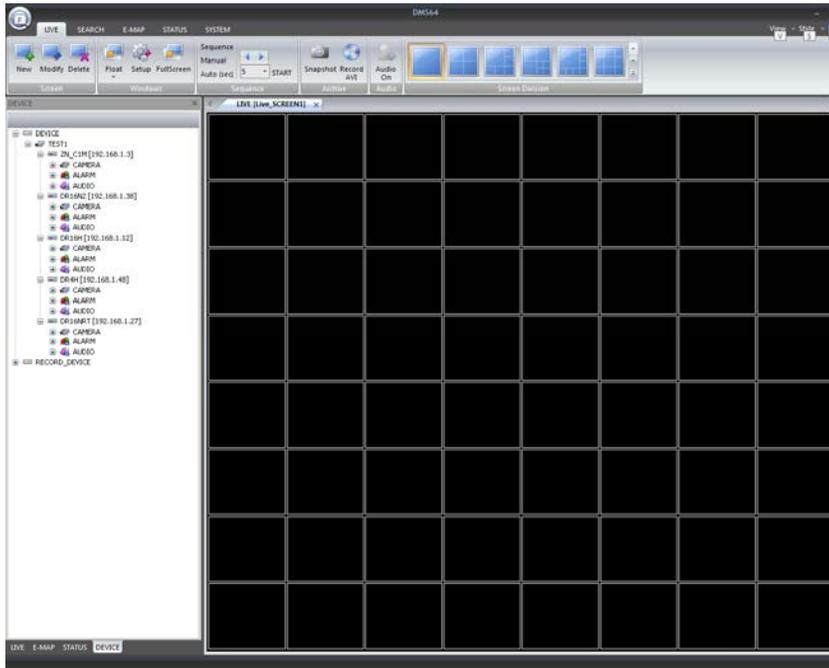
### 2.1.4 Delete a Live Screen

- Click on [LIVE], select the name of the screen to be deleted, then click on [DELETE] in order to delete the selected Live Screen.



### 2.1.5 Bind Device to Live Screen

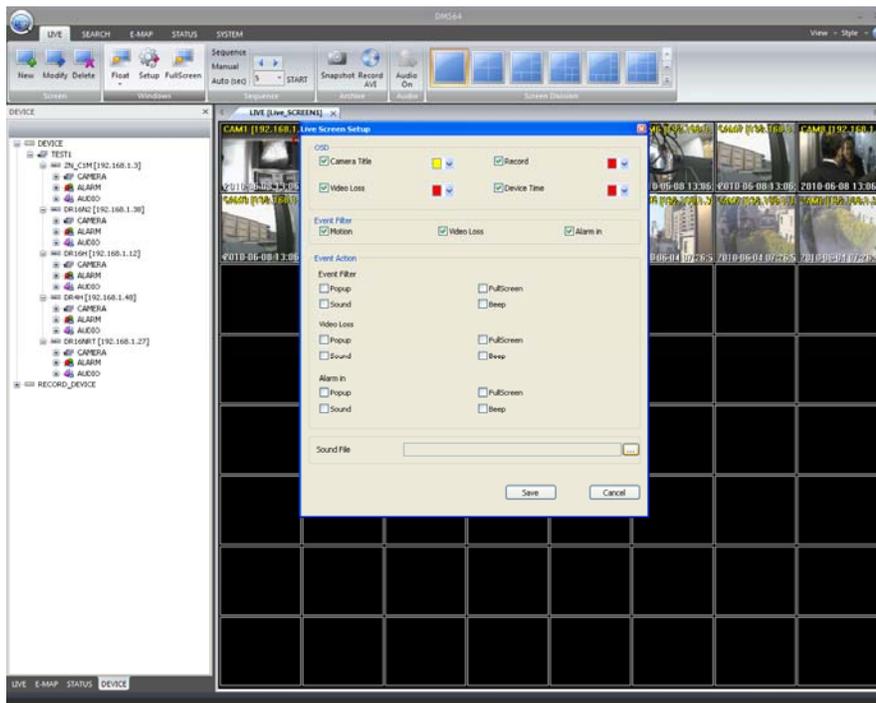
- Now select the 'DEVICE' tab on the bottom of the left sidebar, then expand the device tree to show the device(s) which you wish to bind to the Live Screen.
- Click and drag a 'CAMERA' item over to the viewing window on the right, in order to bind the selected device to the Live Screen.



**NOTE: Live Screen mapping is saved upon the first drag & drop Action. It will not save objects which are moved within the Screen. (IS THIS CORRECT?)**

### 2.1.6 Setup Live Screen

- Select the 'DEVICE' tab on the bottom of the left sidebar, then expand the tree to show all of the devices.
- Click and drag the 'CAMERA' item over to the viewing window on the right, in order to bind the selected device to the Live Screen.



### Live Screen Setup

#### OSD

Configure the OSD settings for the Live Screen.

Set the Color for each OSD feature.

#### Event Filter

Select which Events will be shown on the Live Screen.

Ignore any unselected Events on the Live Screen.

#### Event Action

Select the Action which will be taken upon each Event.

#### Sound File

Set the delay time for each Event Action.

### 2.1.7 Live Screen Sequence Mode

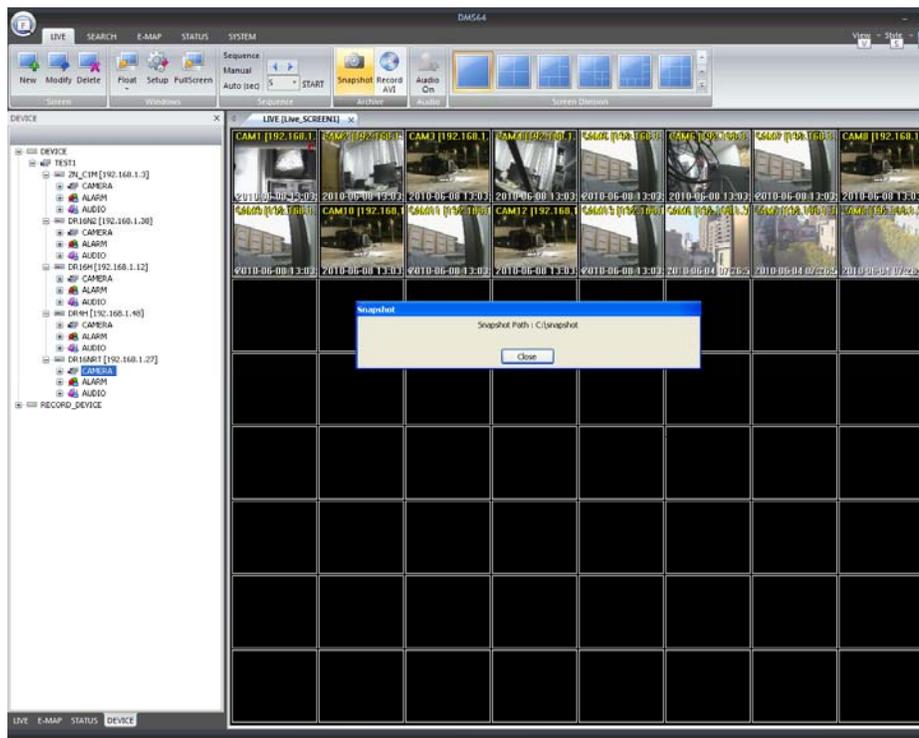
- Switch through all Live channels using the (<), (>) buttons in [LIVE] -> [Sequence].
- The channels can be automatically sequenced by clicking on the START button.
- The dwell time for sequencing will follow the time setting contained in "Auto (sec)".

**NOTE: Designated Screens are used in Sequence Mode, step by step.**

**If you want to change the Switch Mode Sequence, change the Screen Sequence. ???**

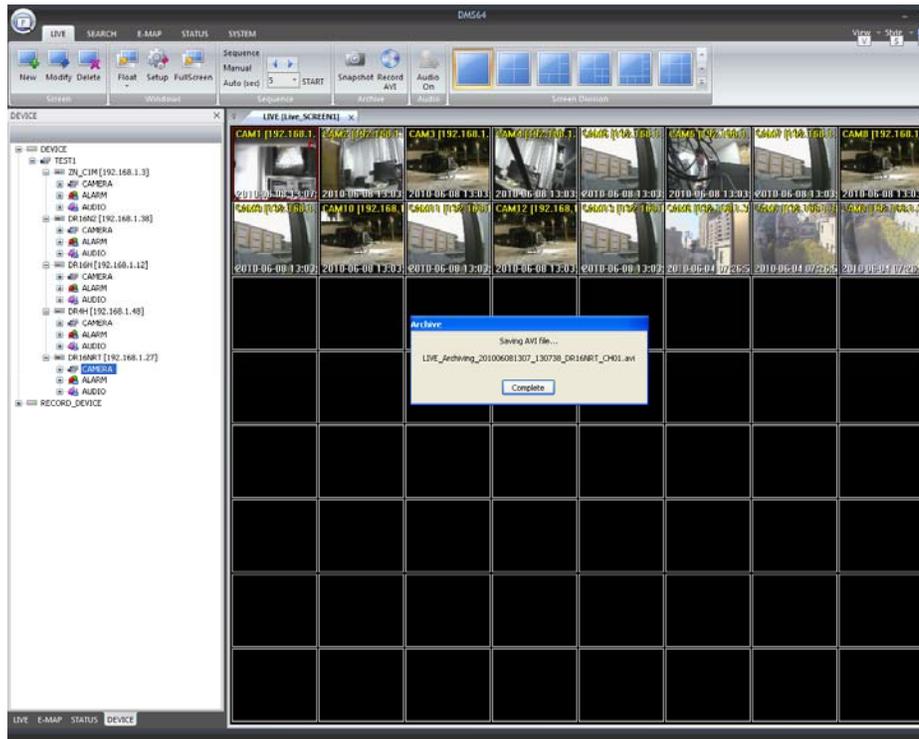
### 2.1.8 Live Screen Snapshot

- Live still images can be saved to the local PC by using the [Snapshot] button.



