

Virtual Monitor Wall System

Media Command Center (MCC)

Avitech offers the most extensive and flexible multi-source virtual monitor wall systems and presentation modules, enabling operations of any size to truly achieve media monitoring and presentation.

The Avitech Media Command Center (MCC) Virtual Monitor Wall module is based on the revolutionary **MEDI™** technology that is ideal for complex processing of multiple sources that are found in broadcast centers, video production facilities, cable/satellite operations, mobile production trucks, traffic monitoring, security, broadband distribution facilities and more.

Modular and scalable architecture

Instead of a all-in-one box, one-screen approach, MCC uses an architectural model that is suited for mission critical and dynamic environments. A variety of input modules can be mixed and matched to meet the precise requirements of any facility. The output of a group of sources is shown on a display device, typically an LCD/plasma display panel, rear projection cube, or projector.

The modular design of MCC means that facilities can optimize system designs for present and near term use, and economically add capabilities as increased future monitoring needs demand.

Quality Full Screen Display

The MCC is not limited to only scaling down the video, but also maximizes the screen for full video display. As an option, users may choose to drive full screen mode with the latest **DCDi™ technology** from Faroudja. The MCC delivers unparalleled full screen pictures for both

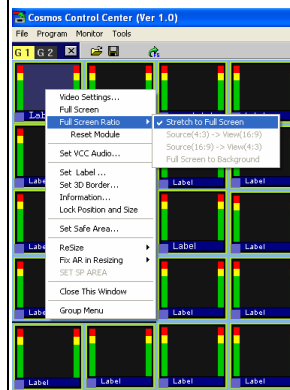


HD and SD signals with this technology.

Maximum Reliability

In a 24/7 environment, a monitoring system must be extremely dependable. The MCC is designed with no single point of failure. As the system is based on a distributed architecture, video will still pass through even in an unlikely event of a module or controller failure.

Intuitive User Friendly Interface



The operator can set up and configure the MCC Virtual Monitor Wall system with the intuitive Windows based graphical user interface. Computers and control devices that attached via LAN or serial connection can send commands and other pertinent information to the virtual monitor wall system. In addition, MCC supports an open protocol via the Cosmos control software for third party integration.

Key features

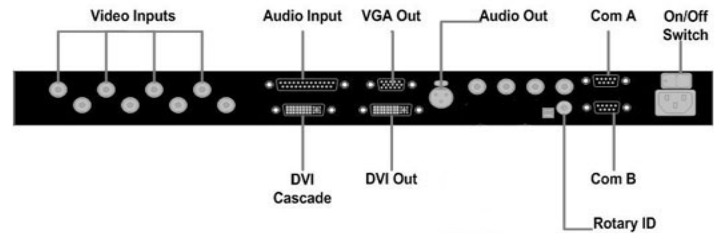
- Displays up to 120 inputs on a single display and up to 960 inputs across 8 displays
- Inputs can be composite, **component**, **component HD**, SD-SDI and HD-SDI
- Create the size of the system you need - from one display to large systems with multiple displays
- High resolution DVI and VGA output
- Output resolution can be 800x600 to 1920 x 1080
- XLR output for AES audio
- monitoring
- Industry leading full screen mode for SD, HD and composite video inputs using DCDi™ Image Enhancement Technology by Faroudja
- Balanced analog stereo, **balanced/unbalanced** AES/EBU and embedded audio can be displayed with on screen VU meters
- On-Screen labels, borders, clocks, counters and tally
- Communications/controls through RS232, 422, 485 and GPI
- SNMP support for alarm reporting on audio and video freeze/loss.
- DVI output passes cascaded upstream signals even if the module is without power
- Internal flash memory for storage of custom presets

Modules

MCC

Video

Each MCC module has 4 video inputs via BNC connectors. MCC modules can run as standalone modules or can be cascaded to accommodate more inputs. For multiple displays, each group requires at least one MCC. The 4 inputs can be composite, SD or HD. Any video window on the screen can be maximize to full screen.



UNIVERSAL series can handle SD-SDI, HD-SDI and Composite signals simultaneously. The **MCC UNIVERSAL** series drives full screen mode using the latest Faroudja's DCDi™ image enhancement technology. With DCDi™, MCC UNIVERSAL Module will deliver stunning full screen picture quality regardless of the input format. This is a must have if you want to view the best video quality available for virtual monitor wall systems.

PRODUCTION series can handle SD-SDI and composite signal simultaneously. The **Production** series implemented the latest Faroudja's DCDi™ image enhancement technology. With DCDi™, MCC Production series will deliver stunning picture quality regardless the size of the image. This is ideal for the production environment where image quality is at a priority.

