Data Sheet
VM1 Video Matrix
HD Component Video Distribution System

The VM1 Video Matrix works with a multiroom audio system to distribute analog component video over a single CAT-5e cable to each zone. Capable of passing high-definition component video signals up to 1080p, it also provides conversion of composite and S-video signals to component video in some configurations.

Designed for use with Russound RNET® multiroom solutions, the VM1 provides seamless integration with the Russound CAM and CAV systems. The VM1 also links directly to the Russound CAA system and works with other systems through serial control.

The Video Matrix is available in five configurations:

VM1 4 – Provides basic 4x4 switching from analog component video sources only.

VM1 4UC – Provides 4x4 component video switching with upconversion for two sources.

VM1 8 – Provides basic 8x8 switching from analog component video sources only.

VM1 8UC – Provides 8x8 component video switching with upconversion for two sources.

VM1 8UC2 – Provides 8x8 component video switching with upconversion for four sources.

The 4x4 configurations provide four source inputs and four zone outputs. The 8x8 configurations provide eight source inputs and eight zone outputs.

The UC and UC2 configurations convert S-video and composite video signals to component video for distribution while maintaining the original source resolution. The benefit is that the user doesn't have to select a composite or S-video input on the display to view the sources.

The VM1 has a rack-mountable 2U chassis and includes rack ears and a 24 VDC power supply.

VMR1 Receiver

The VMR1 Receiver is a single-gang in-wall device that installs in each room where component video distribution is desired. It receives the video signal from the VM1 through a single CAT-5e cable and provides component video RCA jacks for connection to the display with a component video cable.

Specifications

VM1 Video Matrix

Component video connectors:	3 RCA per input (RGB)
Zone output connectors:	8-pole modular RJ-45
System cable:	CAT-5e
Maximum cable length:	300 ft (90 m)
Video resolution:	Up to 1080p
System bandwidth:	40 MHz
Communication ports:	2 RJ-45 RNET Link 1 DB9 RS-232 1 USB 1.1
Power requirement:	24 VDC 2.5 A (adapter included)
Chassis dimensions:	17″ W x 3.43″ H x 13.15″ D (43.0 x 8.7 x 3.34 cm)
Weight:	11.65 lb (5.28 kg)

VM1 4 (Kit includes 4 VMR1 Receivers)

Component video inputs:	4
Zone outputs:	4

VM1 4UC (Kit includes 4 VMR1 Receivers)

Component video inputs:	4
S-video inputs:	2 mini-DIN (sources 1 and 4)
Composite video inputs:	2 RCA (sources 1 and 4)
Zone outputs:	4

VM1 8 (Kit includes 8 VMR1 Receivers)

Component video inputs:	8
Zone outputs:	8

VM1 8UC (Kit includes 8 VMR1 Receivers)

Component video inputs:	8
S-video inputs:	2 mini-DIN (sources 1 and 4)
Composite video inputs:	2 RCA (sources 1 and 4)
Zone outputs:	8

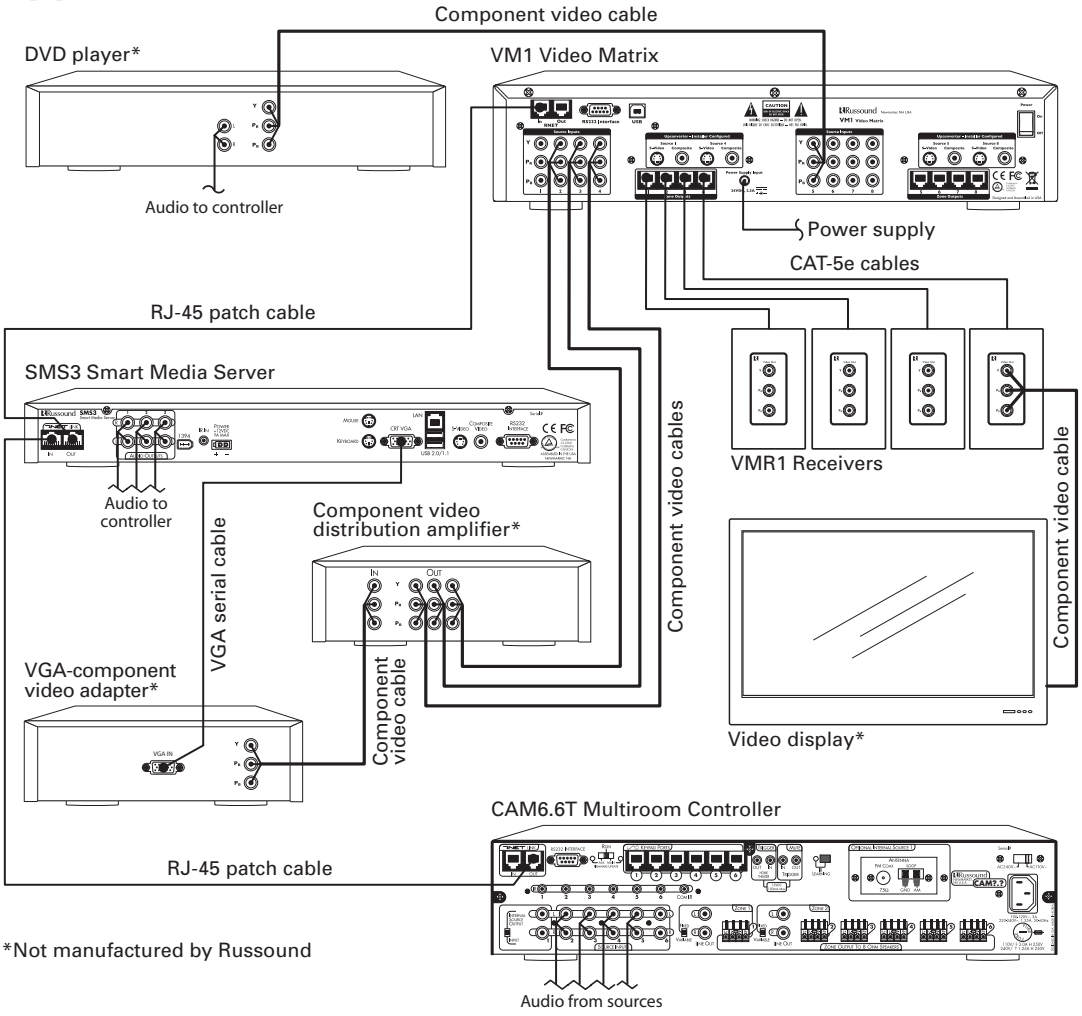
VM1 8UC2 (Kit includes 8 VMR1 Receivers)

Component video inputs:	8
S-video inputs:	4 mini-DIN (sources 1, 4, 5, and 8)
Composite video inputs:	4 RCA (sources 1, 4, 5, and 8)
Zone outputs:	8

VMR1 Video Matrix Receiver

Device type:	Single-gang in-wall Decora®
Input connector:	110 punch-down block
Output connectors:	3 RCA (RGB)
Dimensions:	1.75″ W x 4.17″ H x 1.31″ D (4.4 x 10.6 x 3.3 cm)
Weight:	2.2 oz (61.3 g)

Typical Application



*Not manufactured by Russound

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