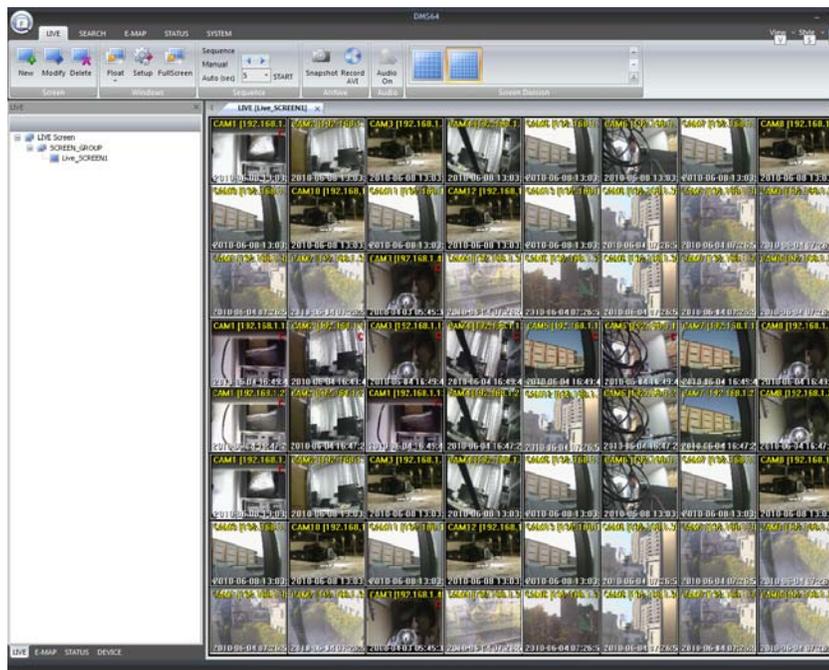
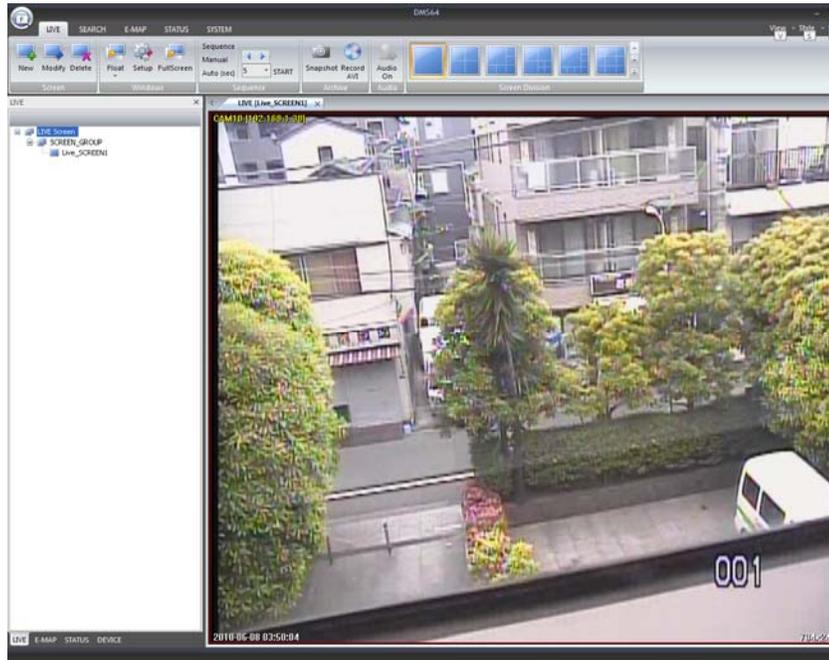
## 2.1.9 Live Screen Archiving

- Live video can be saved to the local PC (AVI file) by using the [Archiving] button.



### 2.1.10 Live Screen Layout

- There are 14 types of multi-channel layouts provided by DMS:  
[1, 4, 6, 7, 8, 9, 10, 12, 13, 16, 21, 29, 36, 64].



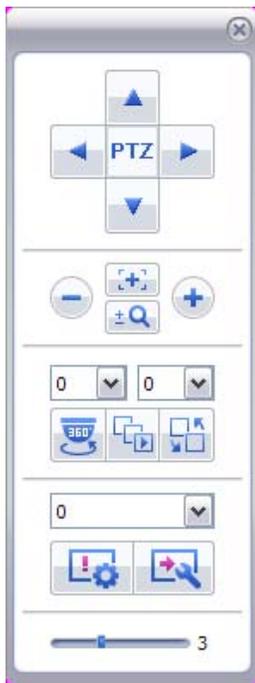
### 2.1.11 Live Screen Context Menu



Close Channel – Close the selected live channel.

Close All Channels – Close all live channels.

PTZ On/Off – Can toggle the PTZ control (for supported devices).



OSD ON – Can toggle the OSD mode shown on the screen.

Docking & Original State – Return to normal mode from Full Screen mode.

Snapshot – Can save the current image on the screen as a snapshot image.

AVI Backup - Can save the current live video of the selected channel to the local PC (AVI file).

Digital ZOOM – Toggle the Digital ZOOM mode for the selected channel.

Print – Send the current image shown on the selected channel to a local or network printer.

Screen Division – Change the current Multi-Channel mode, by selecting the new viewing mode:.

- 1 CH
- 4 CH
- 6 CH
- 7 CH
- 8 CH
- 9 CH
- 10 CH
- 12 CH
- 13 CH
- 16 CH
- 21 CH
- 29 CH
- 36 CH
- ✓ 64 CH

## 2.2 Search

### 2.2.1 Summary

- Recording data from a DIGIMASTER DVR can be shown within DMS.
- Playback local recorded video data of a PixelPro Series IP Camera.
- Click and Drag an entire device and its channel list over to the Search window.
- No search functions can be used unless there is a connection to the target device.

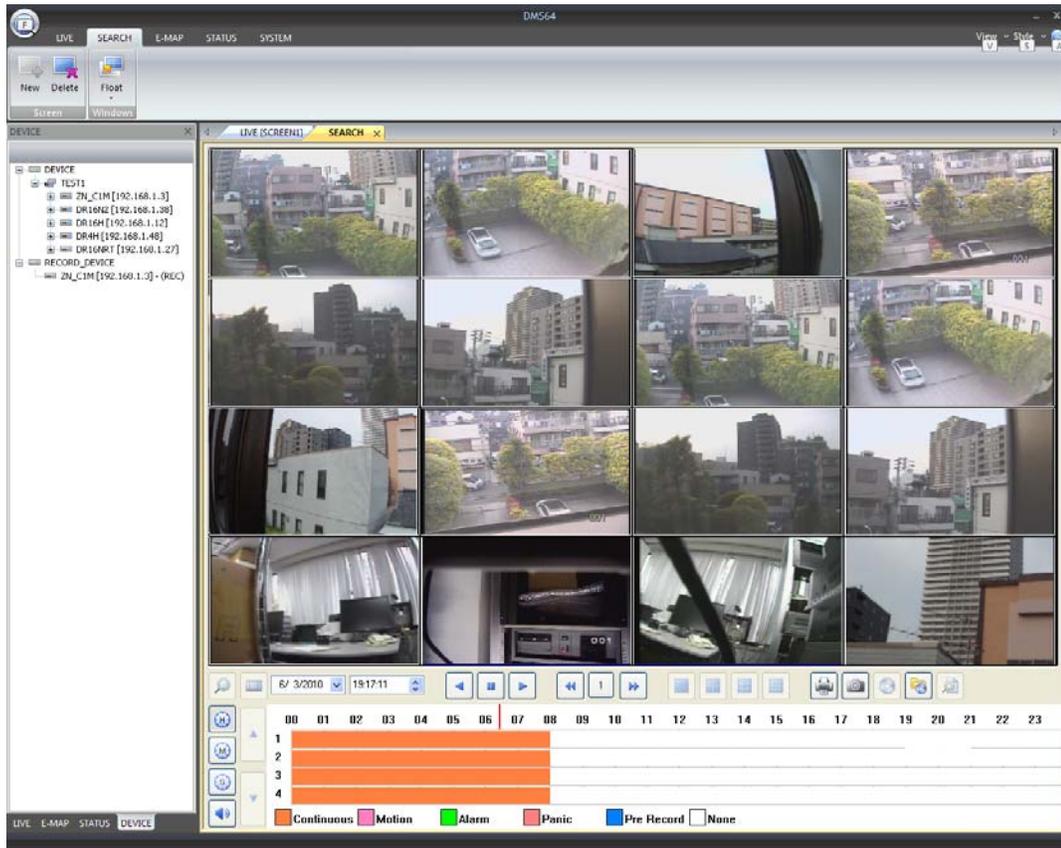
### 2.2.2 Search Button State

-  New : Reset the search window. (Can only use one search window at a time.)
-  Delete : Close the Search window.
-  Float : Allows you to Float the Search window over to another monitor.
-  Search Forward : Forward play from the selected position on the timeline.
-  Search Backward : Reverse play from the selected position on the timeline.
-  Search Stop : Stop playback from search window.
-  Display playback using 1 / 4 / 9 / 16-channel multi-screen modes.
-  Print
-  Snapshot
-  Record AVI
-  Open the recorded data folder on the local PC.
-  Search DVR Event Log.

- 2009-10-18 04:11:42 Enter current timeline position.
-  Switch to Panorama mode.
-  Switch to Search mode.
-  Set Time Line unit to one minute..
-  Set Time Line unit to one second
-  Set Time Line unit to one hour.
-  Change the playback speed and direction (1~64x, forward or reverse).
-  Enable Audio.

### 2.2.3 Playback (Forward, Backward)

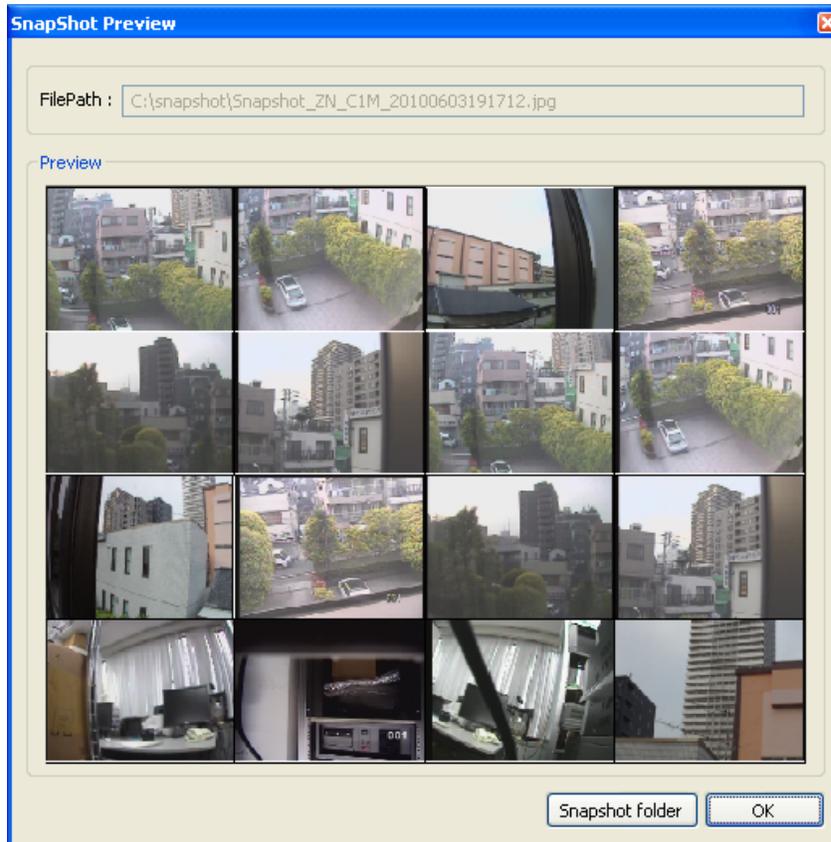
- The timeline display will change to show recorded footage on the selected day.
- Press the 'Play' button to playback from the current position on the timeline.
- During playback, you may choose the speed and direction of play.