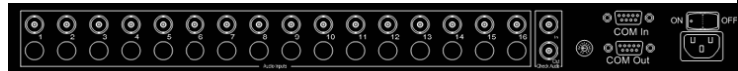
Audio

Four audio inputs in either Balanced Analog Stereo or AES/EBU are available for on screen audio meters. Digital embedded audio can also be extracted from the SD-SDI video stream. A balanced XLR output and audio looping allows you to monitor any audio source with an external device.

Communication

There are two different communication protocols available for the MCC. For a standalone quad display without an Avitech controller, an RS-232 option can be specified. If you are specifying a system with an Avitech controller, both COM A and COM B will come equipped with RS-485. COM B is used for cascading with other modules.

ACC



ACC audio modules are used for additional or standalone audio signals, such as radio application. ACC provides multiple inputs with support for stereo analog, AES/EBU or embedded audio. Audio appears as VU meters on the appropriate group display screen.

ACC-16(x): 16 input Audio VU meter
ACC-8(x): 8 input Audio VU Meter

VCC

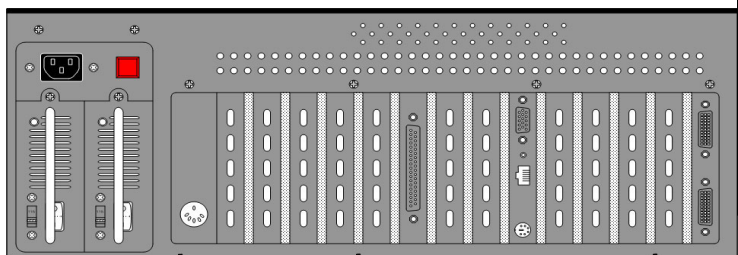


VCC modules are used for computer generated signals. Each VCC modules accepts 2 analog/DVI or HDTV (component) signals ranging from 640x480 (VGA) to 1600x1200 (UXGA) resolutions. Each VCC output consists of its inputs and any cascaded inputs from previous modules. Each module provides both DVI and VGA outputs.

VCC-2vDVI/IP: To be used with 2 VGA/DVI inputs.
VCC-4cDVI/IP: To be used with 2 VGA/DVI and 2 analog video inputs on the same module
VCC-2vHD-(x): To be used with 1 or 2 component HD inputs.
VCC-4cHD-(x): To be used with 1 or 2 HDTV and 2 analog video inputs on the same module

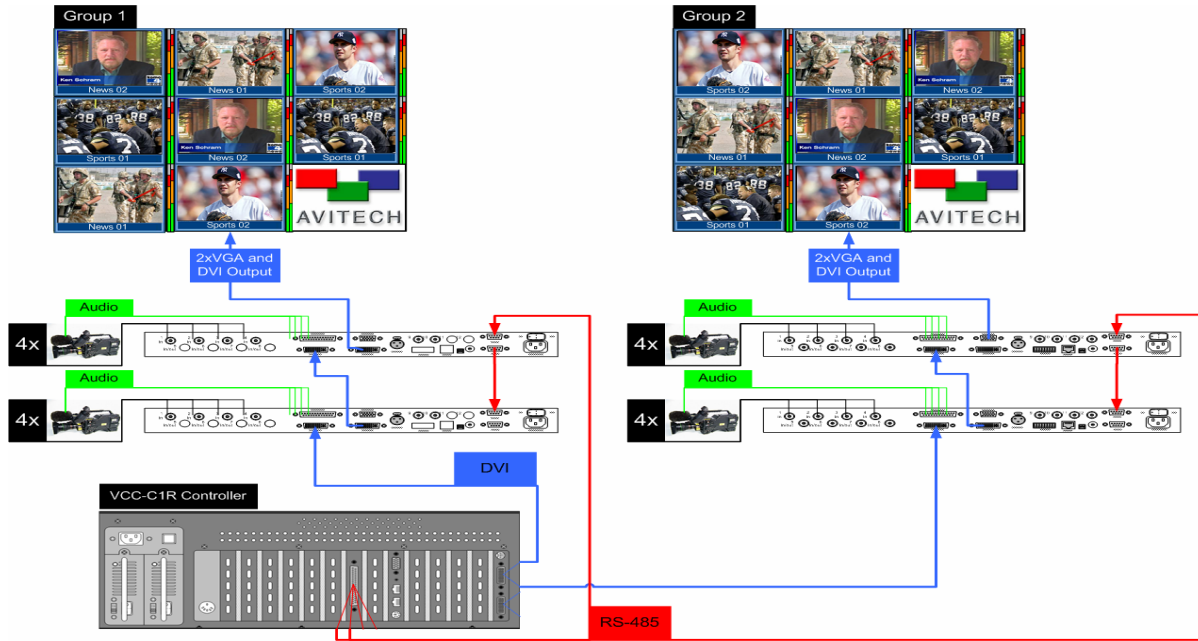
VCC-C1R

The VCC-C1R controller is a rack mountable industrial computer running under Microsoft Operating systems, either WinXP or Win2000. The standard controller is shipped with removable hard drives for ease of system backup and upgrades. The VCC-C1R also comes standard with hot-swappable redundant power supplies.



