



DSS Products Comparison between DSS Express and DSS Professional



V8.0.4

ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

0 Basic Information

| Product Model | Version | Firmware |
|------------------|---------|---|
| DSS Express | V8.0.4 | General_DSS-Express_win32_IS_V8.000.0000004.0.R.20211104.exe |
| DSS Professional | V8.0.4 | General_DSS-Professional_Win64_IS_V8.000.0000004.0.R.20211104.exe |

1 System Deployment

| Contents | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|------------------------------|----------------------------|-------------------------------|---------------------|
| OS | Windows | Windows | Windows |
| Form | Software | Software | Software |
| Type of Deployment | Single-server | Single-server | Distribute; Cascade |
| Hot Standby | x | x | √ |
| Distribute | x | x | √ |
| N+M | x | x | √ |
| Cascade As Superior Level | x | x | √ |
| Cascade As Subordinate Level | x | √ | √ |

2 Performance

| Contents | | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|-------------------------------|------------------------------------|------------------------------------|-------------------------------------|--|
| Performance | | | | |
| Role&User | Roles | 20 | 20 | 100 |
| | Users | 10 online users and 50 total users | 10 online users and 50 total users | 200 online users and 2,500 total users |
| | DSS Agile VDP User | x | 50 online users and 500 total users | 500 online users and 5,000 total users |
| Recording Plan and Event Plan | Central Recording | Up to 64 video channels | Up to 256 video channels | Up to 3,000 video channels |
| | Event Rules | Up to 256 event sources | Up to 256 event sources | Up to 3,000 event sources |
| Map | Hierarchies | 8 | 8 | 8 |
| | Maximum Size of Raster Map | 15MB | 15MB | 15MB |
| | Number of Raster Maps | Up to 32 | Up to 32 | Up to 256 |
| | Number of Resources on GIS Map | x | x | Up to 300 |
| | Number of Resources per Raster Map | Up to 300 | Up to 300 | Up to 300 |
| Face and Vehicle Watch Lists | Face Watch Lists | 50 | 50 | 50 |
| | Total Faces | 5,000 | 5,000 | 300,000 |
| | Faces per Face Watch List | 5,000 | 5,000 | 50,000 |
| | Vehicle Watch Lists | 8 | 8 | 32 |

2 Performance

| Contents | | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|--|--------------------------------|-------------------------------|----------------------------------|------------------|
| Intelligent Analysis | People Counting Groups | x | 4 | 30 |
| | People Counting Rules | x | 20 | 20 |
| Entrance and Exit | Vehicles | x | 5,000 | 50,000 |
| | Vehicle Groups | x | 8 | 32 |
| | Parking Lots | x | 1 | 16 |
| | Number of Entrances and Exites | x | 4 | 60 |
| Personnel and Vehicle Management | Persons | 5,000 | 5,000 | 300,000 |
| | Cards | x | 10,000 | 600,000 |
| | Faces | x | 5,000 | 300,000 |
| | Fingerprints | x | 10,000 | 600,000 |
| | Vehicles | 5,000 | 5,000 | 50,000 |
| Synthesis | Bridges | x | x | 5 Bridges |
| | Incoming Trigger Event | x | x | 100 |
| | Incoming Trigger Source | x | x | 500 |

2 Performance

| Contents | | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional | |
|--------------|-----------------------------|-------------------------------|----------------------------------|------------------|------------|
| Data Storage | Event Records | 2,000,000 | 2,000,000 | 20,000,000 | |
| | Face Recognition Records | 2,000,000 | 2,000,000 | 20,000,000 | |
| | ANPR Records | 2,000,000 | 2,000,000 | 5,000,000 | |
| | Metadata Records | 2,000,000 | 2,000,000 | 5,000,000 | |
| | Access Control Records | x | 2,000,000 | 5,000,000 | |
| | Video Intercom Records | x | 2,000,000 | 5,000,000 | |
| | Visitor Records | x | 2,000,000 | 5,000,000 | |
| | Entrance Records | x | 2,000,000 | 5,000,000 | |
| | Exit Records | x | 2,000,000 | 5,000,000 | |
| | Attendance Records | x | x | 5,000,000 | |
| | Historical Count Records | x | 2,000,000 | 5,000,000 | |
| | In Area Statistical Records | x | 2,000,000 | 5,000,000 | |
| | Heat Map Records | x | 2,000,000 | 5,000,000 | |
| | MPT Records | x | x | 5,000,000 | |
| | Operator Logs | 2,000,000 | 2,000,000 | 5,000,000 | |
| | Service Logs | 2,000,000 | 2,000,000 | 5,000,000 | |
| | Independent Data Deployment | | | | |
| | | Event Records | x | x | 30,000,000 |
| | | Face Recognition Records | x | x | 30,000,000 |
| | | ANPR Records | x | x | 30,000,000 |
| | Video Metadata Records | x | x | 30,000,000 | |

