Smart Professional Surveillance System
Version 2.02

System Overview
SmartPSS is an all-in-one, full-featured video surveillance application that is ideal for the small to mid-size business that needs to monitor people, premises, and assets. SmartPSS integrates all Dahua network cameras and storage devices into one intuitive, easy to use interface. The software provides efficient device management, video monitoring and playback, alarm and analytic configuration, as well as video wall setup and preview.

Key Functions
Configuration
SmartPSS makes it easy to add devices to the management interface. The application offers device search and batch add functionality to quickly add devices on a network. Once added, SmartPSS provides an interface to configure the network parameters, camera video and audio settings, and live and playback display options.

Smart Track
SmartPSS offers the ability to link a fisheye camera or a fixed camera to a PTZ Dome camera for enhanced surveillance operation. The software allows an operator to define a rule (tripwire, zone, loitering, etc.) in the panoramic fisheye or fixed-camera scene that triggers the linked PTZ dome to move to the position of the alarm and to track the object.

Fisheye Camera Support
SmartPSS features full support for Dahua Fisheye cameras. The software supports options for the Fisheye camera installation and eight (8) dewarp modes. Dewarping solves the problem of distortion in the circular panoramic view in both live or playback modes.

Access and Video Intercom Control
SmartPSS supports configuration and management of access, video intercom, and time and attendance devices directly from the user interface. SmartPSS allows a user to manage users and permissions for access control, supports two-way talk with video intercom devices, and supports attendance management, shift scheduling, reporting for multiple time and attendance devices.

Smart Search
Smart Search allows an operator to specify a region in the playback video to search for a motion detection event, saving time and manpower.

Intelligent Video System (IVS)
SmartPSS displays the real-time IVS features built-in to Dahua network cameras. IVS is an analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. In addition to scene analytics, SmartPSS supports face detection technology that identifies human faces in digital images and then searches a database to identify the individual in the image.

Intelligent Business Analysis
SmartPSS also supports people counting and heat map; advanced features that add business intelligence to your security system. Intelligent Analysis tracks and stores daily, weekly, monthly, and yearly people flow through a defined scene and stores the data. SmartPSS retrieves this data and supports searching, displaying, and storing the data.

Video Wall
SmartPSS offers settings to configure all aspects of a video wall application. The application supports video wall layout, live preview, scheme configuration, and tour setup. In addition, the application supports video wall splicing and roaming.

Multi-language On-screen Display
The OSD menu provides supports 34 languages and allows multiple image adjustments and function settings to meet the requirements of different monitoring scenes.
## Technical Specification

### Installation Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating System</strong></td>
<td>Windows 7 or Higher</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>Intel Core i3 or Higher</td>
</tr>
<tr>
<td><strong>Video Display Card</strong></td>
<td>Intel HD Graphics or Better</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>2 GB, minimum</td>
</tr>
<tr>
<td><strong>Monitor Resolution</strong></td>
<td>1024 x 768, minimum</td>
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<tr>
<td><strong>Language Support</strong></td>
<td>Albanian, Arabic, Brazil Portuguese, Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hebrew, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese</td>
</tr>
</tbody>
</table>

### Device Support

#### Supported Devices

- Network Camera (fixed and PTZ)
- HDCVI DVR
- NVR
- NVS
- Video Wall Controller
- NKB
- ASC and ASM (Access Control)
- VTQ, VTH, and VSC (Video Intercom)
- ASA (Time and Attendance)

#### Maximum Devices

- 64

#### Maximum Management Channels

- 256

#### Maximum Users

- 50

#### Video Compression

- H.265, H.264, MPEG-4, JPEG, SVAC

### Live View

#### Video Display Split

- Windows: 1/4/6/8/9/16/25/36/64
- Mac: 1/4/6/8/9/16/25/36 or customized split

#### Maximum Preview Screens

- Four (4)

#### Maximum Views

- 256

#### Display Resolution

- up to 4000 x 3000

#### Features

- Snapshot, E-PTZ, Audio, Record, Talk, Instant Playback, Tour Task, View, Fisheye Dewarp, IVS, Stream Control, Optional Video Scale

#### PTZ

- Control PTZ Cameras with Mouse or Interface Configure Presets and Tours

### Playback

#### Maximum Channels

- 36

#### Maximum Export Tasks

- Ten (10)

#### Features

- Snapshot, E-PTZ, Audio, Speed (1/8x to 8x) Synchronized Playback, POS, Fisheye Dewarp, IVS, Faster/Slower Play, Optional Video Scale

### Access Control

#### Maximum Channels

- Controllers (ASC Series): 64
- Time and Attendance (ASA Series): 10

#### Maximum User

- 10,000

#### Maximum Number of Event Logs

- 100,000

### Video Intercom

#### Maximum Channels

- Call Station (VTO Series): 64
- Monitors (VTH Series): 256
- VTS Series: 8

#### Maximum User

- 10,000

### Functionality

#### Devices

- Add single or multiple devices via AutoSearch
- Configure and operate devices

#### Live View

- View live video
- Record to a local device
- Configure and control device
- Configure device IVS features
- Create E-Map

#### Tour and Task

- Configure a tour of network cameras

#### Playback

- View video from a local or external storage device
- Export video

#### Log Search

- Search client and device logs

#### Device Configuration

- Update device firmware
- Configure camera, network, PTZ, and storage settings

#### Event Configuration

- Configure channel events (video loss, tampering, motion detection), IVS (tripwire, intrusion, scene switch, abandoned object, missing object, face detection), and device events (no disk, disk fault, disk full, and unauthorized access)

#### Video Wall

- Set video wall layout, live preview, schemes and tours, and playback

#### People Counting

- Retrieve data from enabled devices
- Search data using various criteria
- Display data as a line or bar chart

#### Heat Map

- Displays high/low population densities from enables devices
- Search and backup data

#### PC-NVR

- Configure PC-NVR software
- Manage disk space and channel settings
- Set Intelligent recording plan

#### Access Control

- User Management
- Permission Functionality
- Rules Configuration
- Event Configuration
- Log Review

#### Video Intercom

- Live View
- Two-way Talk
- Send Announcement
- Device Configuration

#### Time and Attendance

- Attendance Setting
- Shift Scheduling
- Attendance Reporting

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