

Q-Manager Virtual Server by Others

The Q-Manager software may be installed on a virtual server image provided by the customer's IT department. The Q-Manager software is used to collect and record data from the Quantum or Vive systems.

During system start-up, the Lutron field engineer will install the software on the virtual server image. The customer's IT department staff must be available on-site to assist with this process.

The server is dedicated for Lutron Quantum or Vive Vue software only.

Software Required

- Microsoft® Internet Information Services (IIS) 7 or later (for Personna PC, Quantum Vue, Vive Vue, and Enterprise Vue)
- Microsoft® Internet Explorer® 9 or later
- Microsoft® .NET Framework 3.5
- Microsoft® .NET Framework 4.5 (Quantum 3.0 and newer, Vive Vue 1.7 and newer)

Auto Restart Recommended

- Server should be configured to automatically restart when power is lost so it does not remain off when power is restored.
- Data recording is not active while the server is powered off.

Minimum Resources Required for Virtual Server

- Quad Core Intel® Xeon® processor
- 8 GB RAM
- 250 GB hard drive
- Screen with minimum 1280 x 1024 resolution
- Two (2) 100 MB Ethernet network interfaces
 - One (1) Ethernet network interface will be used for communication to Quantum lighting management panels or Vive wireless hubs
 - One (1) Ethernet network interface will be used for communication to corporate intranet, allowing access from Quantum Vue client PC, Vive Vue, and/or GreenGlance client PC¹

Note: Only one (1) Ethernet network interface is used if all Quantum light management panels and client PCs are on the same network.

Microsoft® SQL & OS Required for Each Quantum Version

Software Version	Microsoft® SQL Version	Microsoft® OS Version
Quantum 1.5 - 1.9	SQL 2005 Express (default) SQL 2005 Full (requires custom installation)	Windows® XP Pro (32-bit) Windows® 2003 Server (32-bit)
Quantum 2.0 - 2.7	SQL 2005 Express (default) SQL 2005 Full (requires custom installation)	Windows® XP Pro (32-bit) Windows® 2003 Server (32-bit) Windows® 7 Professional (32 or 64-bit) Windows® 2008 R2 Server (64-bit)
Quantum 3.0 - 3.x	SQL 2012 Express (default) SQL 2012 Full (requires custom installation)	Windows® 7 Professional (64-bit) Windows® 2008 R2 Server (64-bit) Windows® 8 Professional (64-bit) Windows® 8.1 Professional (64-bit) Windows® 2012 R1 Server (64-bit) Windows® 2012 R2 Server (64-bit)

Microsoft® SQL & OS Required for Each Vive Vue Version

Software Version	Microsoft® SQL Version	Microsoft® OS Version
Vive Vue 1.7 and newer	SQL 2012 Express (default) SQL 2012 Full (requires custom installation)	Windows® 2016 R1 Server (64-bit) Windows® 2016 R2 Server (64-bit)

¹ Energy reports and monitoring requires an energy license (P/N QSW-RPT-PP-A and QSW-GGL-PP-A).

Job Name:	Model Numbers:
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Considerations for Customer-Supplied Computers

- Lutron Field Service will install the purchased Lutron software on one computer only, at the time of commissioning. Customer must have available:
 - The working virtual server / computer that meets the minimum Lutron specification
 - The original Windows® installation disks
 - All driver disks for the customer-supplied computer
 - Administrative rights for the customer-supplied computer
 - An IT representative
- Computers that meet the minimum specification but cannot be configured by Field Service (maximum on-site configuration time is limited to 4 hours) will require a connection to the Internet for remote access from a Lutron services company representative (additional charges may apply).
- If remote access is not available, the computer must be shipped (using an insured shipment) by the customer, at the owner’s risk and expense, to Lutron for Lutron software installation and from Lutron to the job site. The computer must be shipped with the correct operating system disk and all driver disks. A 4-week lead-time will apply to any computers shipped to Lutron. To cover the Lutron troubleshooting, an additional 4-hour service charge will apply. Computers supplied by the customer are not covered by a Lutron warranty.
- Once configured by Lutron, the computer must be used for Lutron lighting control only and cannot be used for other applications. No applications other than the Lutron software may be installed on the computer.
- Lutron reserves the right to ask the customer to reformat the customer’s computer and reload the operating system to rectify any installation issues.
- Installation of patches and updates for the operating system or software on the machine may require Lutron software updates. Lutron recommends purchasing a Software Maintenance Agreement (SMA) which proactively tests for interoperability for your system configuration and provides software patches in the event of a compatibility issue.
- Consult with Lutron before installing any anti-virus or security software.
- Any Lutron software upgrades can only be loaded on computers that have been unaltered after the initial Lutron configuration. Otherwise, additional charges will apply.

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SPECIFICATION SUBMITTAL

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