**NOTE:** The Search window also supports a Panorama Search Function.  
Split Screen -> CH Selection -> Click Panorama  Button

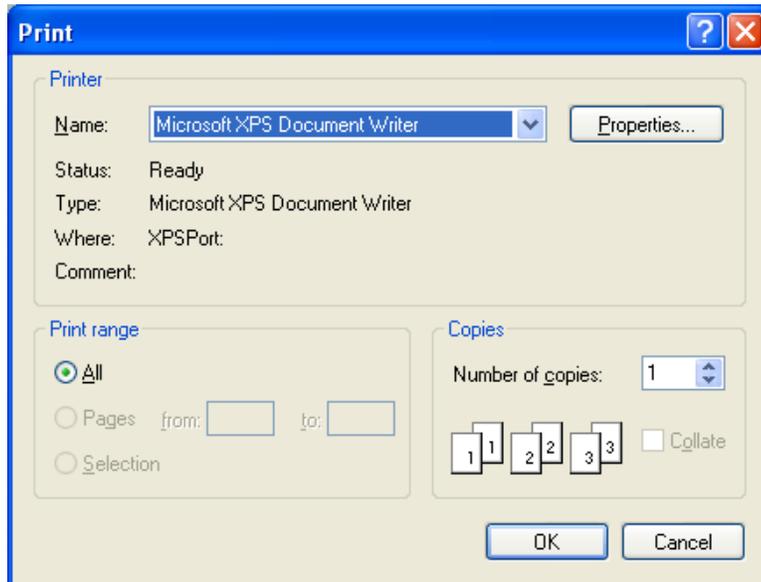
### 2.2.4 Snapshot (BMP, JPG)

-  Snapshot function button will bring up a Snapshot Preview window.
- The window will show the destination path and filename of the recording folder.
- Double click the preview image, then it could open the original image which will be saved.



### 2.2.5 Print

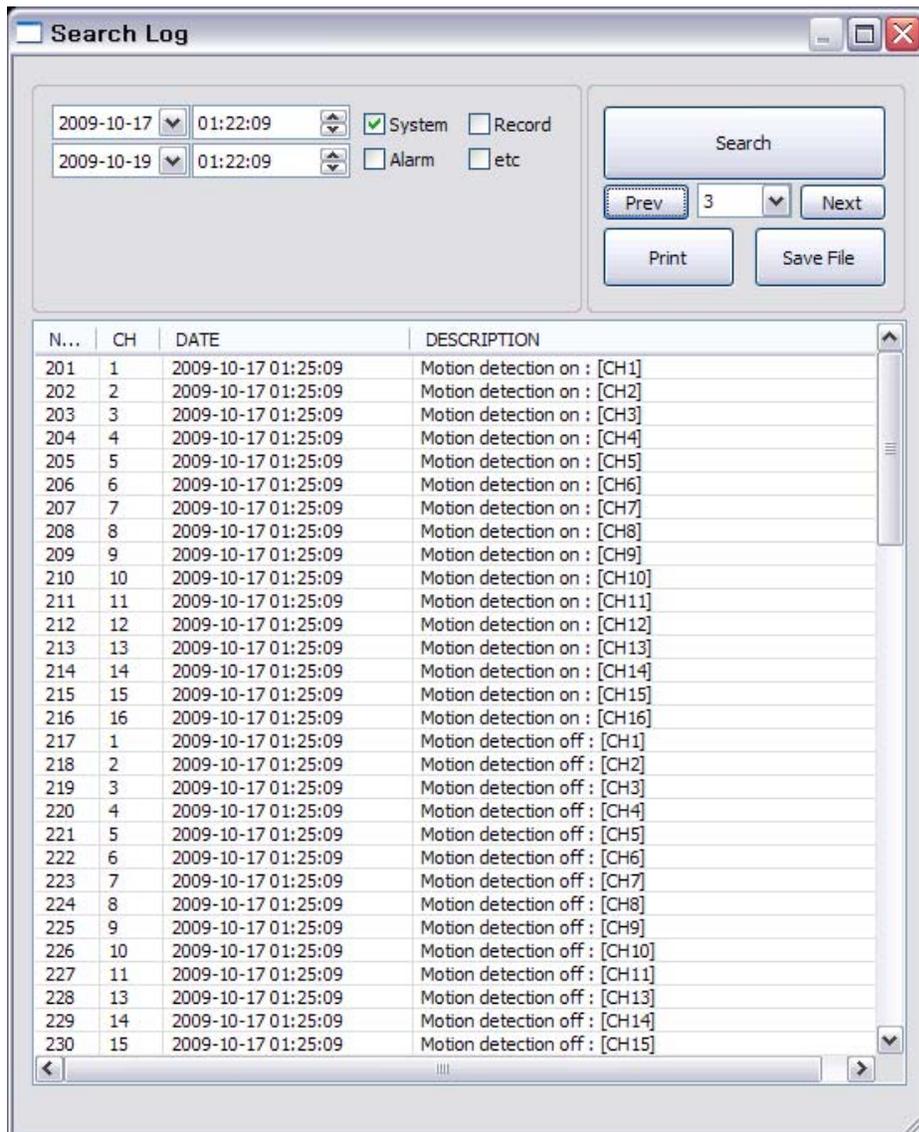
- Print the current selected image to a local or network printer.
- Make sure that all applicable printer drivers have been installed.



**NOTE: The current Split Screen will be printed. The selected channel is not printed.**

### 2.2.6 Log

- Search the Event Log of any connected DVR.
- Select the desired date/time range and any search filters, and click 'Search'.
- If the Event Log results list contains more than 100 items, you may use the 'Prev' and 'Next' buttons to scroll through the list.
- The Event Log can be printed or saved as a TXT file.



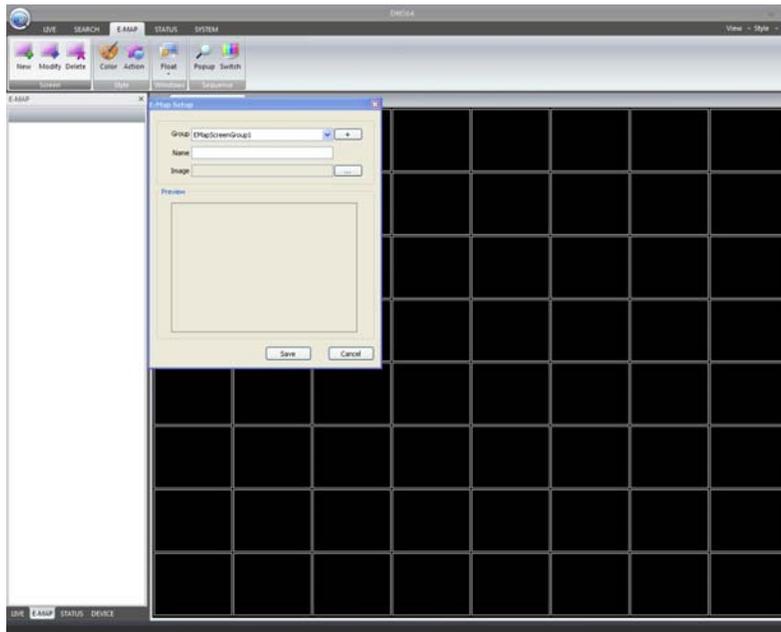
## 2.3 E-MAP

### 2.3.1 Summary

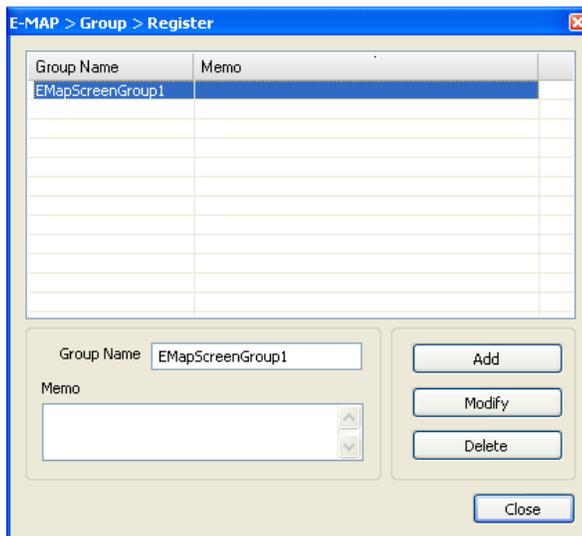
- This function supports the use of camera and alarm icons placed on the e-map image, and allows monitoring of the corresponding camera image by clicking on any icon.

### 2.3.2 Create an E-Map Screen

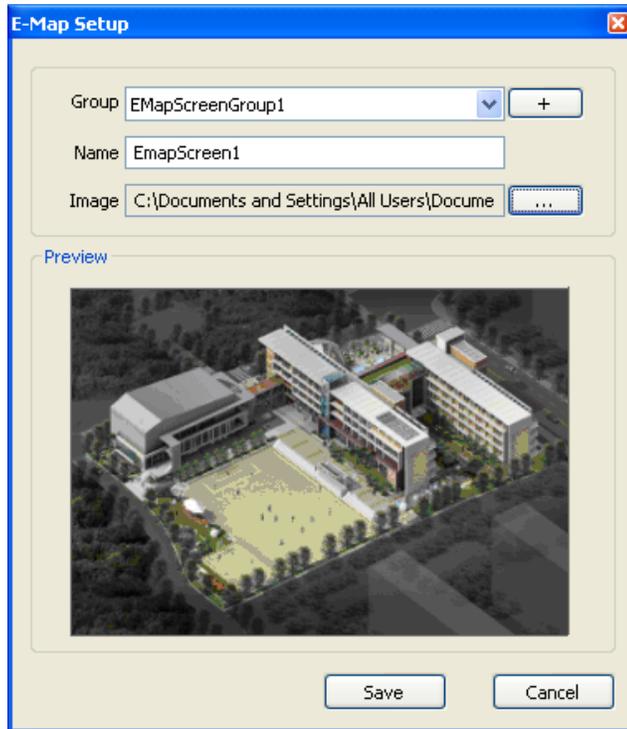
- Click [EMAP], and then click [NEW] to see the E-Map registration window.
- Click the [+] button (as shown below) to see the E-Map Group registration screen.



