



GNR-2000

**Standalone NVR
Product Validation Guide**

Ver. 2011/09/20










Introduction

The Product Validation Guide is designed for the purpose of convenient testing and understanding of main functions of the product, to make sure these functions can be successfully used by the testing engineer of ACTi partner, hence, the product would be confirmed as suitable for the future projects of ACTi partner.

For your convenience, the validation guide is supported by the series of video clips that is a great reference for trying out the functions of the product without any efforts of learning. Finally, there is also a product validation control sheet for your convenience where the results of each tested item can be entered.

Please use the following 7 video clips from www.acti.com website as a reference during the product examination process.

| Video | Link |
|---|--|
|  | Standalone NVR GNR-2000 Demo 1-7: Initial Setup |
|  | Standalone NVR GNR-2000 Demo 2-7: Channel Setup |
|  | Standalone NVR GNR-2000 Demo 3-7: Event Management |
|  | Standalone NVR GNR-2000 Demo 4-7: Playback |
|  | Standalone NVR GNR-2000 Demo 5-7: Audio-in and Audio-out |
|  | Standalone NVR GNR-2000 Demo 6-7: Motion Detection |
|  | Standalone NVR GNR-2000 Demo 7-7: PTZ Control |

Preparation of Equipment

The following equipment is highly recommended for testing:

1. One unit of standalone NVR GNR-2000

Upon successful start-up, the default IP address will be **192.168.0.10**

2. Hard Disks

Have at least one 3.5" hard disk. It is recommended to use any of the following hard disks models: Seagate (ST3250318AS, 250GB); Western Digital (WD1002FBYS-02A6B0, 1TB or WD2002FYPS, 2TB)

3. A computer to work as a remote client of the Standalone NVR

Recommended computer specification:

To manage 1-16 channels: Intel Core 2 Quad 2.66 GHz, 32/64-bit, 4GB RAM;

Please assign that PC an IP address of the same network segment, for example **192.168.0.11** and turn off the anti-virus software in that PC.

4. 2-4 ACTi IP Cameras

Have at least one Megapixel camera among them. The form factor does not matter.

Please connect them to the network one at a time, and change their default IP (192.168.0.100) into something else, for example **192.168.0.99**, **192.168.0.98**, etc.

5. Data Switch

Please refer to the free online [Project Planner](#) for recommended switches. If you are not going to use PoE Switch, then please make sure there is a DC 12V power adapter available for each camera.

6. Network Cables

Cat5 or higher category Ethernet cables with RJ-45 connectors.

REMINDER: Please make sure that you have set up the IP addresses of the cameras and the PC properly before starting the GNR-2000 Product Validation process.

You can validate the correctness of IP addresses of the PC and all the cameras by following method: enter the IP address of the camera to the address bar of Internet Explorer browser of the PC, and if you see the login page of the camera then the IP addresses are valid.

Product Validation Control Sheet of ACTi GNR-2000

Please set up the equipment and aim to replicate the procedures show on the video clips.

The test results are to be filled into the table below by checking either “PASS” or “FAIL”.

| Category | Function to be Tested | Video Reference | PASS | FAIL |
|---------------|--|-----------------------|------|------|
| Initial Setup | Opening HDD tray, inserting a hard disk and closing the tray process is successful. | Clip 1 (0:09-0:26) | | |
| | Locking the HDD tray with the key and removal of the key is successful. Confirm that locked HDD tray cannot be opened without a key. | Clip 1 (0:27-0:35) | | |
| | Successful Power-On process is confirmed by Power LED turning on. | Clip 1 (0:53-1:00) | | |
| | By using IE browser it is possible to access the IP address of the NVR. Upon successful connection, the login page will appear. | Clip 1 (1:14-1:21) | | |
| | In the initial setup wizard it is possible to skip several items that are not urgent at this point, such as date, adding more users or licenses. | Clip 1 (1:21-1:59) | | |
| | RAID options are correctly available or grayed out depending on the number of inserted disks. More information on RAID options vs HDD . | Clip 1 (1:36-1:38) | | |
| | Auto-Search function is able to detect the cameras that you added to the network. | Clip 1 (1:38-1:59) | | |
| Channel Setup | Add more cameras by automatic or manual method. Upon successful adding, you will see live view of the camera right on setup page. | Clip 2 (0:23-1:50) | | |
| | It is possible to change camera settings (compression, frame rate, resolution or bitrate) conveniently via Standalone NVR setup. The changes will take effect at most 20 seconds after pressing “SAVE” as shown on video clip. | Clip 2 (1:50-2:50) | | |

