

MediaHawk®

4500



Features

- Up to 2,400 streams per server*
- Gatling Stream Resiliency™
- Multiple levels of caching
- Scalable ingest in support of time-shifted TV
- 10 GbE or 1 GbE output options
- Legacy platform compatibility

* SD content @ 3.75 Mbps

As an integral component of Concurrent's MediaHawk Content Delivery System, Concurrent's **MediaHawk® 4500** is a standards-based, high-availability video server capable of supporting 2,400* simultaneous on-demand streams over a wide array of transport networks, including HFC cable, IPTV and IP streaming networks. The MediaHawk 4500 features Gatling Resilient Streaming Technology™, which automatically detects failures and instantly routes stream demands to alternate resources to prevent any interruption of VOD service. The MediaHawk 4500 supports ISA, NGOD and Concurrent back offices, as well as Regional File Server Functionality, allowing for better than stream rate distribution of content from a library complex to an edge complex.

Concurrent's MediaHawk Content Delivery System supports the independent scaling of streams, storage, ingest and cache. Individual modules may be added as necessary to fit the needs of the application. The MediaHawk platform employs a multi-level caching strategy that profiles content based on usage and places it on the storage technology with the most appropriate price and performance characteristics. This enables Concurrent to build high performance, reliable and scalable solutions that make economic sense.

Concurrent's **Real-Time Catcher™ 2000 (RTC-2000)** is a dedicated content ingestion server. Each server can support data rates exceeding 281 Mbps. When used in conjunction with time-shifted TV applications, the Real-Time Catcher can

ingest content and make it available for playback within five seconds of the original broadcast.

The **MediaStore™ 2000** is a high performance storage array designed to support a wide variety of on-demand and time-shifted TV applications. Each MediaStore can support up to 2,000 hours of standard definition content. When attached to a MediaHawk complex, data hosted on a MediaStore is accessible to any server in that complex. The MediaStore 2000 features RAID protection, dual ported Fibre Channel interconnects and dual load sharing power supplies in order to ensure the highest reliability operation.

The **MediaCache™ 1000** is the first in a line of storage devices based on non-volatile flash memory technology. Using commercial off-the-shelf solid state drives (SSD), the MediaCache is a cost effective way to turbo charge the I/O bandwidth capacity of the MediaHawk platform. MediaCache offers approximately three times the I/O bandwidth of traditional disk based arrays. With virtually no moving parts, the MediaCache's RAID protection, dual load sharing power supplies and redundant Fibre Channel ports make it an excellent solution for environments where reliability is critical.

The **MediaMatrix Interconnect** provides Fibre Channel connectivity enabling any content asset to be available to any MediaHawk video server for streaming.

Concurrent VOD systems are commercially deployed worldwide, with over 1 million streams in 26 countries.

Specifications

MediaHawk 4500

Maximum Streaming Capacity

2,400 streams (SD Content @3.75 Mbps)

Supported protocols

- RTSP
- NGOD
- ISA-compliant
- LSC
- DMSCC
- Concurrent management protocols

Encoding Formats Supported

- MPEG-1 (transport encoded)
- MPEG-1 AC-3 Audio
- MPEG-2
- MPEG-4

Bit Rates Supported

1 Mbps MPEG-4 to 18 Mbps MPEG-2 High Definition

System Monitoring

Concurrent Health Monitor, SNMP

Trick Mode Support

Fast Forward/Rewind in variable combinations

Input Ports

Gigabit Ethernet and FC4

Streaming Outputs

Gigabit Ethernet or 10 Gigabit Ethernet

Environmental

Operating Environment: 10° to 35° C (50° to 95° F)
Storage Environment: 0° to 50° C (32° to 122° F)
Relative Humidity: 25% to 80%

Power Requirements

Hot Plug Redundant Power Supplies
314 Watts
Input Voltage Range: 100-230 VAC, N48-N60V DC
Line Frequency: 50-60 Hz
Input Current: 13.0 Amps (@115 VAC)
Heat Dissipation: 1071 BTUs per hour

Physical

Dimensions: 3.5" (8.9 cm) (2 RU) height x 17.6" (44.7 cm) width x 25.6" (55.02 cm) depth
Fits in 30" (76.2 cm) or 36" (91.4 cm) deep racks
Optional telco rack installation kits
Weight: 55 lbs (24.95 kg)

MediaStore 2000

Input/Output Connections

Single Fibre Channel 4 Connection

Storage Hours

(based on 3.75 Mbps content encoding rate):
Supports configurations in 500 hours, 1,000 hours or 2,000 hours (with 16 disks)

Power

Hot Plug Redundant Power Supplies
563 watts
Input voltage: 100-230 VAC, optional -48 to -60 V DC
Line frequency: 50-60 Hz
Heat dissipation: 1920 BTUs per hour

Environmental

Operating Environment 10° to 35° C; 50° to 95° F
Storage temperature range:
0° to 50° C; 32° to 122° F
Relative humidity: 25% to 80%

Physical

Dimensions: 5.13" (13.03 cm) (3RU) height x 17.6" (44.71 cm) width x 21" (53.34 cm) depth
Fits in 30" (76.2 cm) or 36" (91.4 cm) deep racks
Optional Telco-Rack Installation kits
Weight = 81 lbs. (36.82 kg)

MediaCache 1000

Input/Output Connections

Up to 8 Fibre Channel 4

Storage Hours

(based on 3.75 Mbps content encoding rate):
Supports configurations in 540 hours or 1,080 hours (with 16 disks)

Power

Hot Plug Redundant Power Supplies
250 watts
Input voltage: 100-230 VAC, optional -48 to -60 V DC
Line frequency: 50-60 Hz
Heat dissipation: 53 BTUs per hour

Environmental

Operating Environment 10° to 35° C; 50° to 95° F
Storage temperature range:
0° to 50° C; 32° to 122° F
Relative humidity: 25% to 80%

Physical

Dimensions: 5.13" (13.03 cm) (3RU) height x 17.6" (44.71 cm) width x 21" (53.34 cm) depth
Fits in 30" (76.2 cm) or 36" (91.4 cm) deep racks
Optional Telco-Rack Installation kits
Weight = 81 lbs. (36.82 kg)

MediaMatrix Interconnect

Quantity

2 (up to 20 ports each)

Port Configurations

8, 12, 16 and 20 port Fibre Channel 4

Power

Hot Plug Redundant Power Supplies
100 Watts
Input Voltage: 100-230 VAC
Line Frequency: 50-60 Hz
Heat Dissipation: 342 BTUs per hour
N48VDC option available with external inverter
External inverter requires 110 watts N48-N60VDC power and heat dissipation of 377 BTUs per hour

Environmental

Operating Environment 5° to 40° C; 41° to 104° F
Storage temperature range:
-40° to 70° C; -40° to 158° F
Relative humidity: 5% to 90%

Physical

Dimensions: 1.75" (4.4 cm) Height (1 Rack Unit) x 17.0" (43.2 cm) Width x 21.5" (54.6 cm) Depth
Fits in 30" (76.2 cm) or 36" (91.4 cm) deep racks
Optional Telco-Rack Installation kits
Weight = 18 lbs (8.1647 kg)



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