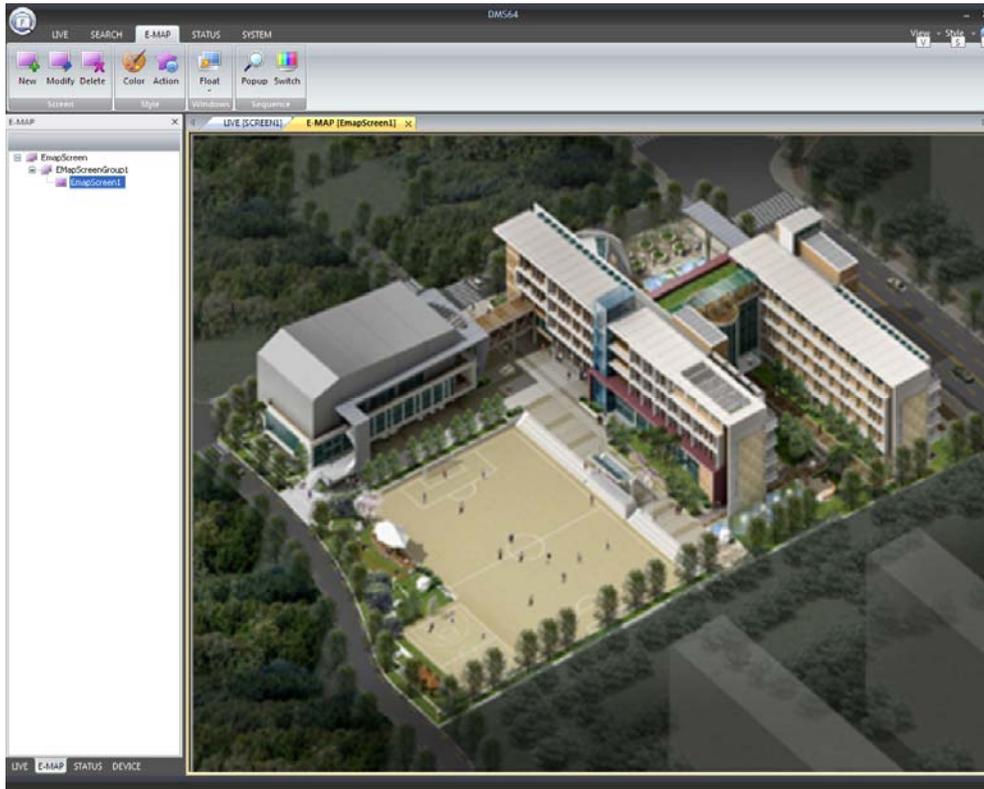
Enter the new Group name and Click 'Add' (as shown below).



Enter the E-Map Screen name (as shown below) and click on the [...] button to register the Map Group on the “Group tree” window.

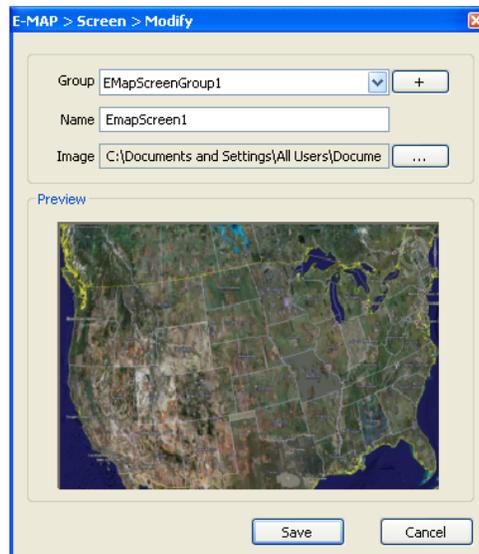
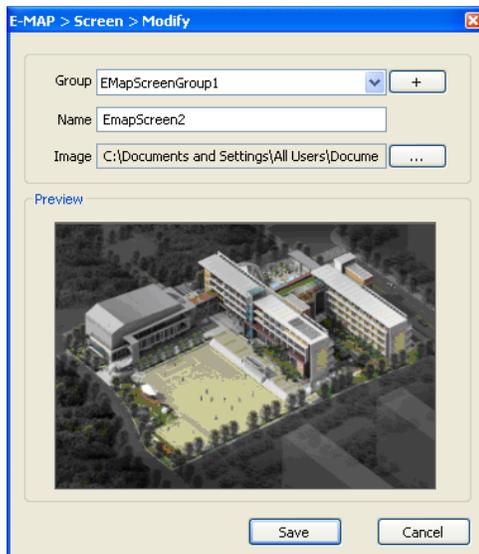


The initial E-Map Screen after the newly-created group and screen have been saved.



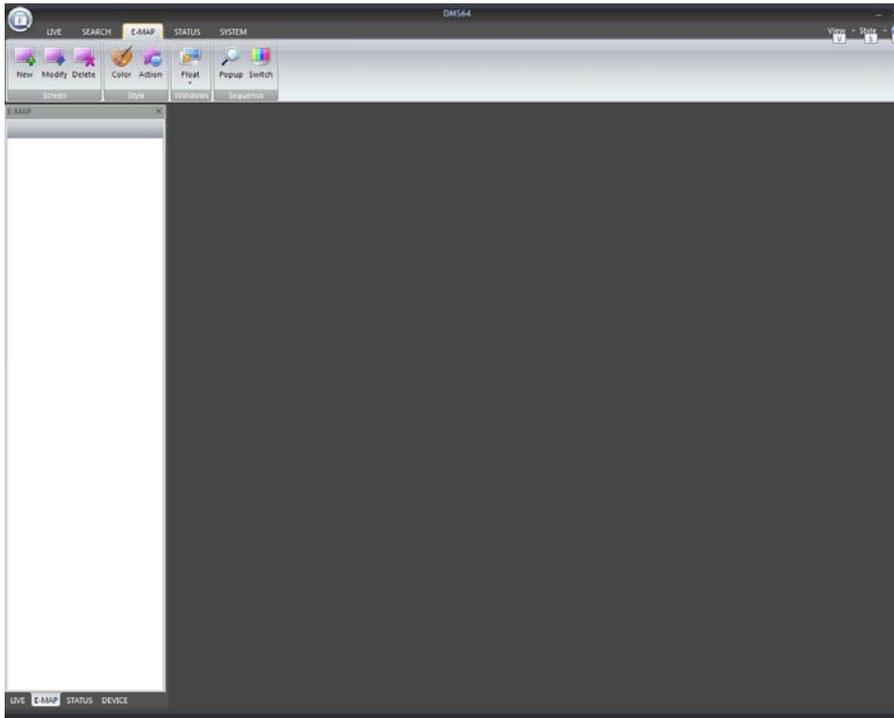
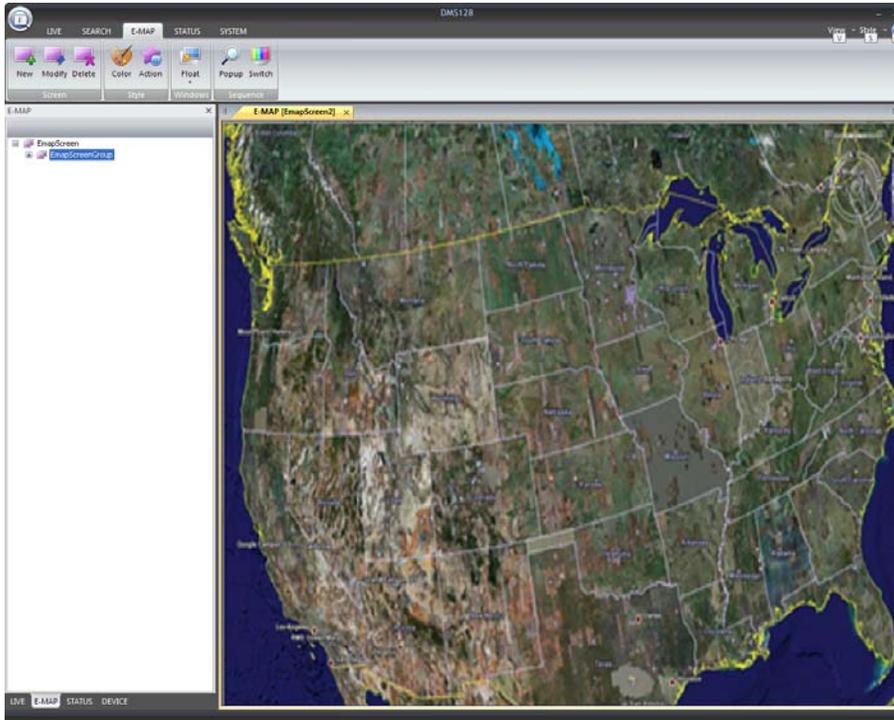
### 2.3.3 Modify a E-Map Screen

Click on [EMAP], select an E-Map Screen, and then click [MODIFY] to modify an existing E-Map.



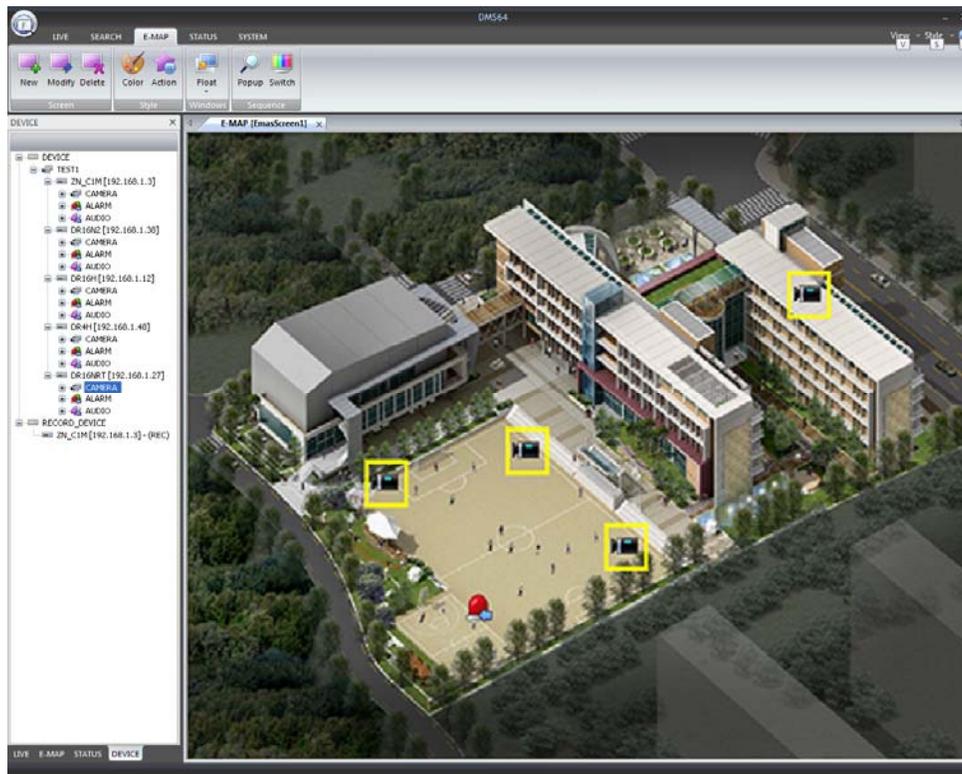
### 2.3.4 Delete a E-Map Screen

Click on [EMAP], select an E-Map Screen, and then click [DELETE] , to delete an E-Map..



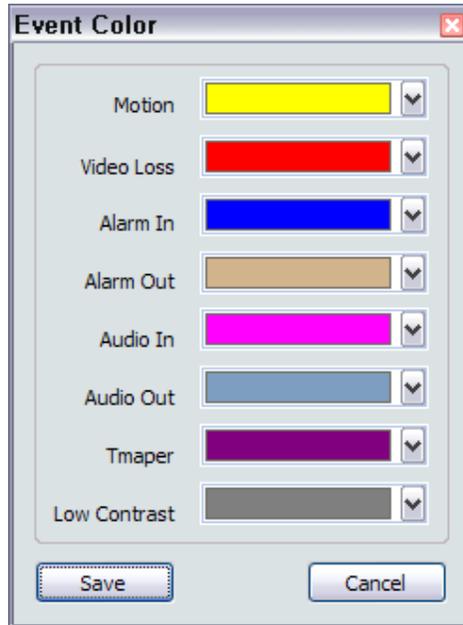
### 2.3.5 Bind Device to E-Map Screen

- Click on the 'DEVICE' tab at the bottom of the left sidebar panel, then expand the tree.
- Click and Drag the 'CAMERA' item to the E-Map Screen to bind the selected device to the current E-Map Screen.



