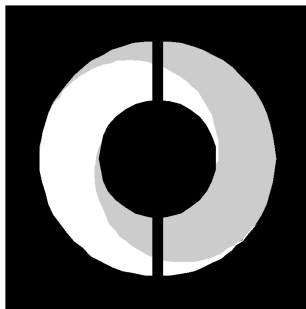


# ***CVD 9208***

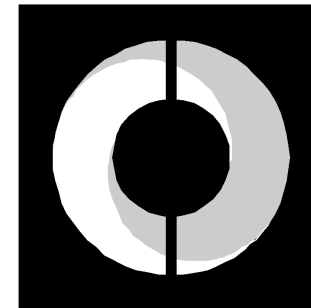
# ***CVD 9218***

***Composite / S-Video  
Distribution Amplifiers***



**C O V I D**

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**C O V I D**

# **User's Manual**

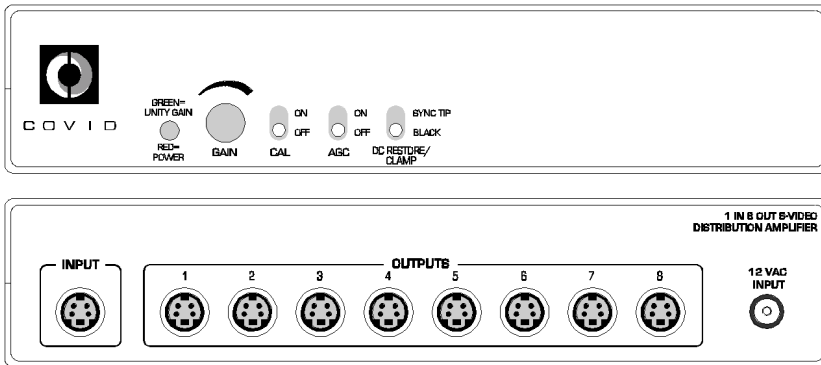
**DISCLAIMER**

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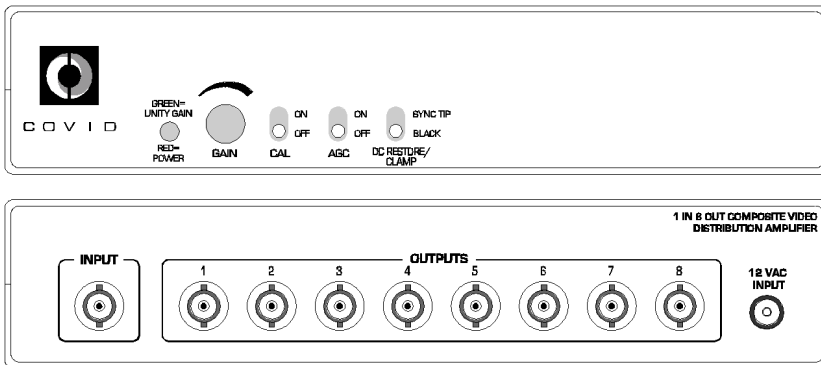
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## CVD 9208



## CVD 9218



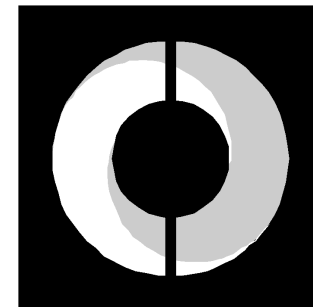
## CVD 9208

*1 Input, 8 Output  
S-Video Distribution Amplifier*

## CVD 9218

*1 Input, 8 Output  
Composite Video  
Distribution Amplifier*

**A Simple Solution for Distributing A Single  
Video Source to Several Displays**



C O V I D

## General Specifications

---

**CVD 9208 1 IN, 8 OUT S-VIDEO DISTRIBUTION AMPLIFIER**

---

### INPUT:

|                  |                           |
|------------------|---------------------------|
| Signal:          | S-Video                   |
| Connector:       | (1) 4-pin Mini-DIN Female |
| Video Impedance: | 75 Ohms Y/C               |
| Signal Level:    | 0.5 – 1.5 Vpp             |
| Coupling:        | AC                        |

### OUTPUT:

|                     |   |
|---------------------|---|
| Connectors:         | (8) 4-pin Mini-DIN Female                 |
| Video Impedance:    | 75 Ohms Y/C                               |
| Signal Level:       | Y: 0.5 – 1.5 Vpp<br>C: 143 mVpp – 429mVpp |
| Gain Range:         | -6dB to +6dB                              |
| Coupling:           | DC  |
| Bandwidth:          | 150 MHz                                   |
| Differential Gain:  | <0.1%                                     |
| Differential Phase: | <0.5 Degrees                              |

### CONTROL:

- Gain Control Knob
- Calibration Select Switch
- AGC Gain Select Switch
- Sync Clamp Select Switch

### DISPLAYS:

- Power On/Unity Gain Indicator

---

## PHYSICAL SPECIFICATIONS

---

|             |  |
|-------------|--|
| DIMENSIONS: | 1U High, 1/2 Rack Wide                       |
| (in)        | 1.75 H x 8.50 W x 6.00 D                     |
| (cm)        | 4.45 H x 21.59 W x 15.24 D                   |
| ENCLOSURE:  | Aluminum, Black, Texture Finish              |
| WEIGHT:     |  |
| Net:        | 1.6 lbs. / 0.73 kg                           |
| POWER:      |  |
| Input:      | 110 or 120 VAC Wall Mount,<br>12 VAC, 1A, UL |
| Dissipated: | 10.7 Watts                                   |

