k-Space Controller Specifications

September 2021

The following pages document the integrated controller configurations offered for use with k-Space metrology tools. Rackmount and desktop controllers are built in-house to ensure the best performance with our products. Laptop controllers are also available with compatible systems for portability. Please contact us at requestinfo@k-space.com or (734) 426-7977 for additional details.

Disclaimer: The specifications listed below in no way constitute a binding sales agreement. The components of shipped controllers may be subject to slight variation.
kCPU-A3U – 3U Rackmount Controller

Case: iStarUSA D-300-PFS-DE3BL 3U Rackmount Case
Operating System: Windows 10 Professional - 64bit
Processor: Intel 8th Gen Core i5-8400, Hex Core @ 2.8 GHz (4.0 GHz turbo) or AMD equivalent
Memory: 16GB (2 x 8GB) DDR4 3000 SDRAM
Internal Hard Drive: 1TB Solid State Drive
Graphics: Dedicated Graphics Card with Support for Multiple Displays
Optical Drive: None
Power Supply: 650W Modular Power Supply
Motherboard: GIGABYTE Z370 HD3 / GIGABYTE Z370 HD3P
*A second factory imaged backup SSD is provided with all computers purchased with systems.
**An optical drive can be added on request to supporting configurations for an additional charge.
kCPU-A4U – 4U Rackmount Controller

**Case:** CHENBRO RM42200-1 4U Rackmount Case  
**Operating System:** Windows 10 Professional - 64bit  
**Processor:** Intel 8th Gen Core i5-8400, Hex Core @ 2.8 GHz (4.0 GHz turbo) or AMD equivalent  
**Memory:** 16GB (2 x 8GB) DDR4 3000 SDRAM  
**Internal Hard Drive:** 1TB Solid State Drive  
**Graphics:** Dedicated Graphics Card with Support for Multiple Displays  
**Optical Drive:** None*  
**Power Supply:** 650W Modular Power Supply  
**Motherboard:** GIGABYTE Z370 HD3 / GIGABYTE Z370 HD3P  

*A second factory imaged backup SSD is provided with all computers purchased with systems.  
**An optical drive can be added on request to supporting configurations for an additional charge.
kCPU-DT – Desktop Controller

Case: Corsair Mid-Tower Desktop Case
Operating System: Windows 10 Professional - 64bit
Processor: Intel 8th Gen Core i5-8400, Hex Core @ 2.8 GHz (4.0 GHz turbo) or AMD equivalent
Memory: 16GB (2 x 8GB) DDR4 3000 SDRAM
Internal Hard Drive: 1TB Solid State Drive
Graphics: Dedicated Graphics Card with Support for Multiple Displays
Optical Drive: None
Power Supply: 650W Modular Power Supply
Motherboard: GIGABYTE Z370 HD3 / GIGABYTE Z370 HD3P
*A second factory imaged backup SSD is provided with all computers purchased with systems.
**An optical drive can be added on request to supporting configurations for an additional charge.
kNB-LLT – Laptop Controller

Model: HP Pavilion x360 - 14t
Operating System: Windows 10 Professional - 64bit
Processor: Intel® Core™ i5 11th Gen or AMD equivalent
Memory: 16 GB DDR4-3200 SDRAM (2 x 8 GB)
Display: 14” diagonal, HD (1366 x 768)
Internal Hard Drive: 512 GB PCIe® NVMe™ M.2 SSD
Graphics: Intel® Iris® Xe Graphics
*Note: Not all kSA systems can be configured with a laptop controller.
Monitor, Mouse and Keyboard

All desktop and rackmount computers ship with a monitor, mouse and keyboard. The following specifications are for the standard monitor, keyboard, mouse that is included with kSA computers. Specifications may be subject to slight variation without warning. The products supplied will be equal or better than the specifications listed below.

Monitor

Size: 22”
Resolution: 1680 x 1050 @ 60hz
Flat Panel Mount Interface: VESA (100mm)
Panel Weight (for mounting): 3kg / 6.61 lbs
Connectivity:
1 x DP (ver 1.2)
1 x HDMI (ver 1.4)
1 x VGA
1 x USB 3.0 port - Upstream
2 x USB 3.0 ports - Side
2X USB 2.0 - bottom

Mouse

Buttons: 2 Buttons + Scroll Wheel
Interface: Wired - USB
Sensor Type: Optical - 1000 dpi
Cable Length: 6 ft

Keyboard

Layout: Standard Size 104 Key - QWERTY
Interface: Wired - USB
Dimensions: 17.4 in x 5 in x 1 in
GIGABYTE Z370 HD3 Motherboard

Standard Motherboard supplied with kSA Desktop and Rackmount Controllers.
GIGABYTE Z370 HD3P Motherboard

*Note: This motherboard is supplied with systems that require PCI connectivity at the time of purchase.