2 Performance

| Contents | | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|----------------------------|-----------------------------|-------------------------------|----------------------------------|--------------------------------|
| Single Server | | | | |
| Total Devices | Devices | 64 devices | 512 devices | 2,000 devices |
| | Auto-Registered Devices | 32 devices | 32 devices | 1,000 devices |
| Video Devices and Channels | Video Devices and Channels | 64 devices; 64 channels | 256 devices; 256 channels | 1,000 devices; 2,000 channels |
| | P2P Devices | 32 | 32 | 32 |
| | Add devices by ONVIF | 8 devices; 8 channels | 256 devices; 256 channels | 1,000 devices; 2,000 channels |
| | ANPR Channels | 8 (0 channels for entrance) | 8 (4 channels for entrance) | 500 (60 channels for entrance) |
| | Face Recognition Channels | 8 devices; 8 channels | 8 devices; 8 channels | 100 devices; 500 channels |
| | Video Metadata Channels | 8 devices; 8 channels | 8 devices; 8 channels | 500 channels |
| | MPT Devices | x | x | 100 devices |
| | EEC Devices | x | x | 64 devices |
| Security Screening Devices | Security Screening Machine | x | x | 20 |
| | Walk-through Metal Detector | x | x | 60 |
| Intelligent Analysis | People Counting Channels | x | 16 channels | 100 channels |
| | Heat Map Channels | x | 16 channels | 100 channels |
| Others | Access Control | x | 64 devices; 64 doors | 500 devices; 1,000 doors |
| | Video Intercom | x | 256 devices | 2,000 devices |
| | Alarm Controller | x | 16 devices | 100 devices |
| | POS Channels | x | x | 100 |

2 Performance

| Contents | | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|----------------------------------|---|-------------------------------|----------------------------------|---|
| Single Server | | | | |
| Media Transmission Server | Video Input per Server | 200Mbps | 200Mbps | 600Mbps |
| | Video Output per Server | 200Mbps | 200Mbps | 600Mbps |
| Playback, Storage and Download | Storage Bandwidth per Server | 100Mbps | 100Mbps | 600Mbps |
| | Maximum Capacity per Storage Server(Local) | 7 Days | 2TB | 200TB |
| | Maximum Capacity per Storage Server(IPSAN) | x | x | |
| Picture | Picture Bandwidth *Including event/alarm pictures, face pictures, and vehicle pictures | 50 Mbps | 50 Mbps | 200 Mbps |
| Event | Storage of Events or Alarms without Pictures | 60 per second | 60 per second | 300 per second |
| | Access Control Events | x | 60 per second | 300 per second |
| Multiple Servers | | | | |
| Number of sub servers per system | Sub Server | x | x | 10 |
| Total Devices | Devices | x | x | 20,000 devices |
| | Auto-Registered Devices | x | x | 10,000 devices |
| Video Devices and Channels | Video Devices and Channels | x | x | 10,000 devices; 20,000 channels |
| | P2P Devices | x | x | 32 |
| | ANPR Channels | x | x | 5,000 channels (60 channels for entrance) |

2 Performance

| Contents | | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|----------------------------|---|-------------------------------|----------------------------------|-------------------------------|
| Multiple Servers | | | | |
| Intelligent Analysis | People Counting Channels | x | x | 300 channels |
| | Heat Map Channels | x | x | 300 channels |
| Video Devices and Channels | Face Recognition Channels | x | x | 1,000 devices; 5,000 channels |
| | Video Metadata Channels | x | x | 5,000 channels |
| | MPT Devices | x | x | 300 devices |
| | EEC Devices | x | x | 64 devices |
| Security Screening Devices | Security Screening Machine | x | x | 200 |
| | Walk-through Metal Detector | x | x | 600 |
| Others | Access Control | x | x | 1,500 devices; 3,000 doors |
| | Video Intercom | x | x | 2,000 devices |
| | Alarm Controller | x | x | 500 devices |
| | POS Channels | x | x | 300 |
| Picture | Picture Bandwidth *Including event/alarm pictures, face pictures, and vehicle pictures | x | x | 2,000 Mbps |
| Event | Storage of Events or Alarms without Pictures | x | x | 600 per second |
| | Access Control Events | x | x | 600 per second |

