



pStor V1.7 Specification

Introduction

pStor is a windows-based NVR software. It provides video recording and picture storage features. It is possible to work with IPSAN, FCSAN and NAS systems.

Key Components

Video Storage and Playback server.

Picture Storage.

SAN, NAS support.

OS Requirements

OS Requirements	Microsoft® Windows 7 Standard/Enterprise (64-bit) Microsoft® Windows 8.1 Standard/Enterprise (64-bit) Microsoft® Windows 10 Standard/Enterprise (64-bit) Microsoft® Windows Server 2008 R2 (64-bit) Microsoft® Windows Server 2012 R2 (64-bit) Microsoft® Windows Server 2016 (64-bit)
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Hardware Requirements

Configurations		
Feature	Low-End	High-End
CPU	E3-1220 V5 (4-Core, 3.0 GHz)	E5-2620 V4 (8-Core, 2.1 GHz)
RAM	16 GB	16 GB
NIC	1 GbE x 2 Network Interface Card	1 GbE x 4 Network Interface Card
HDD Type	SATA 7200 RPM Enterprise Class Hard Drives	SATA 7200 RPM Enterprise Class Hard Drives
HDD Capacity	512GB for pStor system installation 2 or more physical drives for recording ¹	512GB for pStor system installation 2 or more standalone drives for recording ¹
Video Maximum Performance ²		
2Mbps videos	220 channels recording 32 channels playback	340 channels recording 64 channels playback
4Mbps videos	110 channels recording 16 channels playback	170 channels recording 32 channels playback
Picture Maximum Performance ²		

300KB pictures	120 pictures per second writing to HDD. 100 pictures per second downloading from clients.
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Note :

- 1: The recording drives **MUST NOT** be the same with the system installation drive.
- 2: The Maximum Performance are tested under local storage drive. If you are using the SAN/NAS solution, this performance depends on the data transfer rate of the SAN/NAS system.
- 3: Single pStor can support 200TB.(Recommended less than 3 sets, maximum 600TB for total)
- 4: The capacity of largest storage space (single folder) attached on pStor should be less than 16TB.
- 5: In order to guarantee the performance and safety for data storage, the capacity for single resource pool is recommend that Not less than 40GB.
- 6: It is not suggesting to install the Antivirus program together with pStor. If necessary, it needs to add pStor into trusted software list while the antivirus program may still affect pStor performance.

Functionality

● Video features

- Video Recording
- Event Recording
- Video Search
- Video Playback
- Thumbnail Pictures
- Video Cover
- Video Download
- Retrieve Backup Video from Devices
- Smart VCA Search
- Smart Event Search
- ANR
- Recycle videos by date
- Recycle videos by hard drive capability
- Central Storage Protocol Support Video Upload/Download, Playback, Lock&Unlock, Thumbnails
- Video frame analysis
- Video Frame Extraction Storage (* Enabling this function will slightly affect performance)
- **Transmission history video clips by ISUP 5.0 protocol**

● Picture features

- Picture Storage
- Picture Download
- Picture Compress
- Picture Cropping
- Picture Encryption

- Recycle pictures by date
- Recycle pictures by hard drive capability
- **System Management**
 - Resource Pool Control
 - NTP Time synchronization(by pStor or by HCP)
 - Transfer Data Encryption
 - Authority Management
 - Database Backup and Recovery
 - SAN/NAS Support
- **Time**
 - DST support
 - Multiple time zone support
 - Support to configure time zone and DST by pStor SDK
- **License management:**
 - Online or offline activation
 - Online or offline update
 - Online or offline deactivation
- **System operation and maintenance**
 - System Services status monitor
 - Resources and Storage size monitor
 - Show Recording Schedules
 - Auto check recording data integrity
 - Exception Monitoring
 - Multi-language: English, Simplified Chinese (Other language support template import).
 - Multi-network domain access
 - Multi NIC configuration adaption



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