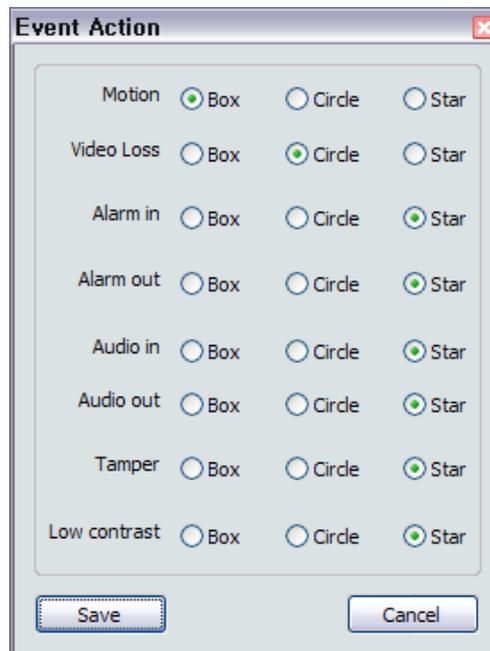
### 2.3.6 E-Map Screen Event Color

Click on [EMAP], and then click on the [Color] menu, in order to select the desired Event Action Color for each type of event.



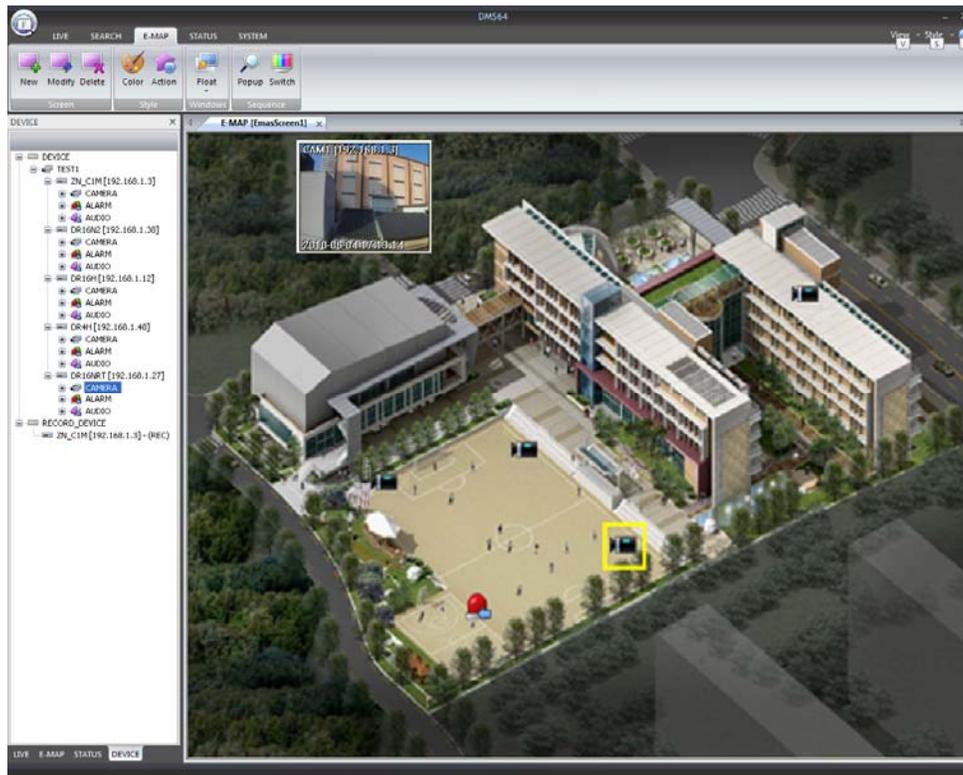
### 2.3.7 E-Map Screen Event Action

Click on [EMAP], and then click the [Action] menu in order to select the desired animated icons which will correspond with each type of Event Action.



### 2.3.8 E-Map Screen Popup (Manual / Auto)

Click on [EMAP], and then click on [Popup] to enable video pop-up upon double-clicking an icon.

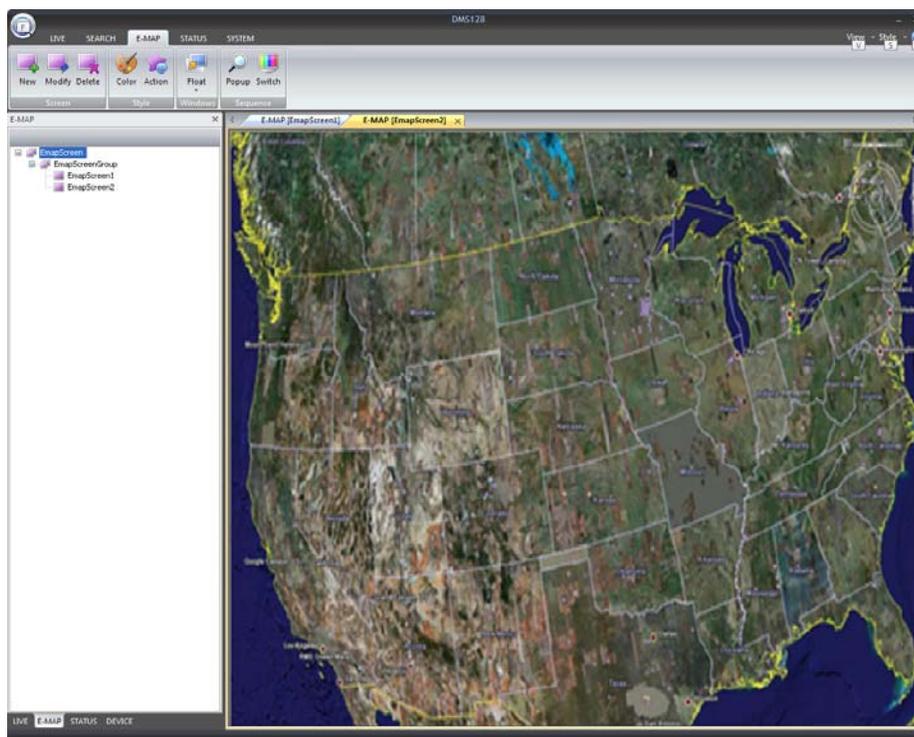


**NOTE: The E-Map window will support up to 8 Event Popup Screens.  
It will allow 8 Popup Screens after the first detected Sensor, and the next event popup  
would occur after 10 seconds.**

### 2.3.9 E-Map Sequence Switch (Manual / Auto)

Note: This function is available on DMS256 only.

- Click on the 'DEVICE' tab at the bottom of the left sidebar, and then expand the tree.
- Click and Drag the Screen from the E-Map tree onto the selected E-Map Screen, this will generate a Yellow Link Icon.
- Move E-Map Screen by double-clicking.
- When clicking on the [Switch] menu, the E-Maps will switch automatically.
- When the corresponding screen has an event, the E-Map will switch automatically.



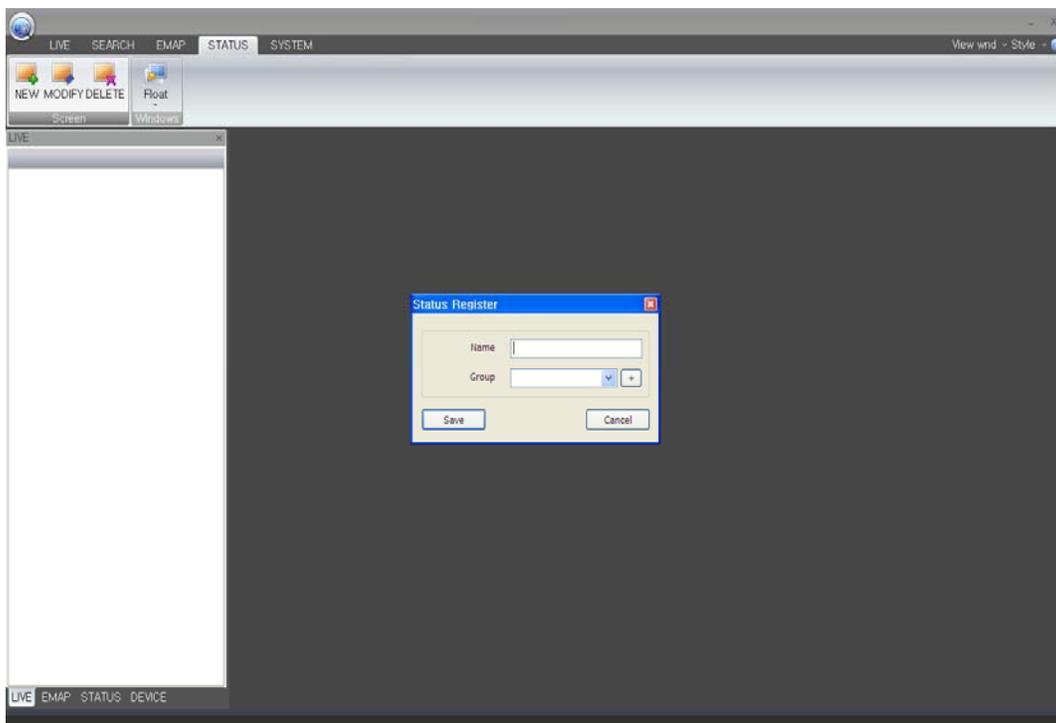
## 2.4 STATUS

### 2.4.1 Summary

- Shows events (video, audio, alarm) which occur on the devices linked with DMS, sorted by channel, allowing the user to be able to monitor several devices and all channels in real-time.

### 2.4.2 Create a STATUS Screen

- Click on [EMAP], and then click [NEW] to see the Status registration window
- Click the [+] button (as shown below) to view the E-Map Group registration screen.



Click the [+] button (as shown below) to see the Status Group registration screen.