3 Function

| Classification | Function | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|-----------------|---------------------------------------|-------------------------------|----------------------------------|------------------|
| Access Protocol | Onvif Protocol | √ | √ | √ |
| | Dahua Private Protocol | √ | √ | √ |
| Adding Mode | IP Address | √ | √ | √ |
| | Domin Name | √ | √ | √ |
| | Auto Register | √ | √ | √ |
| | Discover Device | √ | √ | √ |
| | Import Devices | √ | √ | √ |
| Storage | NetDisk | × | × | √ |
| | Server Disk | √ | √ | √ |
| | Disk Group | × | × | √ |
| User Management | Domin User | × | × | √ |
| | Forced password change at first login | √ | √ | √ |
| | Change Password Regularly | √ | √ | √ |
| | Bind MAC Address | √ | √ | √ |
| Record Plan | Center Recording Storage Duration | × | √ | √ |
| | Retrieval Plan | × | × | √ |

3 Function

| Classification | Function | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|--------------------|-------------------------------------|-------------------------------|----------------------------------|------------------|
| Backup and Restore | Manual Backup | √ | √ | √ |
| | Auto Backup | √ | √ | √ |
| Event | Link Video | √ | √ | √ |
| | Trigger Snapshot | √ | √ | √ |
| | Link PTZ | √ | √ | √ |
| | Link Alarm Out | √ | √ | √ |
| | Link A&C | × | √ | √ |
| | Link Video Wall | × | √ | √ |
| | Link HTTP URL Command | √ | √ | √ |
| | Link E-mail | √ | √ | √ |
| | Notify User | √ | √ | √ |
| | Alarm Protocol | √ | √ | √ |
| | Handle Event | √ | √ | √ |
| | Forward Event | √ | √ | √ |
| | Personnel and Vehicle Informaton | Personnel List | √ | √ |
| Vehicle List | | √ | √ | √ |

3 Function

| Classification | Function | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|-------------------|---|-------------------------------|----------------------------------|------------------|
| Monitoring Center | Live View | √ | √ | √ |
| | Playback | √ | √ | √ |
| | Video Wall | × | √(Only NVD) | √ |
| | GIS Map | × | × | √ |
| | Raster Map | √ | √ | √ |
| Event Center | Event Statistics | × | × | √ |
| | Real-time Events | √ | √ | √ |
| | Events History | √ | √ | √ |
| | Alarm Controller | × | × | √ |
| DeepXplore | POS Records | × | × | √ |
| | Access Control Records | × | √ | √ |
| | Search for Faces Based on Face Image (Singel Device) | √ | √ | √ |
| | Search for Faces Based on Face Image (Across Multiple devices) | × | × | √ |
| | Human Body Search | √ | √ | √ |
| | Non-motorized vehicle search | √ | √ | √ |
| | Vehicle Search | √ | √ | √ |
| | MPT Records | × | × | √ |
| | Record Trajectory | × | × | √ |
| | Case Bank | × | × | √ |

3 Function

| Classification | Function | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|---------------------------|----------------------------------|-------------------------------|----------------------------------|------------------|
| Maintenance Center | Overview | × | × | √ |
| | Channel Status | × | × | √ |
| | Device Status | × | × | √ |
| | Server Status | × | × | √ |
| | Fault | × | × | √ |
| | Device Update | × | × | √ |
| Access Management | Advanced Rules of Access Control | × | √(Anti-Passback ONLY) | √ |
| | Video Intercom | × | √ | √ |
| | Visit Appointment Registration | × | × | √ |
| | Attendance | × | × | √ |
| Vehicle Entrance and Exit | Entrance and Exit Monitoring | × | √ | √ |
| | Vehicle Search | × | √ | √ |
| Intelligent Analysis | People Counting | × | √ | √ |
| | Heat Maps | × | √ | √ |
| | In Area No. Analysis | × | √ | √ |
| Synthesis | Event Sync | × | × | √ |
| | Data Sync | × | × | √ |
| Log | Operator Log | √ | √ | √ |
| | Device Log | × | √ | √ |
| | System Log | √ | √ | √ |
| Quick Command | | √ | √ | √ |

