





VAST 2 vs. VAST Security Station (VSS) Comparison Chart

| Product Name | |  VAST2 |  VSS Lite |  VSS Std |  VSS Pro |
|---|------------------|---|---|---|---|
| | | VAST 2 | VSS Lite | VSS Standard | VSS Professional |
| Product Overview | | VIVOTEK legacy VMS for a wide range of installations | Free entry-level VMS for basic surveillance needs | Cost-effective solution for small and mid-size business | Designed for mid-size to large-scale projects requiring central management and 24/7 operations |
| Deployment | | | | | |
| Maximum Number of Cameras Per Server ¹ | | 256 | 32 | 128 | 320 |
| Maximum Number of Substations Per System | | 200 (ND/NV series NVR, VAST 2 NR series NVR, VAST 2 Station) | 0 | 32 ² (ND/NV series NVR) | 700 (ND/NV series NVR, VSS Pro NR series NVR, VSS Professional Station) |
| Licensing | | | | | |
| Complimentary Camera License | | 32 (VIVOTEK cameras only) | 32 (VIVOTEK cameras only) | 8 | 0 |
| 3 rd Party Integration | Data Magnet | Add-on license | - | Included | Included |
| | TCP Message | Add-on license | - | Included | Included |
| Network Audio Integration | | Add-on license | - | Included | Included |
| Failover | Substation | Add-on license | - | - | Included |
| | CMS | Add-on license | - | - | Included |
| Transportation Integration | GIS/GPS | Add-on license | - | - | Included |
| Transaction Integration | POS ³ | Add-on license | - | - | - |
| Platform | | | | | |
| Server | Windows | Windows 11, 10 (32-bit/64-bit), 7 (32-bit/64-bit); Windows Server 2012, 2016, 2019 (Server Core installation type is not supported) | Windows 11, 10 (64-bit), 7 (64-bit); Windows Server 2012, 2016, 2019 (Server Core installation type is not supported) | Windows 11, 10 (64-bit), 7 (64-bit); Windows Server 2012, 2016, 2019 (Server Core installation type is not supported) | Windows 11, 10 (64-bit), 7 (64-bit); Windows Server 2012, 2016, 2019 (Server Core installation type is not supported) |
| | Virtual Machine | • | - | - | • (Coming soon) |
| Client | | Windows 11, 10 (32-bit/64-bit), 7 (32-bit/64-bit); Windows Server 2012, 2016, 2019 (Server Core installation type is not supported); macOS 10.16 Big Sur ⁴ | Windows 11, 10 (64-bit), 7 (64-bit); Windows Server 2012, 2016, 2019 (Server Core installation type is not supported); macOS 10.16 Big Sur ⁴ | Windows 11, 10 (64-bit), 7 (64-bit); Windows Server 2012, 2016, 2019 (Server Core installation type is not supported); macOS 10.16 Big Sur ⁴ | Windows 11, 10 (64-bit), 7 (64-bit); Windows Server 2012, 2016, 2019 (Server Core installation type is not supported); macOS 10.16 Big Sur ⁴ |

¹ Please refer to the system requirement when designing your surveillance deployments.

² The maximum number of substations per system is obtained by dividing the number of cameras an ND/NV series NVR supported by the total maximum number of cameras per system.

³ VSS only supports POS integration via Data Magnet.

⁴ The limitations of macOS client: (1) Only supports 3GP as exported video format 3GP; (2) AD login cannot be setup in macOS client; (2) Only supports the joystick AJ-001; (3) Only supports one-way audio; (4) Does not support standalone player; (5) Does not support third-party fisheye dewarping.

| Mobile APP | | iViewer (iOS/Android) | iViewer (iOS/Android) | iViewer (iOS/Android) | iViewer (iOS/Android) |
|---|------------------------|--|--------------------------|--------------------------|--|
| Key Features | | | | | |
| Live View | | • | • | • | • |
| Recording | | • | • | • | • |
| Playback | | • | • | • | • |
| Export | | • | • | • | • |
| Backup | | • | • | • | • |
| Event | | • | • | • | • |
| Dashboard | | • | • | • | • |
| Alarm | | • | - | • | • |
| E-map | | • | - | • | • |
| VCA (Counting) Report | | • | - | • | • |
| Video Wall (Matrix) | | • | - | - | • |
| Video Encryption | | | | | |
| Digital Watermark | | • | • | • | • |
| Exported Video Encryption | | • (AES-256 CTR) | • (AES-256 CTR) | • (AES-256 CTR) | • (AES-256 CTR) |
| Recording Encryption | | - | - | - | • (AES-256 CTR) |
| Search | | | | | |
| Bookmark Search | | • | • | • | • |
| Event Search | | • | • | • | • |
| Log Search | | • | • | • | • |
| Thumbnail Search | | • | • | • | • |
| Alarm Search | | • | - | • | • |
| Smart Search | | • | - | • | • |
| Deep Search ⁵ | Object Search | - | - | • | • |
| | Attribute Search | - | - | • | • |
| | Scene Search | - | - | • | • |
| | Re-Search ⁶ | - | - | - | • |
| User Management | | | | | |
| User Role | Administrator | • | • | • | • |
| | Customizable | • | • | • | • |
| | User Pre-defined | - | - | - | • |
| Device Compatibility⁷ | | | | | |
| Camera ⁸ | | VIVOTEK 8000/9000 series | VIVOTEK 8000/9000 series | VIVOTEK 8000/9000 series | VIVOTEK 8000/9000 series |
| Substation ⁹ | | VIVOTEK ND/NV series NVR, VAST 2 NR series NVR, VAST 2 Station | - | VIVOTEK ND/NV series NVR | VIVOTEK ND/NV series NVR, VSS NR series NVR, VSS Professional Station |

⁵ Please note that (1) The number of cameras a server can search is limited by your system capability; (2) The supported Deep Search features may vary depending on the specifications of camera models; (3) For cameras under ND/NV series NVRs, the supported Deep Search features may vary depending on the specifications of ND/NV series NVRs.

⁶ The maximum number of searchable objects is 200,000, which will limit the number of selectable cameras and search time intervals. Searching beyond the limit will result in a timeout.

⁷ Please refer to the datasheets of VAST 2 and VAST Security Station (VSS) for supported brands and models.

⁸ For supported camera models, please refer to https://www.vivotek.com/device_pack#supported_models.

⁹ ND8321 is excluded.



| | | | | |
|----------------------|---|---|---|---|
| Joystick | • | - | • | • |
| Network Audio Device | • | - | • | • |
| Wiegand Converter | • | - | • | • |
| I/O Box | • | - | • | • |
| Access Control | • | - | • | • |
| POS | • | - | • | • |

Camera Integration

| | | | | |
|--------------|----------------------|---------|----------------------|----------------------|
| Video Source | VIVOTEK, ONVIF, RTSP | VIVOTEK | VIVOTEK, ONVIF, RTSP | VIVOTEK, ONVIF, RTSP |
|--------------|----------------------|---------|----------------------|----------------------|

NVR Integration

| | | | | | |
|---------|----------------|---|---|---|---|
| Add NVR | Auto Scan | • | - | • | • |
| | Manual | • | - | • | • |
| | From VIVOCLOUD | • | - | - | • |

