

## CA4K™

### System Requirements

### (V1.1.x)

### (Computer Specifications)

Revision: Rev J

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**VERY IMPORTANT:** The specifications below are the Recommended Minimum Requirements. If possible, it is always recommended to exceed the minimum specifications listed below. Exceeding the Minimum Requirements will also allow for future expansion of the system.

The minimum specifications for RAM is 8 Gig and is sufficient for a small system with up to 4 workstations, less than 50 panels, less than 100 Locks and less than 200 events per minute.

Any system with 50+ panels or 100+ Locks should have 16 Gig or more of memory and use a separate SQL box (Database Server).

### Complete Install (Server with 1 to 4 Workstations or 1-25 panels) Recommended Minimum Requirements

| Name             | Description   |
|------------------|---|
| CPU              | Intel Dual Core, 2.0Ghz   |
| RAM              | 8 Gig   |
| Network (NIC)    | Ethernet - 1 Gig network card   |
| Monitor          | 17" or greater (1600x900 Min. Resolution)   |
| Hard Drive       | 300 GB Recommended  |
| USB Ports        | 4 Min.  |
| Serial Ports     | Optional – 1 Expandable to 64   |
| Sound            | Optional  |
|                  |   |
| Operating System | Windows 10 Pro, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019  |
| Database         | Microsoft SQL 2012 Express, Microsoft SQL 2014 Express, Microsoft SQL 2016 Express, Microsoft SQL 2017 Express<br><br>Note: For higher performance, use the full version of Microsoft SQL                             |
| Backup           | Tape/CD/DVD/Network   |
| Notes:           | 1) Integration options such as EPI Badging, Napco Integration, Scripting and Video Integration should be installed and executed on a Workstation if the system contains greater than 20 panels or 100 Wireless locks. |

## Complete Install (Server with 5-19 Workstations or 25 -100 panels)

### Recommended Minimum Requirements

| Name             | Description  |
|------------------|--|
| CPU              | Xeon Quad Core 2.0Ghz  |
| RAM              | 16 Gig   |
| Network (NIC)    | Ethernet - 1 Gig network card  |
| Monitor          | 17" or greater (1600x900 Min. Resolution)  |
| Hard Drive       | 500 GB Recommended   |
| USB Ports        | 4 Min.   |
| Serial Ports     | Optional – 1 Expandable to 64  |
| Sound            | Optional   |
|                  |  |
| Operating System | Windows 10 Pro, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019   |
| Database         | Microsoft SQL 2012 Express, Microsoft SQL 2014 Express, Microsoft SQL 2016 Express, Microsoft SQL 2017 Express<br><br>Note: For higher performance, use the full version of Microsoft SQL                |
| Backup           | Tape/CD/DVD/Network  |
| Notes:           | 1) Integration options such as Napco Integration, Scripting and Video Integration should be installed and executed on a Workstation if the system contains greater than 20 panels or 100 Wireless locks. |

## Complete Install (Server with 20+ Workstations or 100+ panels)

### Recommended Minimum Requirements

| Name             | Description  |
|------------------|--|
| CPU              | 2 x Xeon Quad Core 2.0Ghz  |
| RAM              | 16 Gig   |
| Network (NIC)    | Ethernet - 1 Gig network card  |
| Monitor          | 17" or greater (1600x900 Min. Resolution)  |
| Hard Drive       | Raid 5 – 3 Drives Min.   |
| USB Ports        | 4 Min.   |
| Serial Ports     | Optional – 1 Expandable to 64  |
| Sound            | Optional   |
|                  |  |
| Operating System | Windows 10 Pro, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019   |
| Database         | Microsoft SQL 2012 Express, Microsoft SQL 2014 Express, Microsoft SQL 2016 Express, Microsoft SQL Express 2017<br><br>Note: For higher performance, use the full version of Microsoft SQL                |
| Backup           | Tape/CD/DVD/Network  |
| Notes:           | 1) Integration options such as Napco Integration, Scripting and Video Integration should be installed and executed on a Workstation if the system contains greater than 20 panels or 100 Wireless locks. |