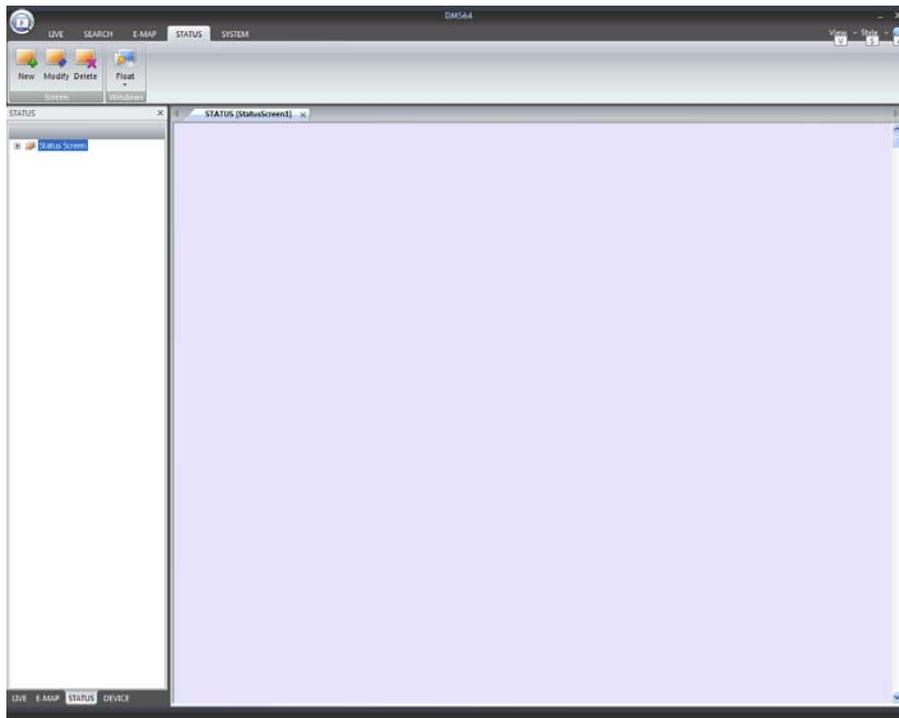


Click 'ADD' after entering the Group name (as shown below).

The screenshot shows a dialog box titled "Status Register" with a close button (X) in the top right corner. It contains a table with two columns: "Group Name" and "Memo". Below the table, there are input fields for "Group Name" (containing "StatusScreenGroup1") and "Memo". To the right of these fields are three buttons: "Add", "Modify", and "Delete". At the bottom right of the dialog is a "Close" button.

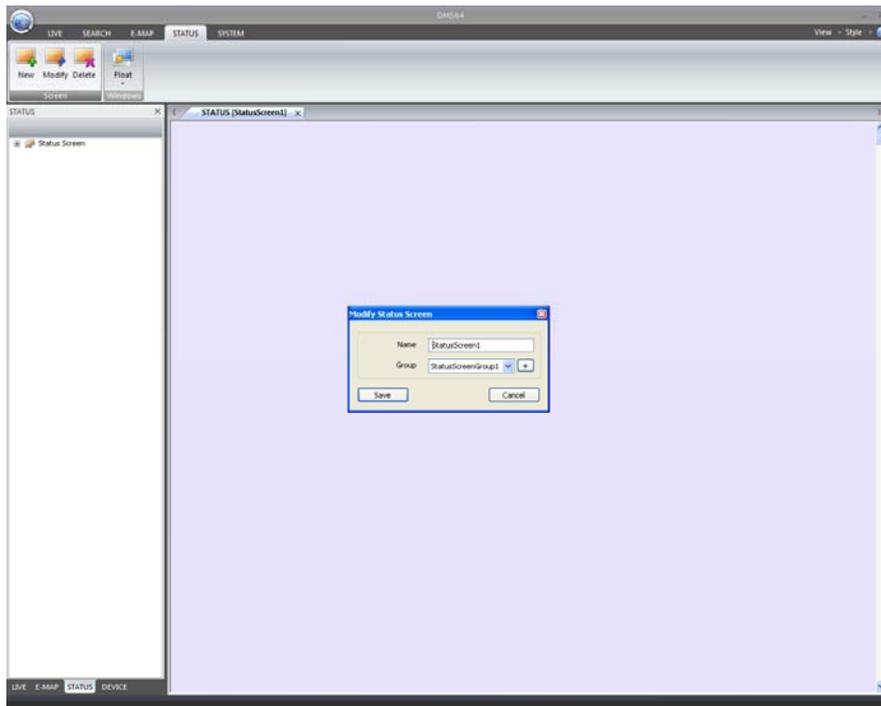
Click 'Save' after entering the Screen name (as shown below).

The screenshot shows a dialog box titled "Status Register" with a close button (X) in the top right corner. It contains two input fields: "Name" (containing "StatusScreen1") and "Group" (containing "StatusScreenGroup1" and a dropdown arrow). To the right of the "Group" field is a "+" button. At the bottom of the dialog are two buttons: "Save" and "Cancel".

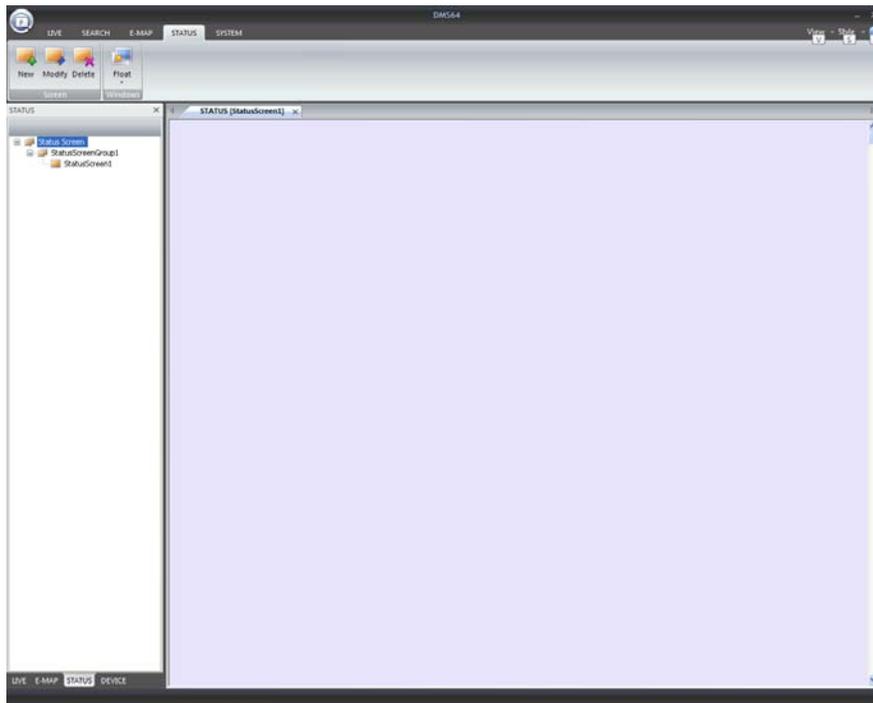


### 2.4.3 Modify a STATUS Screen

Click on [STATUS], select a Status Screen, and then click [MODIFY] in order to modify the selected Status Screen (as shown below).

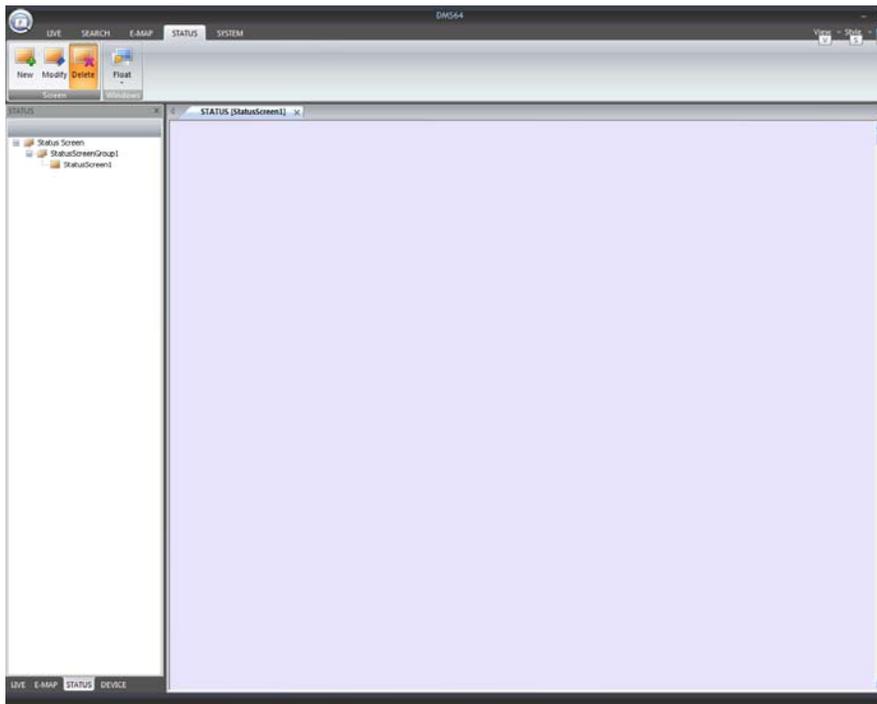


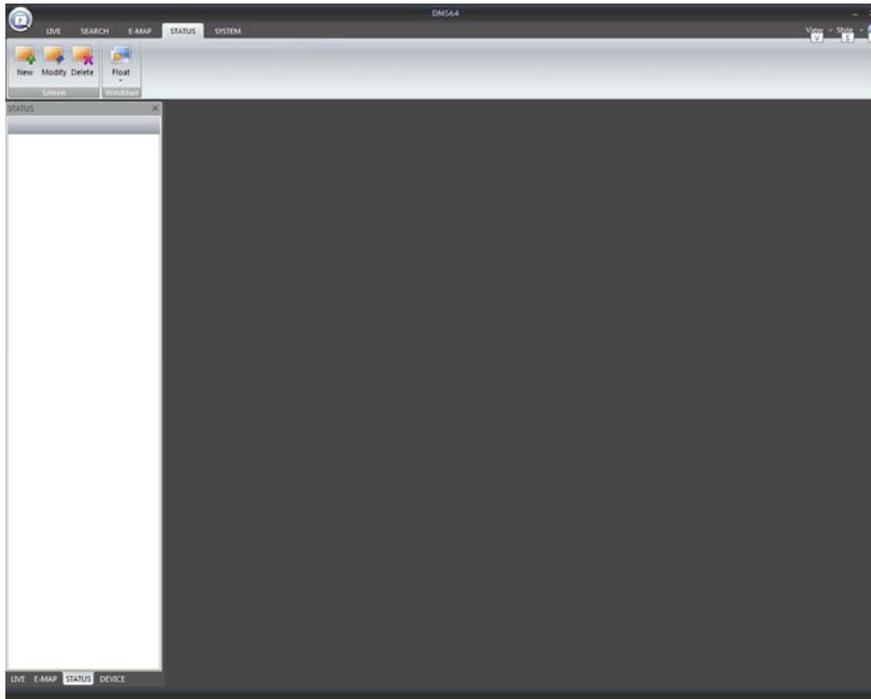
After changing the Screen name and clicking 'Save', the new name should appear.



#### 2.4.4 Delete a STATUS Screen

Click on [STATUS], select a Status Screen, and then click [DELETE] in order to delete the selected Status Screen.

