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IEI eMerge™ and Panasonic Digital Disk Recorder

Setup and Integration Guide

Version 3.2 and above

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DVR Features Requirements List

The hardware, software, and licenses required for your IEI eMerge™ digital video recording features are listed below.

In addition to those items it will be necessary for you to have:

- Physical access to the Network Controller and permission to shutdown the security system, and restart it.
- Login username and password to the Network Controller with setup privileges.

Hardware

At this release the DVR feature is tested to work with the following devices:

- **Panasonic Digital Disk Recorder** models WJ-HD309a and WJ-HD316a.
- **IEI eMerge**: Version 3.2 or above.
- **PC with Windows XP Pro SP2** or higher.

Software and Licenses

- **IEI VMS license file**: In new systems this feature is already enabled in the I-button. To enable the Video Management System feature in existing systems upload and apply the file `ibutton.lic` to the Network Controller. Obtain this file from IEI. You will need to provide the iButton Serial Number from the [Support/Utility : About](#) page of the security application.
- **Browser**: An ActiveX compatible browser is required. We have tested with Internet Explorer V6 SP2 or higher.
- The **PanasonicHD300SDK.cab** file that contains the ActiveX control required for eMerge integration. This can be obtained from Panasonic or from Linear Technical Services at (800) 421-1587.

Panasonic DVR and IEI eMerge Integration

1. Complete the Setup of the Panasonic DVR

Refer to the Panasonic documentation for all phases of the installation and setup of the Panasonic DVR, cameras, motion detection, and events. Verify that the Panasonic DVR is functioning correctly on its own before proceeding to the integration steps below.

Panasonic DVR configuration tips for integration with the IEI eMerge

1. We recommend that the Panasonic DVR and the eMerge be on same subnet- otherwise HTTP and FTP ports must be opened through routers/firewalls. The HTTP port also must be opened to the monitoring computer. We strongly recommend that the Network Administrator be involved in this network configuration.
2. Both the Panasonic and the eMerge default to web port 80 for HTTP. If both the eMerge and the Panasonic are behind a NAT router with port forwarding, you will have to change the web port (HTTP) for one of them.

NOTE: To change the web port (HTTP) for the eMerge select **Setup : Site Settings : Network Controller** and click the link for **Initmode Settings**. On the Initmode page change the **Web Server Port** in the **Web Server Settings** section. Click **Save** and then click **Reboot**.

3. Both the Panasonic and eMerge default to port 21 for FTP. Integration with the eMerge does not require that this be changed. However, if you have some other use for FTP, to or from the Panasonic DVR, then consult with the Network Administrator.
4. You must create a user account for the eMerge on the Panasonic DVR. Go to the Panasonic **Advanced Setup Menu** and click **User Registration**.
5. Create a user called "IEIeMerge" with the password "eMerge." Set the eMerge user **Level** to **LV1**, and **Priority** to **1**. This ensures that the eMerge has the necessary permissions and priority to work smoothly with the Panasonic DVR.
6. You can make the eMerge the automatic login user, or you must set **Auto Login** to **OFF**. Go to the Panasonic **Advanced Setup Menu** and click **Basic Setup**.
7. To make the eMerge the auto login user set **Auto Login** to **ON**, and select **IEIeMerge** as the **Auto Login User**.

NOTE: Alternatively you can set **Auto Login** to **OFF**.

8. Turn off Camera Control for non-PTZ cameras. Go to the Panasonic **Advanced Setup Menu** and click **Comm**.
9. In the **Control** column set the drop-down to **OFF** for all non-PTZ cameras. This ensures that PTZ controls will not appear in the eMerge interface for non-PTZ cameras.
10. Recording actions initiated by eMerge events are considered **Manual Recording** by the Panasonic DVR. Therefore, event recordings will be made at the resolution set in the Panasonic for **Manual Recording**.
11. The Panasonic DVR has a maximum of 8 UID logins. Each eMerge camera view takes one UID. Each Panasonic user login takes one UID. The eMerge uses one UID for polling the Panasonic DVR for video motion events. Therefore it is conceivable that one or more cameras could lose their UID login if many users are logged in and/or several multi-camera views are being used.

NOTE: If a camera loses its UID a message is displayed: "HD300 video display limit EXCEEDED!"

2. Point the IEI eMerge to the Panasonic DVR

If needed, put the Cab file with required ActiveX control onto the Panasonic DVR

1. You can get the cab file **PanasonicHD300SDK.cab** from Panasonic, or you can get it from Linear Technical Services at (800) 421-1587.
2. From a computer on the same subnet as the Panasonic HD300 open a command prompt window.
3. Login to the IP address of the HD300 using FTP. (> ftp *ipaddress* [Enter])

NOTE: The default user name is **ADMIN** and the default password is **12345**.

4. Change the directory to **HTML_FILES**. (ftp> cd HTML_FILES [Enter])
5. Set to binary mode. (ftp> bin [Enter])
6. Put the cab file to the HD300A. (ftp> put PanasonicHD300SDK.cab [Enter])
7. Close the FTP session. (ftp> bye [Enter])

Configure the Panasonic DVR in the IEI eMerge

8. In the eMerge Security Application select **Setup : Cameras : Configure Panasonic HD300 DVR**.
9. In the **Panasonic IP Address** text box enter the IP address of the DVR and click **Check Connection**.

NOTE: The **Panasonic HD300 Address** box next to the **Check Connection** button defaults to **001**. This value should be set to **1** if you have one DVR. For multiple DVRs the second DVR must have a **Panasonic HD300 Address** of **2**. A third DVR must have an address of **3**, etc.

The **Discovered Information** section will automatically fill in.

