

# Marshall Electronics

## MC-0105 Distribution Amplifier Users Guide

### 1 Product Overview

The **MC-0105** is used to convert Composite Video or Y/C (S-Video) (NTSC/PAL) to VGA. When placed in line with a monitor cable there is an added capability to switch the display between video and VGA signals.

### 2 Features

- Converts Composite Video or Y/C (Svideo ) to VGA (RGBHV) for display on projectors or data screens
- NTSC or PAL operation with automatic detection
- Illuminated power and input signal indicators
- Transforms interlaced 525/625 images to Progressive Scan
- Adaptive filtering removes NTSC interlace artifacts
- 2x over sampling for true color reproduction
- VGA output processed as 4:4:4/RGB
- Automatically scales NTSC 4:3 input to 640x480 Pixel resolution
- Automatically scales NTSC 16:9 input to 720x480 Pixel resolution
- Automatically scales Pal 4:3 input to 640x576 Pixel resolution
- Automatically scales Pal 16:9 input to 720x576 Pixel resolution
- Automatic Gamma correction
- Automatic color space conversion
- Switch between VGA and composite or Y/C inputs

### 3 Electrical Specifications

Signal Input	HD-15 VGA, Composite Video BNC 75Ω, Y/C Video 4 pin Mini- din
Signal Output	HD-15 VGA (27 Mhz for NTSC)
Sample Frequency	27mhz
K factor	<1%
Signal to Noise	>42 db
Dynamic gain/phase	<1% / <1.50
Cable length	Up to 350ft (100m) AGC compensated
Power required	6V D.C. supplied from external supply (Model V-PS6-1.2A)

### 4 Mechanical Specifications

Dimensions	4.75"W x 3.75"D x 1.0"H
Weight	0.55 lbs (0.25kg)
V-PS6-1.2A Power Supply Weight	0.20 lbs (0.10kg)

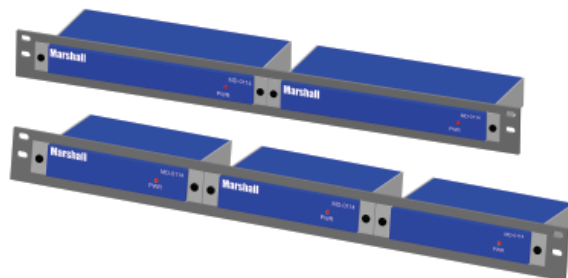
### 5 Optional Accessories



**Cable: RGB-5HD15-X**  
(X = Length in feet 6, 10, 15, 20)



**V-CB1 Desktop Stand**



#### V-CRM-2

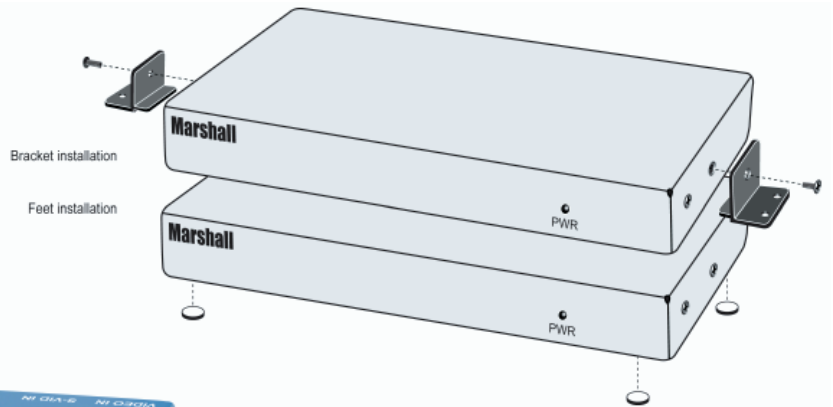
2U (1.75" tall) Conversion and Distribution 3 Module Bracket. Up to three Marshall Electronics 4.75" wide conversion or distribution modules can be securely installed into a standard EIA 19 inch rack with the V-CRM-3 mounting bracket. Every V-CRM-3 includes two blank panels for a clean cosmetic appearance.

#### V-CRM-3

Single RU (1.75" tall) Conversion and Distribution 2 Module Bracket. Two Marshall Electronics 7.72" wide or one 7.72" plus one 4.75" wide conversion or distribution modules can be securely installed into a standard EIA 19 inch rack with the V-CRM-2 mounting bracket. Every V-CRM-3 includes one blank panel and one 4.75" adapter for a clean cosmetic appearance.