MCC Virtual Monitor Wall System

The MCC is built around the latest **MEDi™ technology**. This unique open and distributed architecture offers users a mix & match module platform, allowing you to create a customized view to perfectly suit your specific application needs



Specification

INPUT

Analog Video

Analog Composite, PAL or NTSC, 75 ohm BNC Connector

SD - SDI Video

SMPTE 259 serial digital video input, 75 ohm BNC Connector

HD - SDI Video

SMPTE 292 serial digital video input, 75 ohm BNC connectors

Analog Audio

4 pairs of balanced input per module via a high density connector

AES/EBU Audio

4 balanced/unbalanced input per module via a high density connector

Embedded Audio

4 SMPTE 272M video with embedded audio input per module

Computer Signals

2 analog RGB via 2 DB-15 female inputs; RGBHV, RGBS. 640x480 to 1600x1200

OR

2 DVI 29 pin female inputs 640x480 to 1600x1200

HDTV Signal (component)

2 component HD input via 2 DB-15 female inputs.

OUTPUT

Analog RGB via DB-15 female output, 852x480(16:9) to 1600x1200

AND

2 DVI 29 pin female output, 852x480(16:9) to 1920x1080

Communication via one DB-9 female output, RS-485

POWER

90—250VAC 50/60Hz < 25W

ENVIRONMENT

Temperature:

Operating: 41—122F (5-50C) non-condensing. Storage: 14-140F(-10-60C), non-condensing

Humidity:

Operating: 20-90%, non-condensing.

Storage: 10-90%, non-condensing

Altitude:

Operating: 0-10,000 ft

Storage: 0-20,000ft

DIMENSIONS

MCC/VCC: 8lbs, 3.6Kgs

VCC-C1R Controller: 35lbs, 15.4Kgs

	cm	in.
Height (1RU)	4.4	1.7
Depth	25.4	10
Width	48.3	19

	cm	in.
Height (4RU)	13.2	5.2
Depth	25.4	10
Width	48.3	19

Ordering Information

VIDEO SIGNALS

MCC4a

4 Composite Inputs

MCC4d

Up to 4 Auto-detect SD/composite Inputs

Production Module - Up to 4 Auto-detect SD/composite inputs with DCDi™ Image Enhancement Technology by Faroudja

UNIVERSAL Module - MCC4h

Up to 4 Auto-detect HD/SD/composite inputs with DCDi™ Image Enhancement Technology by Faroudja

VCC-2vHD-2

For use with 2 HDTV (component) input

AUDIO SIGNALS

MCC4_A

4 Balanced analog stereo audio

MCC4_D

4 Balanced/Unbalanced AES/EBU digital audio

MCC4_E

4 Digital Embedded audio

ACC-8a

8 input Audio VU meter for Analog Audio

ACC-8d

8 input Audio VU Meter for AES/EBU

ACC-8sdi

8 input Audio VU meter for embedded audio

ACC-16a

16 input Audio VU Meter for Analog Audio

ACC-16d

16 input Audio VU meter for AES/EBU

ACC-16sdi

16 input Audio VU Meter for embedded audio

COMPUTER GENERATED SIGNALS

VCC-2vDVI

For use with MCC modules with an Avitech Controller

COMMUNICATIONS

MCC4_ _ _ - RS232

RS-232 for COM A

MCC4_ _ _ - RS485

RS-485 for COM A and COM B

CONTACT CLOSURES

When equipped with the VCC-C1R and the DIO option, the system can have up to 144 GPI inputs.

CONTROLLER

VCC-C1R

1 XGA analog output for control monitor, 4 XGA DVI outputs for group displays, 1 Ethernet port, mouse/keyboard port, 4 port RS-485 card, dual hot-swappable power supplies, dual removable HDD, FDD, CD-Rom, Optical Mouse and Keyboard

VCC-CXU expansion option allows control of 8 group displays.

Options (Requires Controller)

VCC-DIO2 24 bit x 2 Digital I/O with terminal panels for 48 GPI inputs.

VCC-DIO4 24 bit x 4 Digital I/O with terminal panels for 96 GPI inputs.

VCC-DIO6 24 bit x 6 Digital I/O with terminal panels for 144 GPI inputs.

VITC-X Timecode synchronization option

LTC-X Timecode synchronization option

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