## Database Server

### Recommended Minimum Requirements

| Name             | Description  |
|------------------|--|
| CPU              | 2 x Xeon Quad Core 2.0 Ghz   |
| RAM              | 16 Gig   |
| Network (NIC)    | Ethernet - 1 Gig network card  |
| Monitor          | 17" or greater (1600x900 Min. Resolution)  |
| Hard Drive       | 500 GB Recommended   |
| USB Ports        | 4 Min.   |
| Serial Ports     | Optional – 1 Expandable to 64  |
| Sound            | Optional   |
|                  |  |
| Operating System | Windows 10 Pro, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019   |
| Database         | Microsoft SQL 2012 (Full version recommended and preinstalled)<br>Microsoft SQL 2014 (Full version recommended and preinstalled)<br>Microsoft SQL 2016 (Full version recommended and preinstalled)<br>Microsoft SQL 2017 (Full version recommended and preinstalled) |
| Backup           | Tape/CD/DVD/Network  |
| Notes:           | 1) A Database Server hosts the two live and two archive databases. By default, a caComDb database will be installed on the Server. After the installation, the caComDb can manually be moved to the Database Only (Database Server) computer.                        |

## Server Only (Used with a Database Server)

### Recommended Minimum Requirements

| Name             | Description   |
|------------------|---|
| CPU              | Intel Dual Core, 2.0Ghz   |
| RAM              | 8 Gig   |
| Network (NIC)    | Ethernet - 1 Gig network card   |
| Monitor          | 17" or greater (1600x900 Min. Resolution)   |
| Hard Drive       | 300 GB Recommended  |
| USB Ports        | 4 Min.  |
| Serial Ports     | Optional – 1 Expandable to 64   |
| Sound            | Optional  |
|                  |   |
| Operating System | Windows 10 Pro, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019  |
| Database         | Microsoft SQL 2012 Express, Microsoft SQL 2014 Express<br>Microsoft SQL 2016 Express, Microsoft SQL 2017 Express<br><br>Note: For higher performance, use the full version of Microsoft SQL           |
| Backup           | N.A.  |
| Notes:           | 1) By default, a Server Only installation requires SQL to create a caComDb database on it. After the installation, the caComDb can manually be moved to the Database Only (Database Server) computer. |

## Hardware Communication Server (HCS – Used for additional Com Servers) Recommended Minimum Requirements

| Name             | Description  |
|------------------|--|
| CPU              | Intel Dual Core, 2.0Ghz  |
| RAM              | 16 Gig   |
| Network (NIC)    | Ethernet - 1 Gig network card  |
| Monitor          | 17" or greater (1600x900 Min. Resolution)  |
| Hard Drive       | 300 GB Recommended   |
| USB Ports        | 4 Min.   |
| Serial Ports     | Optional – 1 Expandable to 64  |
| Sound            | Optional   |
| Operating System | Windows 10 Pro, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019   |
| Database         | Microsoft SQL 2012 Express, Microsoft SQL 2014 Express, Microsoft SQL 2016 Express, Microsoft SQL 2017 Express<br><br>Note: For higher performance, use the full version of Microsoft SQL  |
| Backup           | Tape/CD/DVD/Network  |
| Notes:           | <ol style="list-style-type: none"> <li>1) An additional Hardware Communication Server (HCS) must be installed on its own computer.</li> <li>2) By default, an additional Hardware Communication Server (HCS) requires SQL to create a caComDb database on it.</li> </ol> |

## Workstation Recommended Minimum Requirements

| Name             | Description  |
|------------------|--|
| CPU              | Intel Dual Core, 2.0Ghz  |
| RAM              | 8 Gig  |
| Network (NIC)    | Ethernet - 1 Gig network card  |
| Monitor          | 17" or greater (1600x900 Min. Resolution)  |
| Hard Drive       | 300 GB Recommended   |
| USB Ports        | 4 Min.   |
| Serial Ports     | Optional – 1 Expandable to 64  |
| Sound            | Optional   |
| Operating System | Windows 10 Pro, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019   |
| Database         | N.A.   |
| Backup           | N.A.   |
| Notes:           | <ol style="list-style-type: none"> <li>1) Integration options such as Napco Integration, Scripting and Video Integration should be installed and executed on a Workstation if the system contains greater than 20 panels or 100 Wireless locks.</li> </ol> |

## Report Station Recommended Minimum Requirements

| Name             | Description  |
|------------------|--|
| CPU              | Intel Dual Core, 2.0Ghz  |
| RAM              | 8 Gig  |
| Network (NIC)    | Ethernet - 1 Gig network card  |
| Monitor          | 17" or greater (1600x900 Min. Resolution)  |
| Hard Drive       | 300 GB Recommended   |
| USB Ports        | N.A.   |
| Serial Ports     | N.A.   |
| Sound            | N.A.   |
|                  |  |
| Operating System | Windows 10 Pro, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019 |
| Database         | N.A.   |
| Backup           | N.A.   |
| Notes:           | 1) A Report Station only provides the ability to run reports.                    |