10. In the **Name** field enter a name for this DVR.
11. The **Panasonic HD300 Port** and **Panasonic HD300 FTP Port** fields default to 80 and 21 respectively. These need not be changed unless the network administrator specifies other port numbers. These port issues are also discussed on the previous page in steps 1, 2, and 3.
12. The **Panasonic HD300 FTP Username** and **Panasonic HD300 FTP Password** fields default to "ADMIN" and "12345" respectively. These need not be changed unless the FTP username and FTP password were changed during the Panasonic setup.
13. The **Panasonic HD300 Username** and **Panasonic HD300 Password** fields default to "IEIeMerge" and "eMerge" respectively.

NOTE: Make sure that this username and password matches exactly the username and password that you established for the eMerge on the Panasonic DVR. These names and passwords are case sensitive.

14. Click **Save**.
15. Click the **List DVR Cameras** link at the bottom of the **Discovered Information** section. A list of cameras appears.
16. Verify that the camera list is correct and complete. These cameras were previously set up during the configuration of the Panasonic DVR through its own web UI.

17. Presets for PTZ cameras can now be set on the eMerge. If you set them up on the eMerge they can be saved back to the cameras.
18. Select **Setup : Cameras : Presets**. Setup the preset positions for each camera and click **Save Presets to Cameras**.
19. Click **Save**.

Configure optional settings

20. **Public IP Address**: This IP address automatically fills in when you save a new DVR configuration.

NOTE: If this address is on another subnet or behind a firewall you may have to change this to the external public address of the router or firewall. The network administrator will have to setup the port translation for communications and video to and from this address.

21. **Public HTTP port**: This port number defaults to 80. This can be changed.

NOTE: The IEI eMerge also defaults to web port 80. If both the eMerge and the Panasonic are behind a NAT router with port forwarding, you will have to change the web port (HTTP) for one of them.

22. **Combine VMD events arriving within seconds**: Video Motion Detection (VMD) events occurring within the specified number of seconds are combined into one network controller event.

Example: If you set this field to 60 seconds, then additional motion detection events will not be reported to the network controller unless at least 60 seconds has passed since the last motion detection on that camera.

23. Click **Save**.

3. Verify Live Video from the IEI eMerge Interface

Verify that you can see Panasonic video from the eMerge interface

1. Select **Monitor : Cameras**.
2. Select a camera connected to the Panasonic system.
3. Verify that you can see live video from this Panasonic connected camera.

NOTE: An ActiveX control is required to see the video. If this is not currently installed on the system you are using you will be prompted to download it.

4. Set up Video Motion Detection on the Panasonic DVR

Verify that the Panasonic Video Motion Detection triggers eMerge events

Ensure that you have configured Video Motion Detection events on the Panasonic DVR.

1. Select **Setup : Alarms : Events** and define an eMerge event.
2. Select **Setup : Alarms : Virtual Inputs** and assign your eMerge event to a Panasonic connected camera **Video Motion Event**. Make sure the **Virtual Input** is either **Always Armed** or using a currently active time specification. Also verify that both the **Virtual Input** and the **Video Motion Event** are **Enabled**.
3. Select **Monitor : Monitoring Desktop** and create motion on that camera.
4. Verify that your eMerge event was triggered.

5. Setup Video Recording Actions from the IEI eMerge

Verify that eMerge events trigger video recording

1. Select **Setup : Alarms : Events** and define an eMerge event with a **Record Video** action. Be sure to select a Panasonic connected camera.
2. Assign a trigger to this record video event. You can select **Setup : Alarms : Inputs** and assign the event to the **Off-normal Event**, or you can select **Setup : Access Control : Portals** and assign the event to the **System-wide : Held** state of a portal.
3. Select **Monitor : Monitoring Desktop** and trigger the event. (Hold the portal open or set the input into an alarm state.)
4. Verify that the event was triggered and click the video icon in the Activity Log to view the recorded video.

Digital Video Recording Troubleshooting

Video from the Panasonic-connected cameras is not viewable

Ensure that the video is viewable in the Panasonic interface.

1. If the Panasonic web page does not come up, you may have a network connectivity problem, or an IP addressing problem.
2. If the Panasonic web page comes up, but no video shows:

Ensure that the camera is connected to the DVR and to an appropriate power source.

If the video is visible from the Panasonic DVR directly, but not through the eMerge interface, then verify the setup on the IEI eMerge.

1. Select **Setup : Cameras : Configure Panasonic HD300 DVR**.
2. Ensure that the **Panasonic HD300 IP Address**, HTTP and FTP port numbers, user names, and passwords are correctly entered.
3. If you are using a firewall or router, ensure that the **Public IP Address** and **Public HTTP Port** are correctly entered. Click **Save**.

Video Motion Detection is not working

- Ensure that Video Motion Detection is enabled for cameras on the Panasonic DVR.
- Ensure that VMD events are created on the DVR by checking the Panasonic user interface.

Video Recording Actions are not working

- Check the eMerge Activity Log to ensure that events are being created.

1. If events are not being created:

Select **Setup : Alarms : Events**.

In the **Events** section at the top ensure that the **Enabled** check box is checked.

In the **Triggers** section at the bottom ensure that the appropriate trigger is listed. If none is listed you must configure a system resource to trigger your event. Events can be triggered by Inputs, Virtual Inputs (Cameras), Temperature Inputs, Alarm Panels, or Portals going into an alarm state.

2. If events are being created but no video is recorded:

Select **Setup : Alarms : Events**.

In the **Actions** section check that there is a **Record Video** action, that the **Enabled** check box is checked, and that the correct camera is selected for that action.

Click **Save**.