| Category | Function to be Tested | Video Reference | PASS | FAIL |
|--------------------------|---|-----------------------|------|------|
| Channel Setup | Megapixel test: Please change the Megapixel camera's resolution to highest possible, and press "SAVE" (wait 20 sec). After that, go to Live page, single channel view layout, and see the Megapixel resolution live view works properly – no disconnection, no frozen image. | Clip 2 (1:50-2:50) | | |
| Event & Schedule Manager | Confirm that all the newly added channels will have a 24/7 full recording schedule automatically for your convenience. | Clip 3 (0:34-0:50) | | |
| | It is possible to clear the recording schedule (upper schedule area) and add a new recording schedule easily with a mouse, either Full-Time recording or Event recording. | Clip 3 (0:50-1:52) | | |
| | When choosing event recording mode, then it records only when the event is triggered during the event monitoring period (defined by lower schedule area, default 24/7). | Clip 3 (0:50-1:52) | | |
| | Once you have set the event monitoring period in lower schedule area, you can test it by first going to Camera's Web Configurator with IE browser and activating Motion Detection regions there , and then come back to GNR-2000 Setup, Event Manager and activate New Event Handling rule. SAVE settings. Test if the Standalone NVR is able to handle Motion Detection alert properly sent from the camera. | Clip 3 (1:52-3:12) | | |
| | When setting up New Event Handling rule, please also choose Pop-Up window, so that you can test the possibility of using convenient Playback function within the Pop-Up window upon the triggered event. | Clip 3 (1:54-3:37) | | |

| Category | Function to be Tested | Video Reference | PASS | FAIL |
|-------------------|--|-------------------------------|------|------|
| Search & Playback | <p>In Playback tab, drag the cameras from the list into video layout area. If standalone NVR had been previously scheduled to record video, then you should see the time bars of those channels to be filled with color. You can navigate easily forth and back on time bar and press play button anytime. If 2 or more channels have recordings of the same time period then the synchronized playback works automatically when you press Play.</p> | <p>Clip 4 (0:33-0:56)</p> | | |
| | <p>If you have set up any of the events, and these events have been triggered, such as motion detection, you will be able to see the recordings of those events in the time bar with different color.</p> | <p>Clip 4 (1:58-2:16)</p> | | |
| | <p>Please test the Motion Detection event search functions of GNR-2000, too. Upon successful search, the motion detection events will be listed in the event panel on the left side. You can click on those listed items to conveniently start synchronized playback of the time when the event was triggered.</p> | <p>Clip 4 (2:16-3:20)</p> | | |
| Video Export | <p>While being in Playback mode, mark the start and end time for video export, and proceed with exporting AVI file into the remote PC.</p> | <p>Clip 4 (3:20-4:50)</p> | | |

| Category | Function to be Tested | Video Reference | PASS | FAIL |
|-----------|--|-----------------------|------|------|
| Audio-in | To test Audio-in, you need at least one camera with the microphone (for example ACTi cube camera), and have the microphone enabled and sensitivity high in camera’s Web Configurator. If you want to apply microphone to “line-in” supported camera, then please first refer to this instruction . Once the camera side has been set up properly, go to Standalone NVR live view page, drag the audio-in supported camera into video layout, right click on the video and choose “Audio In”. You will be able to hear the sound from the camera. Please also make sure that the Speakers of the PC are connected properly and the volume is high enough. | Clip 5 (0:05-1:19) | | |
| | Similarly as above, please test if you are able to hear the sound from the camera when using Playback. | Clip 5 (0:05-1:19) | | |
| | Similarly as above, please test if you are able to hear the sound in the AVI file that you exported while being on Playback page. | Clip 5 (0:05-1:19) | | |
| Audio-out | To test the possibility to talk from the control center to the room where the camera is, please connect speakers to audio-out of the camera, and make sure the PC you are using has a properly working microphone. Right click on that channel in live view and pick “Audio Out”. Are you able to hear the sound from the speakers of the camera when talking into the microphone of the PC? | Clip 5 (1:23-2:15) | | |

| Category | Function to be Tested | Video Reference | PASS | FAIL |
|---------------------------|--|-----------------------|------|------|
| Digital PTZ | Digital PTZ function works for any IP camera. By marking a rectangle on the video as the region of interest (equals to digital Zoom), you will see Picture-in-Picture mode for convenient digital Panning and Tilting. Drag the rectangle as you like. This method also works for Playback mode. | Clip 7 (0:05-0:36) | | |
| Optical PTZ | If you do not have any PTZ cameras, you may skip this test. Right click on the live video of the PTZ camera and select "optical PTZ". If you have a PTZ camera (for example ACM-8511) then you can test the mouse PTZ, control button based PTZ or even joystick PTZ if you like. | Clip 7 (0:36-1:57) | | |
| PTZ Preset Points & Tours | If you do not have any PTZ cameras, you may skip this test. Please test preset points and tours according to the example on demo video. | Clip 7 (2:00-4:49) | | |

Overall Conclusion from the Product Validation

Based on the Product Validation results and overall experience, the functionality, performance and user-friendliness meet the requirements and standard of the organization that conducted the test.

YES

NO

Testing organization: _____

Country: _____ Date: _____

Useful References

Datasheet and Manual:

[Datasheet, Quick Installation Guide and User Manual](#)

Knowledge Base Articles:

[RAID Storage System of Standalone NVR](#)

Video Clips:

[9 Reasons to Choose ACTi Standalone NVR](#)

Your Feedback

ACTi warmly welcomes you to share your test results with us, so that we can continue designing our products to be even more user friendly and functional. Also, it would give an opportunity to our technical support engineer who has been assigned to assist you to go through the steps that are unclear and need further explanations.

Please also give your feedback on the test report format as well; whether the number of tested items and the method was sufficient to cover your questions and requirements.

Please send your test report together with your feedback to sales@acti.com

Thank you!

ACTi Corporation