

MediaHawk®

4000

Features

- Field hardened VOD software running on reliable off-the-shelf hardware
- Independently scalable ingest, streaming and storage for ultimate flexibility
- Supports centralized, hybrid or distributed network architectures
- Demonstrated session set-up reliability over 99.9%
- Scalable enough to support the world's largest VOD systems
- Available as part of Concurrent's end-to-end content delivery system or integrated with industry leading middleware systems



Concurrent's **MediaHawk Content Delivery System** is a scalable video server complex designed to support demanding VOD deployments. The MediaHawk solution is made up of three widely deployed components: the **MediaHawk® 4000 Video Server**, the **MediaStore 2000 content storage system** and the **MediaMatrix™ Interconnect**. These components are configured to support a wide range of network architectures and to allow for streams, storage and ingest to scale independently.

As an integral component of the MediaHawk Content Delivery System, Concurrent's **MediaHawk Model 4000 Video Server** is a standards-based, highly available video server capable of reliably supporting thousands of viewers with on-demand services over a wide array of transport networks, including hybrid fiber coax (HFC), Internet Protocol Television (IPTV) and IP-streaming networks including Gigabit Ethernet (GigE networks). The video server operates on off-the-shelf hardware from best in class manufacturers, and is designed for interoperability with the **MediaHawk 4500** video server. Using Concurrent's field proven MediaHawk software, with over 1 million streams deployed, the server is an excellent choice for truly demanding VOD deployments. The MediaHawk 4000 supports multiple media formats including MPEG-1, MPEG-2, and MPEG-4 H.264, and is

easily scalable in terms of streaming capacity and storage, making it the ideal product for entry level customers or lab environments.

The **MediaStore 2000** provides on-demand media storage for access to all the streams of the MediaHawk Content Delivery System. Each MediaStore 2000 is capable of storing up to 2,000 hours of content (based on content encoding rate of 3.75 Mbps). Two Fibre Channel ports in the MediaStore 2000 connect directly to the MediaHawk 4000 Video Servers or the MediaMatrix Interconnect. The MediaStore ensures reliability with RAID technology and dual, hot-swappable power supplies.

The **MediaMatrix Interconnect** provides Fibre Channel connectivity between the MediaHawk 4000 servers and the MediaStores enabling any content asset to be available to any MediaHawk video server for streaming. The MediaMatrix Interconnect is available in 8, 12, 16 and 20 port configurations and is deployed in sets of two for reliability.

The Concurrent MediaHawk Content Delivery System is commercially deployed worldwide, with over 1 million streams in 26 countries. With over 99.9% demonstrated session set up reliability, the platform is supported by system management, data collection and remote administration and is backed by Concurrent's 24x7 technical support organization.

480 streams 1,960 content storage hours	1,440 streams 7,840 content storage hours	2,880 streams 19,600 content storage hours
<i>For trial systems, distributed architectures and small deployments.</i> <i>2 servers - 1 storage - 0 switches</i>	<i>For mid-sized VOD systems.</i> <i>6 servers - 4 storage - 2 switches</i>	<i>For large, centralized system architectures.</i> <i>12 servers - 10 storage - 2 switches</i>

The MediaHawk Content Delivery System can be configured for virtually limitless streaming and storage capacity.

Specifications

MediaHawk 4000 - Max. Quantity 12

Input Ports

1000BaseT propagation

Streaming Outputs

Each MH4000 supports the following outputs:

Gigabit Ethernet throughput of 900 Mbps

Optional DVB-ASI

throughput = 150 Mbps per port, 8 ports

Singlemode, multimode optical expansion cards

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 - Max. Quantity 10

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 -60V DC

Line frequency: 50-60 Hz

Heat dissipation: 1,920 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) (3 RU) 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

Command and Control Port

10/100 BaseT

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 -48 to -60V DC

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

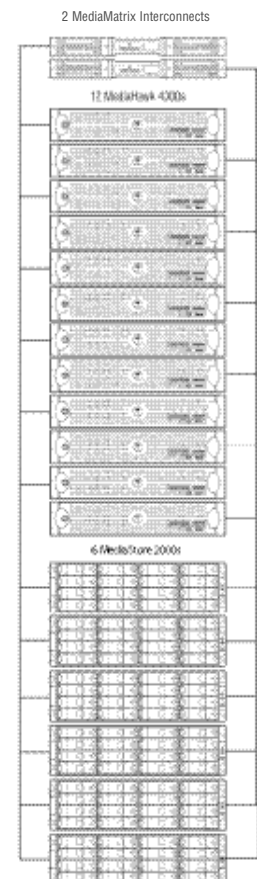
Dimensions: 1.75" (4.4cm) Height (1 Rack Unit)

x 17.0" (43.2cm) Width x 21.5" (54.6cm) Depth

Fits in 30" (76.2cm) or 36" (91.4cm) deep racks

Optional telco rack installation kits

Weight = 18 lbs (8.1647kg)



Sample configuration



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