## 6 Operational Setup

1. Unpack the MC-0105, and accompanying V-PS6-1.2A power supply and physically inspect for any damage that may have occurred during shipping. Also verify there is a small package with mounting accessories. Should there be any damage, immediately contact Marshall Electronics at 800-800-6608. If you are not located within the continental United States call +1 310-333-0606.
2. Install in your desired location. If wall mounting is required, attach the mounting brackets by removing the Phillips head screws on the sides, closest to the rear of the unit. (See below) Only one screw per side should be removed. Use the same screw to attach the bracket with the flange facing away from the side and parallel to the front of the MC-0105 metal case. The flange has two holes. For desktop use, apply the supplied rubber pads.
3. Connect required cables for signal input and output.
4. Plug the V-PS6-1.2A power supply into the A.C. source.
5. Attach twist lock power connection from V-PS6-1.2A power supply to the back of the unit.
6. Turn on the MC-0105 by depressing the power switch located on the front of the unit.



## 7 Switch Settings and Indicators

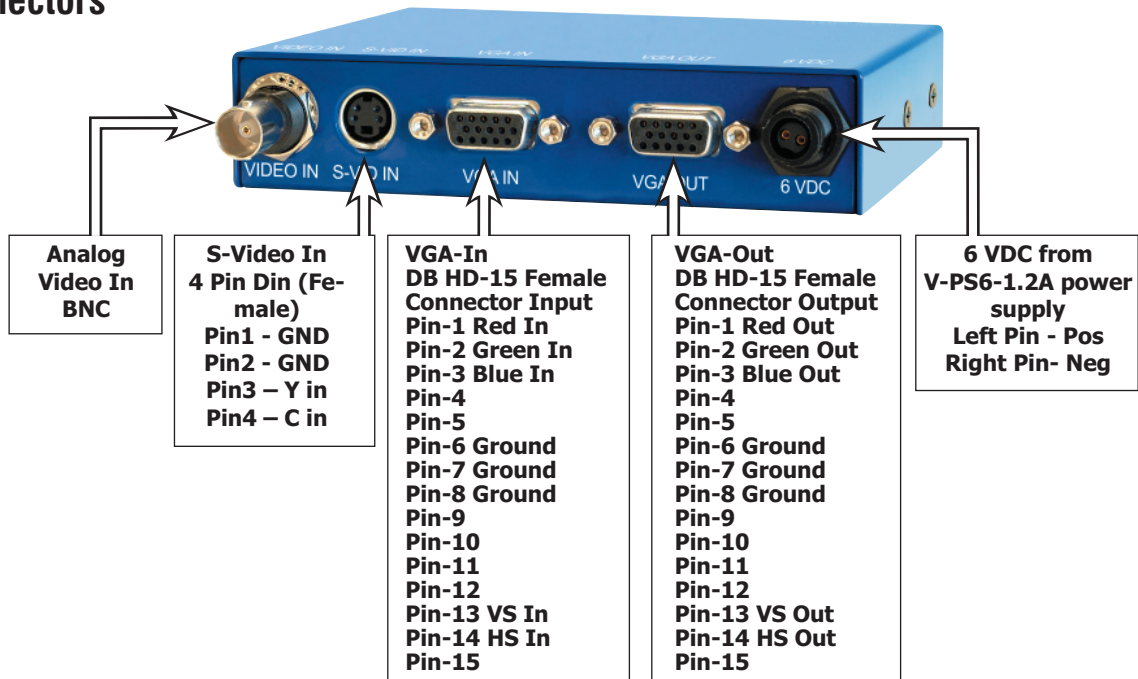


**Power On/Off switch with System indicator.**  
**Illuminates Red when Power is connected.**  
**Illuminates Green when the MC-0105 is switched on**

**Input Selection Indicators**

**Input Selection Toggle Switch**  
**Toggles input source to output selection**

## 8 Input Connectors



**Analog Video In BNC**

**S-Video In 4 Pin Din (Female)**  
 Pin1 - GND  
 Pin2 - GND  
 Pin3 - Y in  
 Pin4 - C in

**VGA-In DB HD-15 Female Connector Input**  
 Pin-1 Red In  
 Pin-2 Green In  
 Pin-3 Blue In  
 Pin-4  
 Pin-5  
 Pin-6 Ground  
 Pin-7 Ground  
 Pin-8 Ground  
 Pin-9  
 Pin-10  
 Pin-11  
 Pin-12  
 Pin-13 VS In  
 Pin-14 HS In  
 Pin-15

**VGA-Out DB HD-15 Female Connector Output**  
 Pin-1 Red Out  
 Pin-2 Green Out  
 Pin-3 Blue Out  
 Pin-4  
 Pin-5  
 Pin-6 Ground  
 Pin-7 Ground  
 Pin-8 Ground  
 Pin-9  
 Pin-10  
 Pin-11  
 Pin-12  
 Pin-13 VS Out  
 Pin-14 HS Out  
 Pin-15

**6 VDC from V-PS6-1.2A power supply**  
 Left Pin - Pos  
 Right Pin- Neg

**Note:** VGA inputs signals of any format will be output as the same format when VGA source is selected.  
 For best operation a multi-sync monitor should be used.

**Note:** NTSC signals are converted to 480x640 VGA resolution output. PAL signals are converted to 576x640 VGA resolution output.

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