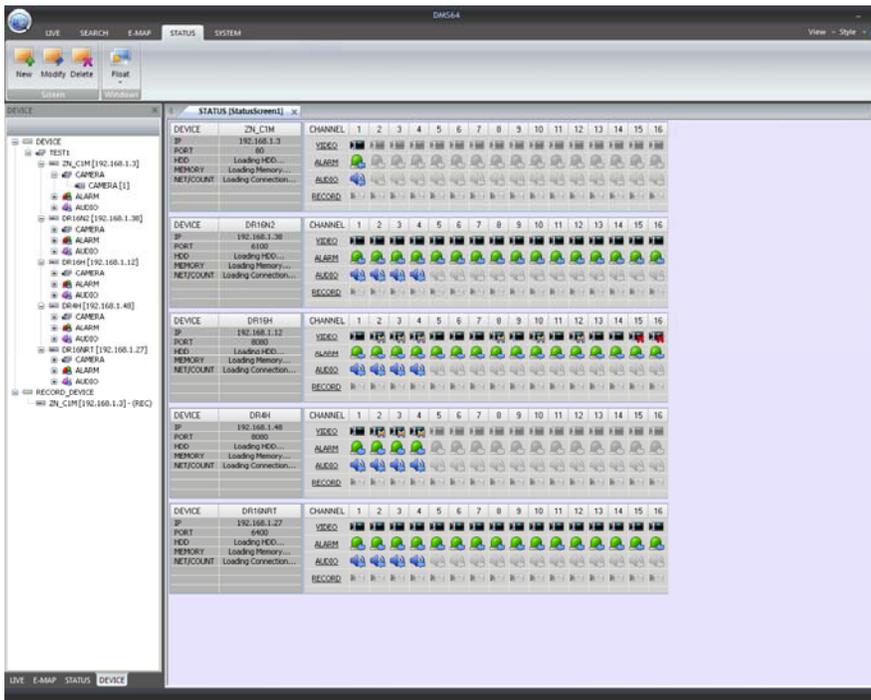




### 2.4.5 Bind a STATUS Screen

Select the 'DEVICE' tab on the bottom of the left sidebar menu. Click and Drag the 'Device' item over to the main window in order to bind the selected Device to the Status Screen.

(Group Drag & Drop)



### 2.4.6 STATUS Screen Event Icon

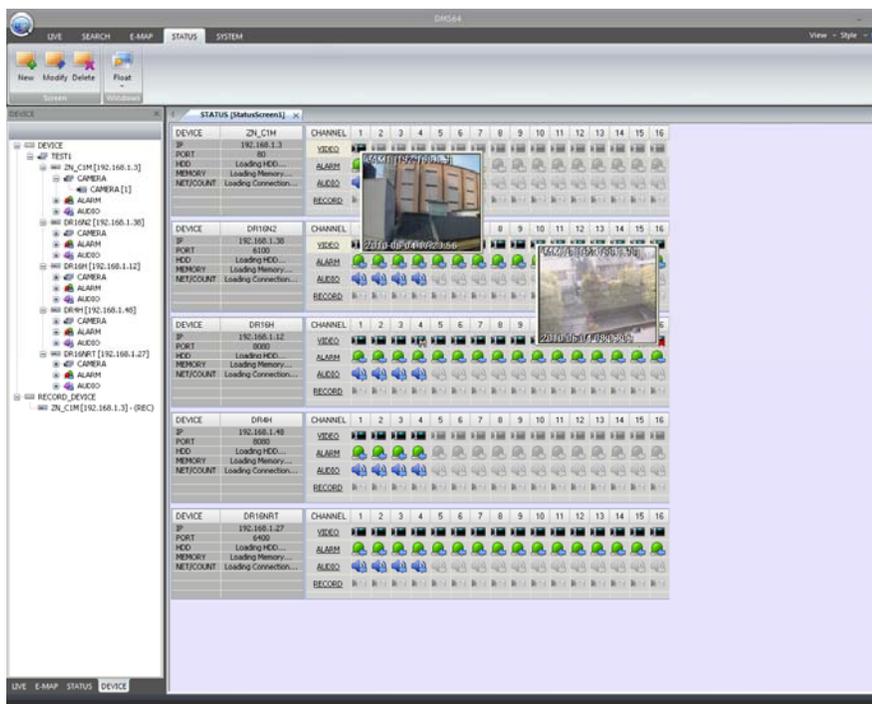
These status icons will reflect the current status of each channel on the connected device (as shown below).

(Motion, Video Loss, Alarm, Audio Event)

DEVICE	d1	CHANNEL	1
IP	192.168.1.20	VIDEO	
PORT	6400	ALARM	
HDD	Loading HDD...	AUDIO	
MEMORY	Loading Memory...	RECORD	
NET/COUNT	Loading Connection...		

### 2.4.7 STATUS Screen Popup

Click on a channel from any registered device within the Status Screen in order to view a small single-channel live view window of the selected channel, (as shown below).



## 2.5 System

### 2.5.1 Summary

- These buttons will work with the Register/Setup/Search functions of DMS.

### 2.5.2 System Button State

- Register
  -  Device : Register a new device for connection.
  -  User : Register a new user for operating the DMS software.
  -  IP Camera : Register local recording for one or more IP Cameras.
- Archive
  -  Snapshot : Save a Snapshot Image.
  -  Record AVI : Begin Archiving (in AVI format).
- Log
  -  Device : Search DVR Event Log.
  -  System : Search DMS Log.
  -  Setup : Remote Configuration of a DVR.
- Connect
  -  Connect : Try to connect using the registered DVR information.
  -  Disconnect : Disconnect from any currently connected devices.

### 2.5.3 Device Registration

- Register a new device.
- Add : Register after entering the correct setup information.
- Modify : Modify setup information of selected registered device(s).
- Delete : Delete the selected device from the registered list of devices.

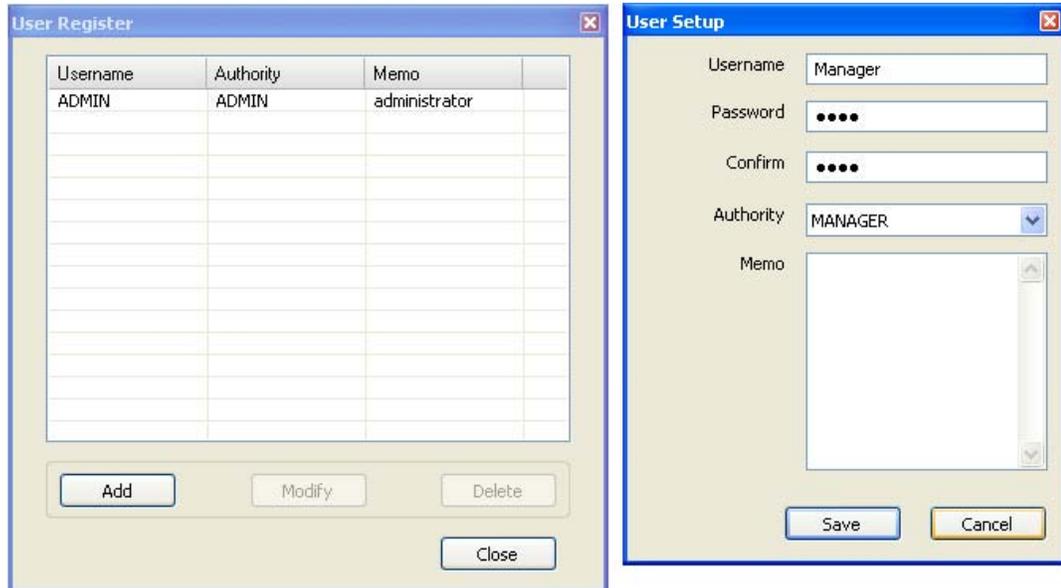
The screenshot shows a window titled "Device Register" with a table of registered devices and a form for adding new ones. The table has columns for Group, Company, Model, Name, IPAddress, Port, UserID, Password, and Audit. The form below the table includes fields for Company (DR\_N), Model (DR16N), Group (TEST1), Device name, IP Address, Port, User ID, Password, and Confirm Password. There are also buttons for Add, Modify, Delete, and Close, and a checked "Connect" checkbox.

Group	Company	Model	Name	IPAddress	Port	UserID	Password	Aud
TEST1	IP_CAM	PIXELPRO(720P)	ZN_C1M	192.168.1.3	80	ADMIN	1234	Yes
TEST1	DR_N	DR16N2	DR16N2	192.168.1.38	6100	ADMIN	1234	Yes
TEST1	DR_H	DR16H	DR16H	192.168.1.12	8080	ADMIN	1234	Yes
TEST1	DR_H	DR4H	DR4H	192.168.1.48	8080	ADMIN	1234	Yes
TEST1	DR_N	DR16NRT	DR16NRT	192.168.1.27	6400	ADMINISTR...		Yes

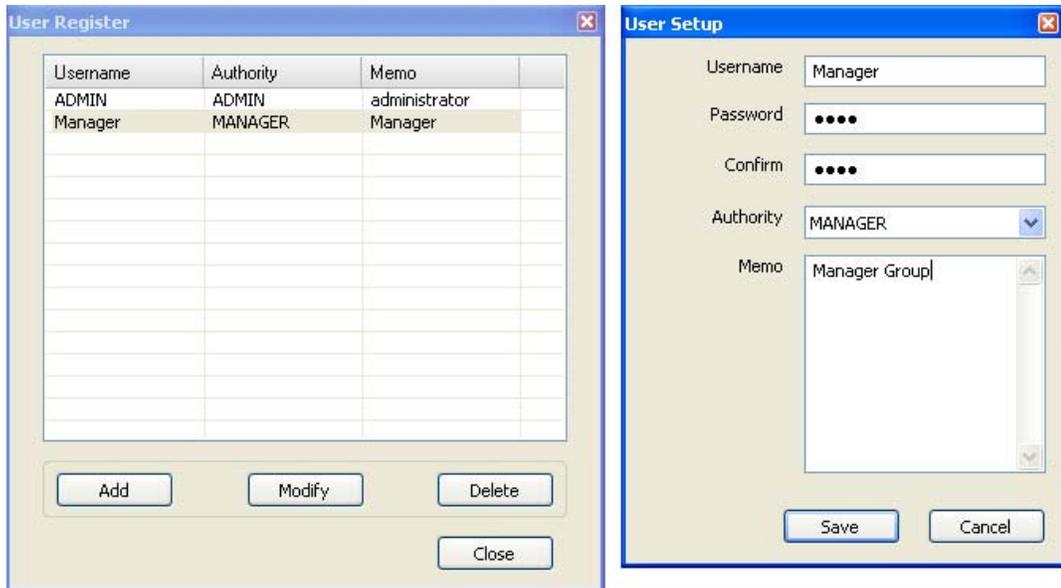
- The 'Company' selection tab:
  - DRxN group – DR4N, DR8N, DR16N, DR8NRT, DR16NRT, DR4N-Lite
  - IP CAM - PIXELPRO (VGA), PIXELPRO (720p), PIXELPRO (1080p)
  - DRxH group – DR4H, DR8H, DR16H



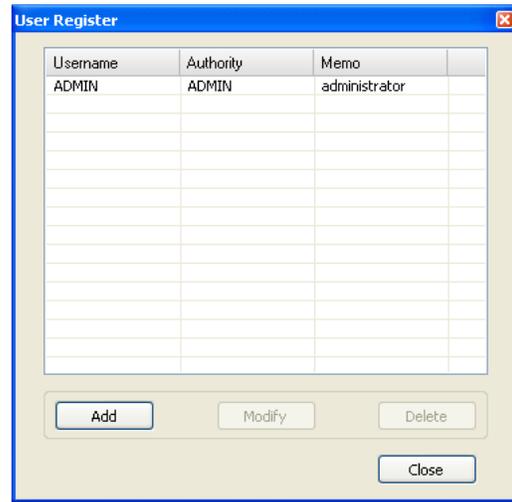
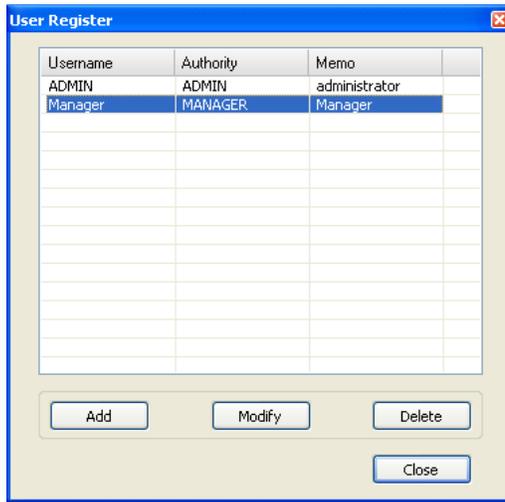
- Click 'Add' and then enter the Username, Password, (and Password Confirmation), Authority (User Group), Memo (Notes).



