**Genie A&E Specification**

WNVR416P5AI

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Description automatically generated with medium confidence

**Edit as required** – this document can be edited and merged where appropriate with other Genie specifier documents for a complete/bespoke solution.

1. **General**
2. This product shall be manufactured by a company whose quality system complies with ISO-9001.
3. All systems and components shall have been thoroughly tested and proven in actual use.
4. All systems and components shall be provided with comprehensive repair and spare replacement parts.
5. All systems and components must be in compliance with FCC, CE and UKCA requirements.
6. All materials supplied under this item shall be compliant with 802.3 Ethernet standards.
7. **Embedded Network Video Recorder**
8. The network video recorder (NVR) shall be a high-quality recorder capable of recording as many as 16 IP cameras at no less than 4CIF. The recording resolution shall be up to 8MP on each channel simultaneously.
9. The NVR shall support 1x HDMI and 1x VGA output. HDMI is simultaneous with VGA and support output up to 4K (3840 x 2160) resolution for HDMI and 1920 x 1080p for VGA.
10. The NVR shall offer 4K synchronous playback, and support image capture and instant playback.
11. The NVR shall be able to bookmark video clips, and offer search and playback by bookmarks, image search and event search, live view, and playback and provide fast switching between views.
12. The NVR shall operate with third-party network cameras fully compliant to ONVIF specifications.
13. The NVR shall include support for 4x 10TB and above HDD installation.
14. The NVR shall be compatible with AutoNAT DDNS, and support remote monitoring on Immix and Sentinel (Monitor) platforms.
15. The NVR shall support NTP (Network Time Protocol) and IP Manager search utility.
16. The NVR shall have advanced motion detection and analytics, including a minimum of:

* Face picture database
* Computing capability
* Face picture search
* Database management
* Face picture adding
* External face picture enrolment
* Face picture comparison
* Face track
* Map of face track
* Statistic graph of face information
* Statistic mode of face information

1. The NVR shall support multi-user level management with password protection and secure dynamic password reset capability.
2. The NVR will have the ability to be rack mounted.
3. The NVR shall be capable of a full exportable system log that includes user operation, alarm logging/triggering and system condition.
4. The NVR shall support 4K recording on every channel of the recorder simultaneously.
5. The NVR shall support recording, playback and backup of fisheye dewarping.
6. The NVR shall support live viewing and backup from NVMS2 client software, HTML5 and ActiveX web browsers for all channels in one screen.
7. The NVR shall support live adaption and be able to record mainstream, sub streams and third stream as the recording streams simultaneously to speed up remote playback.
8. The NVR shall be able to support up to 16 split-screen live view on connected monitor, and support drag and drop directly to the live view window to automatically adjust displayed camera order.
9. The NVR shall be able to provide a snapshot icon for manual capture during live view and playback.
10. The NVR shall be able to fast forward playback footage at 16x speed.
11. The NVR shall be able to export and import the system configuration that includes connected IPC devices for easy deployment and management.
12. The NVR shall adopt N9000 Linux based operating system to ensure high stability and security.
    1. **Network Video Recorder Specifications**
    2. **General**
13. Power Supply: ATX, 300W
14. Consumption: <30W (Without HDD and PoE power supply)
15. Operating System: Embedded Linux
16. Recording Resolution: 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 1280×1024 / 960p/

720p / 960H / D1 / CIF

* 1. **Video/Audio Input**

1. Video Input: Up to 16CH IPC, full ONVIF compliant inputs
2. Audio Input: Up to 16CH IPC audio input
   * 1. **Video/Audio Output**
3. HDMI Output Resolution: HDMI: 3840×2160 @ 60fps / 3840×2160 @ 30fps /

1920×1080 / 1280x1024 / 1024x768

1. VGA Output Resolution: VGA: 1920x1080 / 1280x1024/1024x768
2. Playback Resolution: Live View / Playback: 1CH 8MP / 4CH 1080p
3. Audio Output: RCA x1 Two-way audio and local output
4. Dual Stream: Support
5. Synchronous 16CH, up to 4K

Playback:

* + 1. **Storage and Backup**

1. SATA: 4x SATA HDD’s up to 8TB for each disk
2. Local Backup: U disk, USB mobile HDD
3. Network Backup: Yes
   * 1. **External Interface**
4. Network Interface: RJ45 1000 Mbps x1
5. Network Bandwidth: 160Mbps incoming bandwidth
6. Serial Interfaces: RS485 (Full-duplex), connect to PTZ or keyboard
7. USB Interface: USB 2.0 x1, USB 3.0 x 1
8. Alarm Input: 8CH
9. Alarm Output: 4CH
   * 1. **Physical Specifications**
10. Dimension (W x H x D): 440 x 70 x 390 mm
11. Rack Mountable: Yes
    * 1. **Environmental**
12. Working Temperature: -10°C~50°C
13. Working Humidity: 10%~90%
14. **Other Functions**
15. Plate Recognition: Yes
16. Fisheye: Supports fisheye dewarping via Web Client and mobile App
17. **Licensing and Support Agreements**
18. Recorder shall require no licensing fees per channel or device, for basic software.
19. Recorder shall require no software support agreements with the manufacturer.
20. Free AutoNAT DDNS Service
21. **Models**
22. WNVR416P5AI, Network Video Recorder
    1. **Warranty**
23. 3 years, parts and factory labour inclusive.