

- a rear cover assembly placed over the bottom surface of said cooling assembly, said rear cover assembly including:
- an exhaust fan in fluid communication with said air outlet;
 - a cover inlet in fluid communication with said air inlet;
 - a filter placed over said cover inlet; and
 - a fan positioned to draw air towards said heat sink; and
- a controller in communication with said sensors, said inverters, and said fans.
- 2.** The monitor of claim 1 wherein said filter is a HEPA filter.
- 3.** The monitor of claim 1 further comprising:
- a brightness control device in communication with said controller; and
 - a remote brightness control device in communication with said controller, said remote brightness control device overriding said brightness control device.
- 4.** The monitor of claim 3 wherein:
- said remote brightness control device includes a switch for designating a brightness range and a potentiometer for specifying a brightness within a designated range.
- 5.** The monitor of claim 1 further comprising:
- a fan status indicator light in communication with said controller;
 - a temperature status indicator light in communication with said controller; and
 - a power status indicator light in communication with said controller.
- 6.** The monitor of claim 1 further comprising an I/O device that is in communication with said controller.
- 7.** The monitor of claim 6 wherein said I/O device is a serial port.
- 8.** The monitor of claim 6 wherein said I/O device is an infrared data association port.
- 9.** The monitor of claim 6 wherein said I/O device is connected to a network.
- 10.** The monitor of claim 9 wherein said network is the Internet.
- 11.** The monitor of claim 9 wherein said network is an intranet.
- 12.** The monitor of claim 1 wherein each said inverter drives a different portion of said bulbs.
- 13.** The monitor of claim 1 wherein said light sensor generates real-time diagnostic data and wherein said light sensor is dynamically reconfigured in response to said diagnostic data.
- 14.** A method of controlling a backlit liquid crystal display monitor, said method comprising:
- receiving target data including target backlight chamber temperature, target electronics chamber temperature, and target bulb luminance;
 - receiving actual data including actual backlight chamber temperature, actual electronics chamber temperature, actual bulb luminance, heat sink fan status and current, exhaust fan status and current, and inverter status and current;
 - adjusting the monitor settings in response to said target data and said actual data, said adjusting including:
 - setting input current to said inverter;
 - setting said heat sink fan speed; and
 - setting said exhaust fan speed; and
 - sending a notification in response to said target data, said actual data and said adjusting.
- 15.** The method of claim 14 wherein said sending a notification includes setting an indicator light.
- 16.** The method of claim 15 wherein said indicator light includes a fan status indicator light set in response to said heat sink fan status and said exhaust fan status.
- 17.** The method of claim 15 wherein said indicator light includes a temperature status indicator light set in response to said target backlight chamber temperature, said target electronics chamber temperature, said actual backlight chamber temperature, and said actual electronics chamber temperature.
- 18.** The method of claim 15 wherein said indicator light includes a power status indicator light.
- 19.** The method of claim 14 wherein said sending a notification includes creating a log entry.
- 20.** The method of claim 19 wherein said log entry includes said actual data and a date/time stamp.
- 21.** The method of claim 20 wherein said log entry further includes duration of failure and action taken in response to a failure condition.
- 22.** The method of claim 20 wherein said log entry further includes said target data.
- 23.** The method of claim 19 wherein said log entry includes a date/time stamp, said target bulb luminance and said actual bulb luminance in response to said actual bulb luminance being below said target bulb luminance.
- 24.** The method of claim 23 wherein said log entry is repeated for each drop of a pre-selected luminance interval between said actual bulb luminance and said target bulb luminance.
- 25.** The method of claim 19 wherein said log entry includes a date/time stamp, said target electronics chamber temperature and said actual electronics chamber temperature in response to said actual electronics chamber temperature being above said target electronics chamber temperature.
- 26.** The method of claim 19 wherein said log entry includes a date/time stamp, said target backlight chamber temperature and said actual backlight chamber temperature in response to said actual backlight chamber temperature being above said target backlight chamber temperature.
- 27.** The method of claim 19 wherein said log entry includes system data.
- 28.** The method of claim 27 wherein said system data includes date of manufacture of the monitor, serial number of the monitor, component serial numbers, installation dates, hours in use, warranty expiration dates, system alias, and non-volatile memory available.
- 29.** The method of claim 19 wherein said adjusting further comprises:
- adjusting said monitor settings in response said log entry.
- 30.** The method of claim 14 wherein said sending a notification includes sending said target data and said actual data to an I/O device.
- 31.** The method of claim 14 wherein said sending a notification includes sending a service request to an I/O device.