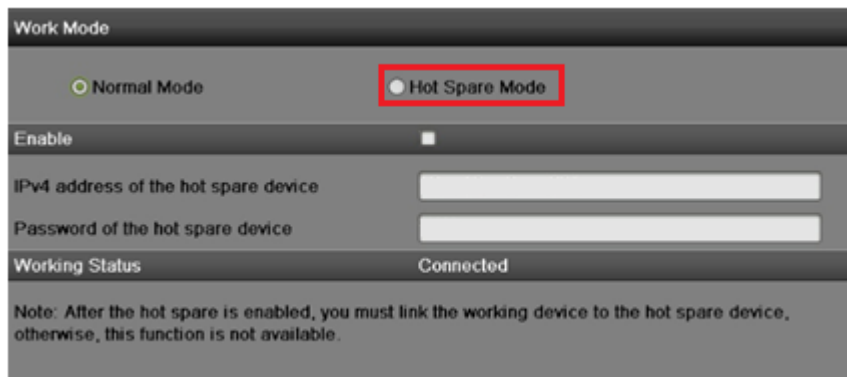# TECHNICAL BULLETIN

To increase the reliability of a multi-NVR system the NVRs have a **HOT SPARE** feature. This feature allows one of the NVR to be used as a backup NVR.

The NVR that is set to a **HOT SPARE** mode stays **IDLE** and does not record any of the cameras. The **HOT SPARE** unit receives heartbeat packages from the **NORMAL** NVRs every 5 seconds. If it does not receive the heartbeat package then the **HOT SPARE** unit adopts the failed NVR's settings and picks up where the failed unit has left off. This feature will only function for unit with same or greater amount of channels. For example a NVR can be a HOT SPARE, but not the other way around.

To set up the **HOT SPARE** feature:

On the Spare unit go to **MENU→SYSTEM CONFIGURATION→HOT SPARE** and change the working mode to **HOT SPARE MODE (Figure 1).** Please note: The default value for this feature is NORMAL MODE.

Figure 1

After changing the working mode the NVR must be restarted.

Next, the **NORMAL** units have to be introduced to the **HOT SPARE** unit (**Figure 2**).
On the **NORMAL** unit go to **MENU→SYSTEM CONFIGURATION→HOT SPARE**
   a. Enable the HOT SSPARE Connection.
   b. Enter the HOT SPARE device's IP address.
   c. Enter the HOT SPARE device's password (Please note: The password is the NVR's password)
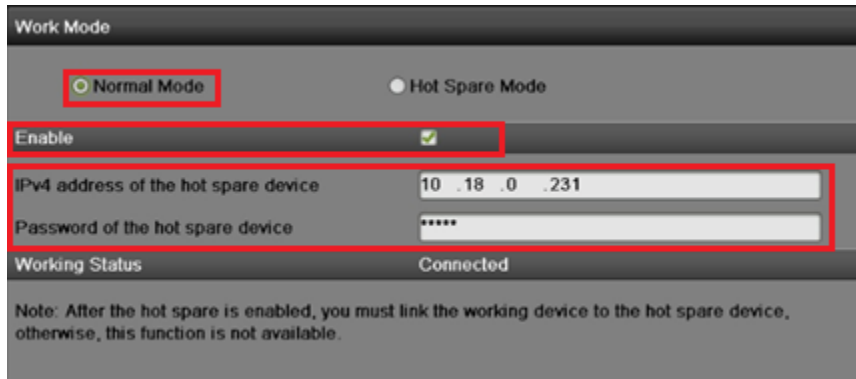
Figure 2

After the **HOT SPARE** unit has been introduced to the **NORMAL** unit, the **NORMAL** in the HOT SPARE settings of the **HOT SPARE** unit. Select the unit and add it to the **WORKING DEVICE LIST** (**Figure 3a and 3b**).
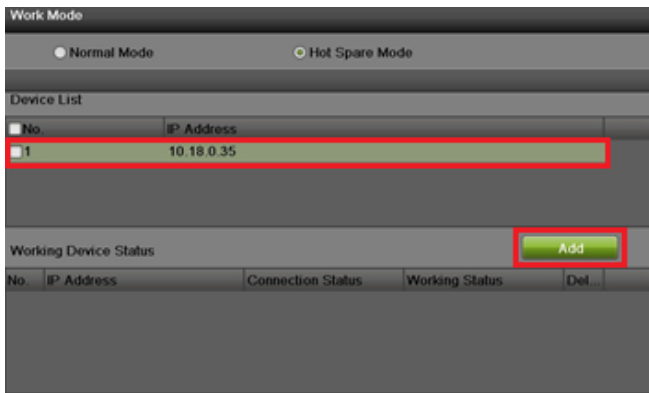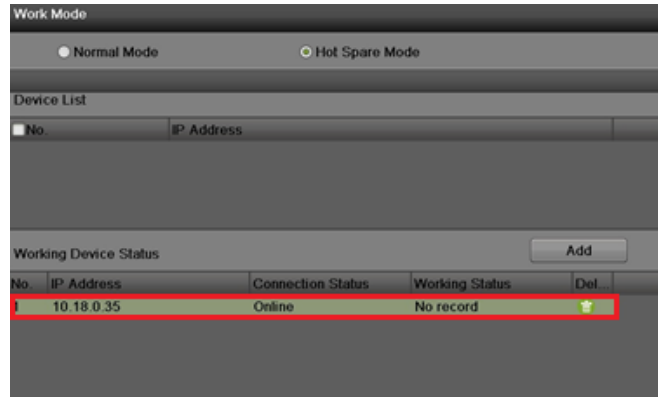

Figure 3a

Figure 3b

The **CONNECTION STATUS** in **Figure 3b** indicates the status of the **NORMAL** device (online or offline). The **WORKING STATUS** indicates the state that the **NORMAL** unit is in and can have one of the following values:

- NO RECORD → The unit is online, but it is not recording
- BACKING UP → The Normal unit is offline and the HOT SPARE unit is recording
- SYNCHRONIZING → The NORMAL unit is back online and the recording is being transmitted   back to the NORMAL unit