- Select a name from the list, and click 'Modify' to change any of the contents.



- Select a name from the list, and click 'Delete' to delete a user from the system.

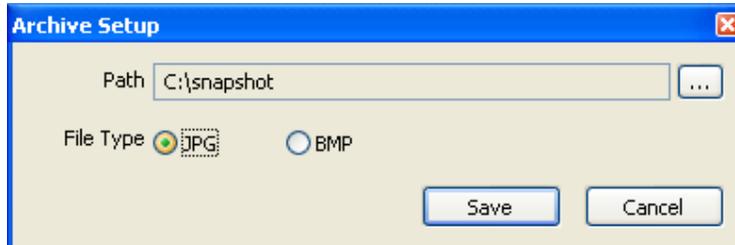






### 2.5.6 Snapshot

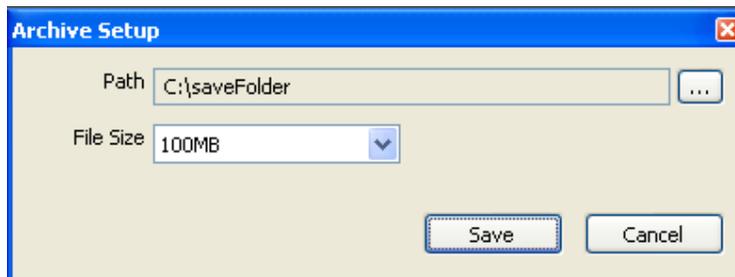
- Configure the settings for saving a Snapshot.
- Path : Select the path for the folder where images will be saved.
- File Type : Select the file format, either BMP or JPG.



### 2.5.7 Archiving

- Configure the settings for Archiving.
- Path : Select the path for the folder where archived video will be saved.
- File Size : Set the Maximum Recording Size for each file.

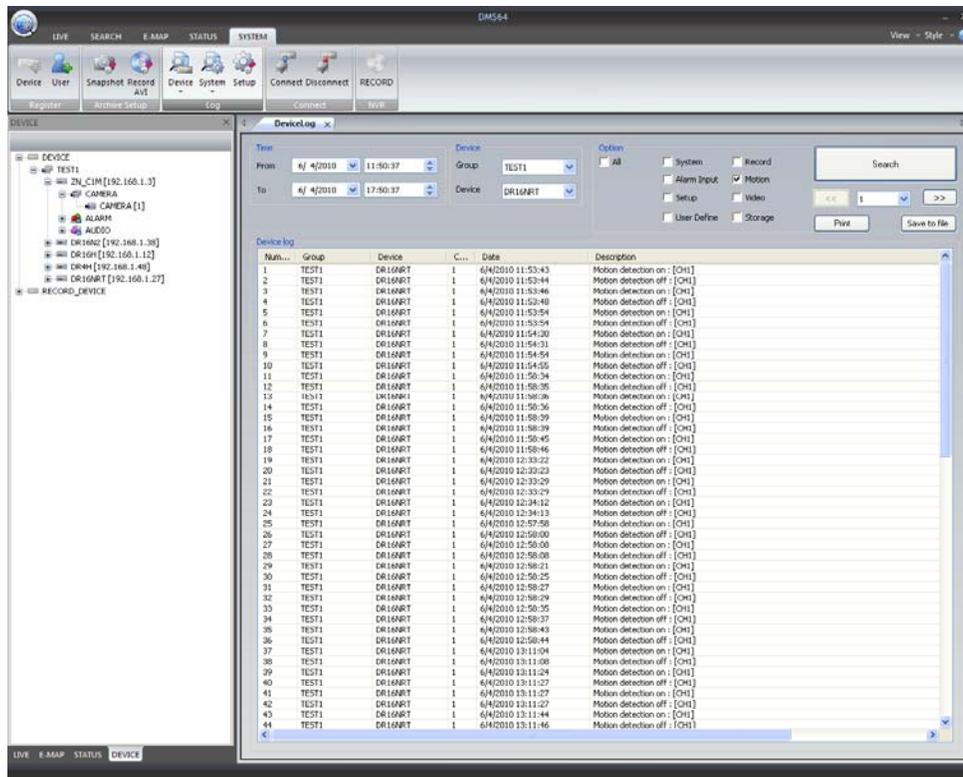
If the amount of selected data exceeds the maximum file size setting, the archive files will be divided into multiple segments, up to the maximum file size.



### 2.5.8 Device Event Log (DVR Event Log)

- This function allows the user to search through the Event Log of the registered device.
- This operation will occur on the Main Monitor, and cannot utilize the Float function..
- Time : Input the range of 'From' and 'To' dates and times which you want to search.
- Device : Select the device which you wish to search.
- Option : Check each of the event filters to refine your search.
- Print : Allows printing of search results.
- Save to File : Allows saving of search results (to a plain text file).

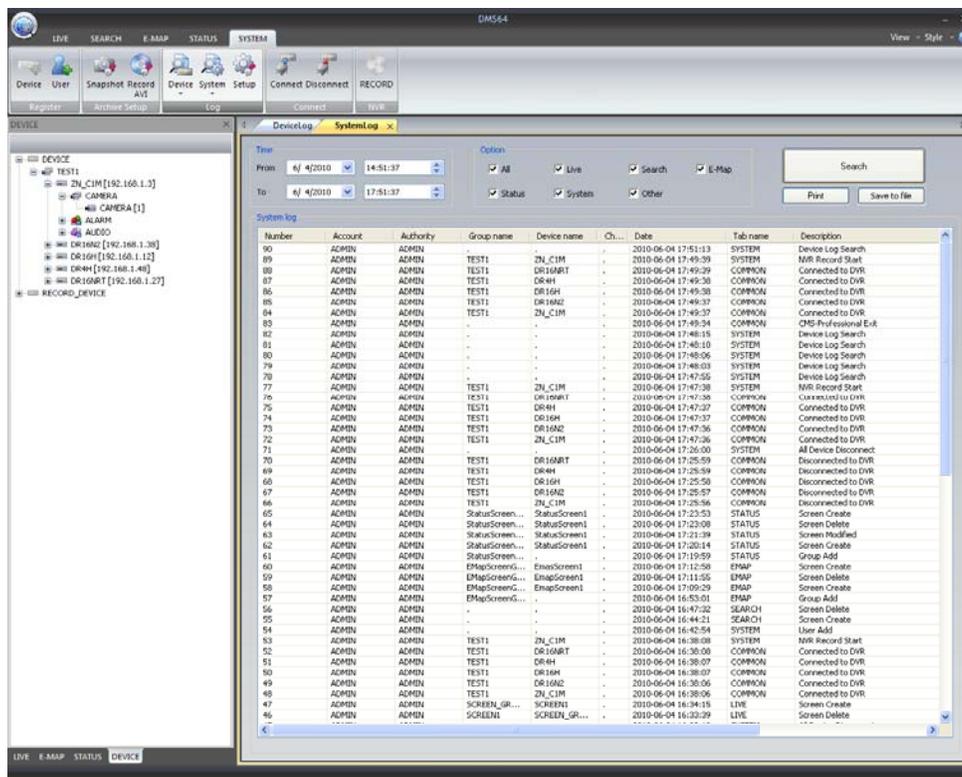
The recording folder will be the same one that is being used for Archiving.



### 2.5.9 System Event Log (DMS Event Log)

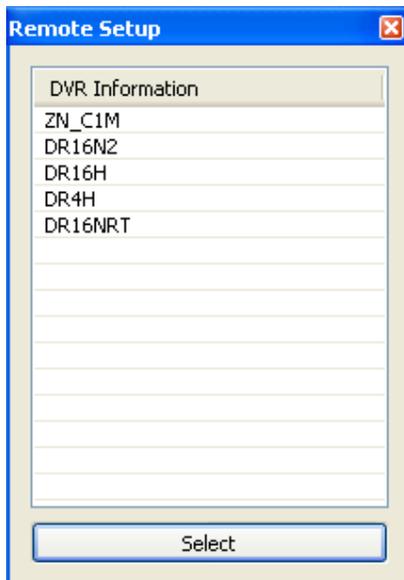
- This function allows the user to search through the Event Log of the DMS Software.
- This operation will occur on the Main Monitor, and cannot utilize the Float function.
- Time : Input the range of 'From' and 'To' dates and times which you want to search.
- Option : Check each of the event filters to refine your search.
- Print : Allows printing of search results..
- Save to File : Allows saving of search results (to a plain text file).

The recording folder will be the same one that is being used for Archiving.



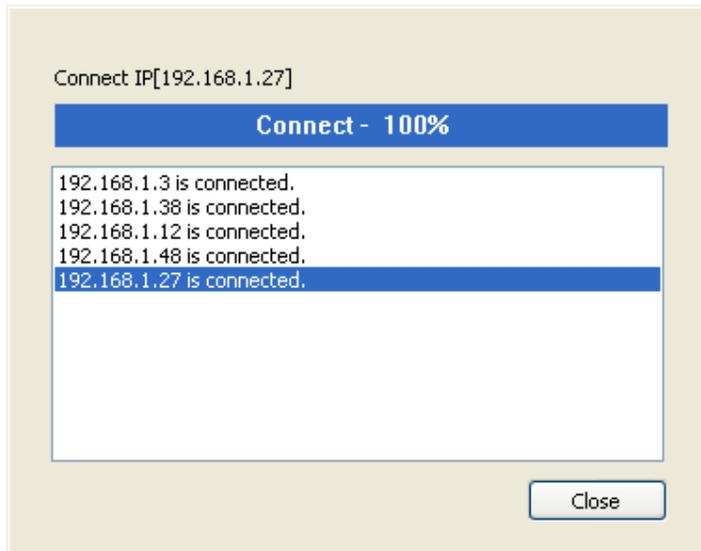
### 2.5.10 Remote Setup

- Allows access to the Remote Setup menu of any connected device.
- You may only open one Remote Setup menu at a time.
- Select a device from the list, and press the Select button to access Remote Setup.



### 2.5.11 Connect

- Shows status of all connections to registered devices (shown on startup).



### 2.5.12 Disconnect

- Shows status while disconnecting from all devices.