4 Menu

| Classification | First Level Menu | Second Level Menu | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|---------------------------|----------------------------------|-------------------------|----------------------------|-------------------------------|------------------|
| Basic Configuration | Device | Add Device | √ | √ | √ |
| | | Device Configuration | √ | √ | √ |
| | User | Role | √ | √ | √ |
| | | User | √ | √ | √ |
| | Storage | Net Disk | × | × | √ |
| | | Server Disk | √ | √ | √ |
| Disk Group | | × | × | √ | |
| Application Configuration | Storage Plan | Recording Plan | √ | √ | √ |
| | | Recording Retrieval | × | × | √ |
| | Event | Event Plan | √ | √ | √ |
| | Map | Map | √ | √ | √ |
| | Personnel and Vehicle Informaton | Personnel List | √ | √ | √ |
| | | Vehicle List | √ | √ | √ |
| | Watch List | Face Watch List | √ | √ | √ |
| | | Vehicle Watch List | √ | √ | √ |
| | Access Control | Door Group | × | √ | √ |
| | | Access Permission Group | × | √ | √ |
| | | Public Password | × | √ | √ |
| | | Advanced Rules | × | √(Anti-Passback ONLY) | √ |

4 Menu

| Classification | First Level Menu | Second Level Menu | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|---------------------------|----------------------|-----------------------------|---------------------------------|------------------------------------|------------------|
| Application Configuration | Video Intercom | Call Management | × | √ | √ |
| | | Residence Configuration | × | √ | √ |
| | | Contacts Synchronization | × | √ | √ |
| | | Private Password | × | √ | √ |
| | | App User | × | √ | √ |
| | Attendance | Attendance Period | × | × | √ |
| | | Attendance Holiday Schedule | × | × | √ |
| | | Attendance Shift | × | × | √ |
| | | Shift Management | × | × | √ |
| | | Attendance Configuration | × | × | √ |
| | Visitor | | × | √ | √ |
| | Entrance and Exit | Parking Lot | × | √ | √ |
| | | Vehicle Group | × | √ | √ |
| | Intelligent Analysis | | × | √ | √ |

4 Menu

| Classification | First Level Menu | Second Level Menu | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional | |
|----------------------|--------------------|---------------------------|---------------------------------|------------------------------------|------------------|---|
| System Configuration | System Deployment | Distributed Configuration | × | × | √ | |
| | | Cascade Configuration | × | × | √ | |
| | License | | √ | √ | √ | |
| | System Parameters | | √ | √ | √ | |
| | Backup and Restore | | √ | √ | √ | |
| | Synthesis | Event Sync | × | × | √ | |
| Data Sync | | × | × | √ | | |
| Overview | Overview | | √ | √ | √ | |
| Management | Download Center | | √ | √ | √ | |
| | Local Picture | | √ | √ | √ | |
| | Local Recording | | √ | √ | √ | |
| | Local Settings | | √ | √ | √ | |
| | Log | Operator Log | | √ | √ | √ |
| | | Device Log | | × | √ | √ |
| | | System Log | | √ | √ | √ |
| | | Service Log Debug | | √ | √ | √ |
| Help | | √ | √ | √ | | |
| Quick Command | | √ | √ | √ | | |

4 Menu

| Classification | First Level Menu | Second Level Menu | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|----------------|--------------------|-------------------|-------------------------------|----------------------------------|------------------|
| Applications | Monitoring Center | Live View | √ | √ | √ |
| | | Video Wall | × | √ | √ |
| | | Map | √ | √ | √ |
| | Event Center | Real-time Events | √ | √ | √ |
| | | Events History | √ | √ | √ |
| | | Event Statistics | × | × | √ |
| | | Alarm Controller | × | × | √ |
| | DeepXplore | DeepXplore | √ | √ | √ |
| | | Case Bank | × | × | √ |
| | Maintenance Center | Overview | × | × | √ |
| | | Channel Status | × | × | √ |
| | | Device Status | × | × | √ |
| | | Server Status | × | × | √ |
| | | Fault | × | × | √ |
| | | Device Update | × | × | √ |

4 Menu

| Classification | First Level Menu | Second Level Menu | DSS Express (Free Version) | DSS Express (License Version) | DSS Professional |
|----------------|---------------------------|------------------------------|-------------------------------|----------------------------------|------------------|
| Applications | Access Management | Access Control | × | √ | √ |
| | | Video Intercom | × | √ | √ |
| | | Attendance | × | × | √ |
| | | Visitor | × | √ | √ |
| | Vehicle Entrance and Exit | Entrance and Exit Monitoring | × | √ | √ |
| | | Vehicle Search | × | √ | √ |
| | Intelligent Analysis | People Counting | × | √ | √ |
| | | Heat Maps | × | √ | √ |
| | | In Area No. Analysis | × | √ | √ |

ENABLING A SAFER SOCIETY AND SMARTER LIVING

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