

# MPC-1730 TripleView

## All-in-one Three-Monitor Portable Workstation



### Features

- » *Build-to-order ruggedized portable workstation.*
- » *Supports Commercial-off-the-shelf ATX motherboards, Intel multi-core processors, and PC components.*
- » *Up to 32GB of main memory.*
- » *PCI and PCI-Express slots for add-on cards.*
- » *Three wide-screen 17.3" LCDs, 1920x1080 resolution per screen.*
- » *Extends Microsoft Windows for three 1920x1080 screens, or work with extended screen of 5760x1080 resolution.*
- » *Multiple drive bays for data storage devices—up to seven 2.5" hard disk drives.*
- » *Fold-down keyboard with touchpad pointing device.*
- » *650-watt ATX power supply standard, upgradable to 850 watts.*
- » *Includes towing case with wheels.*

The MPC-1730 is designed to take advantage of COTS (commercial-off-the-shelf) PC components for its substantial expansion and upgrade capabilities. It delivers workstation-class performance with multi-core processor, single or dual graphics cards, up to 32GB of main memory, and more than 4TB of storage. Three full HD LCD screens supports multiple Windows desktop or extended resolution.

The system enclosure is constructed of aluminum alloy for durability. Corner rubber bumpers adds to its protection against bumps and shock. A padded towing case with wheels and telescopic handle is included for long-distance transportation of the system. A fully configured MPC-1730 workstation provides a totally integrated portable system ready to be deployed in industrial environments such as video monitoring, data acquisition and test applications.



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## System Enclosure Specifications

<i>Chassis Construction</i>	<b>System Enclosure</b> Aluminum alloy chassis. Internal space supports ATX, Micro-ATX, Mini-ATX form-factor motherboards. Rubber bumpers on corners. Rubber-clad carrying handle. Tilt-up feet under chassis and keyboard. Built-in speaker.
<i>Integrated Display</i>	Three 17.3" LCD monitors with LED backlight. 1920x1080 resolution per screen. Independently adjustable monitor brightness, contrast. Backlight on/off switch for each screen.
<i>Storage Bays</i>	1x 5.25" externally accessible drive bay. May be used for 4x 2.5" removable hard drive cage. 1x 2.5" removable drive bay. 2x 2.5" internal hard drive mounts. 2x internal 3.5" drive bay. 1x slim-type optical disk drive bay.
<i>Add-on Card Support</i>	Chassis supports up to seven expansion cards. Number 7 slot supports expansion card length up to 8.25" Number 1~6 slot positions support expansion cards up to 13.3"
<i>Keyboard</i>	Fold-down keyboard with touchpad pointing device.
<i>Cooling</i>	Two 120mm case fans with filter.
<i>Dimensions</i>	17.25" (W) x 14.0" (H) x 9.5" (D) with LCD panels closed. 47.625" (W) x 14.0" (H) x 9.5" (D) with left and right LCD panels open.
<i>Weight</i>	Approximately 35 lbs. with motherboard, hard drive, and power supply installed.

<i>Input AC</i>	<b>Electrical and Power</b> 100 ~ 240 V @ 50 ~ 60 Hz, full range (PFC).
<i>Output</i>	650 watt ATX power supply standard, upgradable to 850 watt power supplies.

<i>Temperature</i>	<b>Environmental</b> Operating 0~50-C (32~122 -F); non-operating -20~60-C (-4~140 -F)
<i>Humidity (non-condensing)</i>	Operating: 5~95% @ 40-C.
<i>Shock</i>	Operating: half-sine wave @ 15 G, 11 ms duration on <sup>TM</sup> x, <sup>TM</sup> y, <sup>TM</sup> z directions, 3 times per face, @ 20-C, 65% RH. Non-operating: half-sine wave @ 50 G, 11 ms duration on <sup>TM</sup> x, <sup>TM</sup> y, <sup>TM</sup> z directions, 3 times per face, @ 20-C, 65% RH.
<i>Vibration</i>	Operating: 20-60 HZ, 0.075 mm sine wave sweep in XYZ directions for 0.5 hrs @ 20-C, 60% RH. Non-operating 10-50 Hz, 0.15 mm sine wave sweep in XYZ directions for 0.5 hrs. @ 20-C, 60% RH.
<i>EMI/Safety</i>	CE, UL, FCC.



1. 5.25" drive bay. Illustration shows hard drive cage of 4x 2.5" removable hard drives installed in this drive bay.
2. Input/output panel.
3. Expansion slots. Illustration shows two NVidia video cards installed.
4. Removable 2.5" hard drive bay.
5. Slim-type optical disk drive bay.

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## System Configuration with Quad-Core CPU, One or Two Video Cards

### *System Configuration with Intel Quad-Core Desktop Processor*

<i>System Board</i>	Intel Z77 chipset LGA 1155 system board. Supports 4-Channel, dual-port Thunderbolt technology.
<i>Processor</i>	Intel Core i7-3770 Ivy Bridge 3.4GHz quad-core processor.
<i>System Memory</i>	8GB dual channel DDR3 DRAM installed, up to 32GB.
<i>Graphics Controller</i>	One or two NVidia GeForce PCI-Express video cards; SLI mode enabled. Choose from GeForce 660, 670 or 680 video cards.
<i>Installed Storage</i>	One 320GB 7200 RPM hard drive. One DVD +/- RW optical disk drive.
<i>Storage Device Controller</i>	4x SATA 3.0Gb/s ports. 4 x SATA 6.0Gb/s ports. RAID 0/1/5/10 support.
<i>LAN</i>	Broadcom BCM57781 LAN controller, 10/100/1000Mbps.
<i>Audio</i>	Realtek ALC898 7.1 channels audio controller.
<i>Expansion Slots</i>	2x PCI-E 3.0 x16 slots. 2x PCI-E 3.0 x1 slots (*one slot available for add-on card). 2x PCI slots (*one slots available for add-on card).
<i>External Panel I/O Ports</i>	1x PS/2 keyboard/mouse. 1x D-Sub. 1x HDMI. 1x DisplayPort Input for Thunderbolt port (TBT2 for test only). 2x USB 2.0. 4x USB 3.0. 1x eSATA 6Gb/s. 1x S/PDIF Out 5x audio ports.
<i>Operating System</i>	Microsoft Windows 7 Professional 64-bit.

### *Note*

\* Available slots when two double-width video cards are already inserted into x16 PCI-Express slots.  
Please use this as a starting point from which components can be modified to meet your application requirements.



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