---

## General Specifications

---

### CVD 9218 1 IN, 8 OUT COMPOSITE VIDEO DISTRIBUTION AMPLIFIER

---

#### INPUT:

Signal: Composite Video  
Connectors: (1) BNC Female  
Video Impedance: 75 Ohms  
Signal Level: 0.5 – 1.5 Vpp  
Coupling: AC

#### OUTPUT:

Connectors: (8) BNC Female  
Video Impedance: 75 Ohms  
Signal Level: 0.5 – 1.5 Vpp  
Gain Range: -6dB to +6dB  
Coupling: DC  
Bandwidth: 150 MHz  
Differential Gain: <0.1%  
Differential Phase: <0.5 Degrees

#### CONTROL:

Gain Control Knob  
Calibration Select Switch  
AGC Gain Select Switch  
Sync Clamp Select Switch

#### DISPLAYS:

Power On/Unity Gain Indicator

---

### PHYSICAL SPECIFICATIONS

---

DIMENSIONS: 1U High, 1/2 Rack Wide  
(in) 1.75 H x 8.50 W x 6.00 D  
(cm) 4.45 H x 21.59 W x 15.24 D  
ENCLOSURE: Aluminum, Black, Texture Finish  
WEIGHT: Net: 1.6 lbs. / 0.73 kg  
POWER: Input: 110 or 120 VAC Wall Mount,  
12 VAC, 1A, UL  
Dissipated: 8.1 Watts

---

## Contents

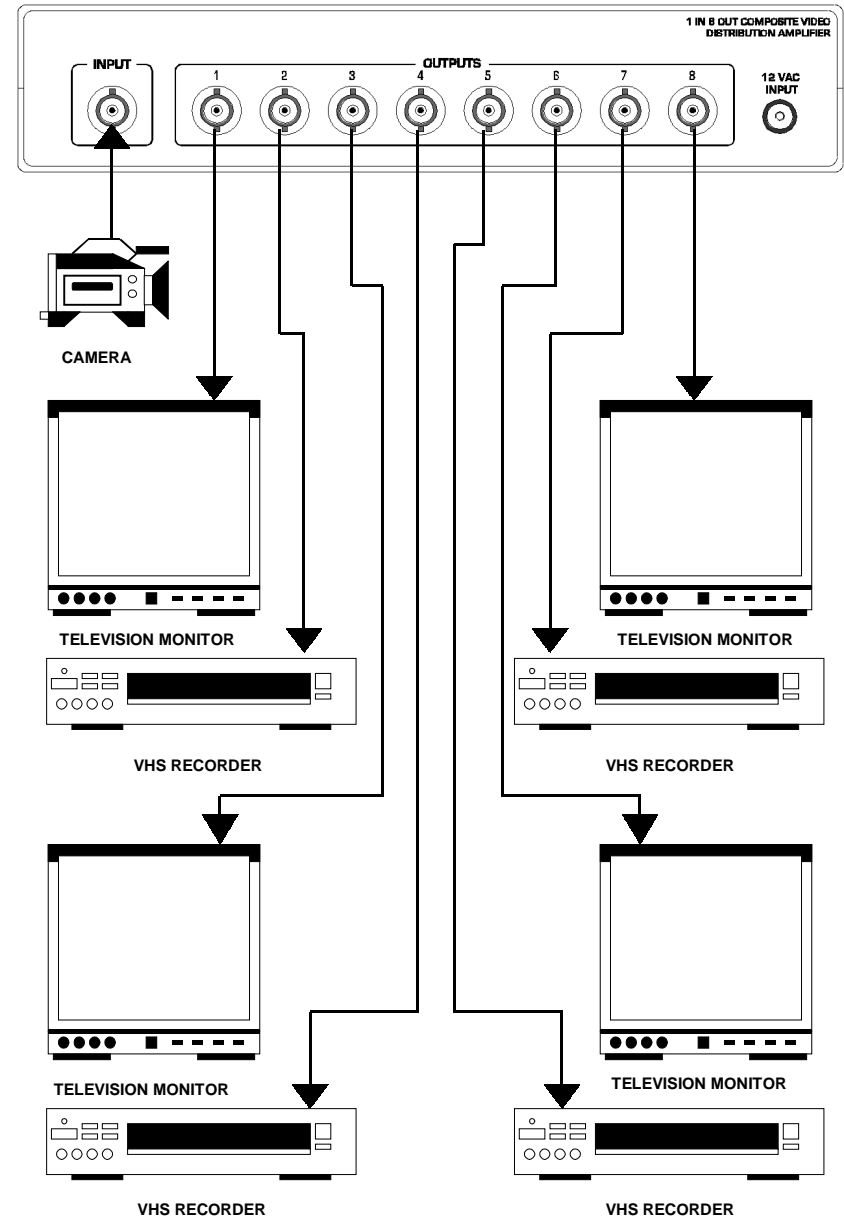
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# Introduction

Thank you for purchasing a CVD 9208/9218 video distribution amplifier. Covid's CVD 9208/9218 provides a simple solution for distributing a single video source to several displays. Some of the features of the CVD 9208/9218 video distribution amplifiers include:

- 8 Outputs on BNC Female (9218) or 4-pin Mini-DIN female connectors (9208).
- 1 Input on BNC Female (9218) connector or 4-pin Mini-DIN female connector (9208).
- Automatic Gain Control Selectable (AGC)
- Unity Gain Calibration Selectable
- Adjustable Gain Setting
- Black Level / Sync Tip Selectable

# Typical Configuration



## User Instructions

Connect up to eight displays to the outputs. Connect a video source to the input.

Turn the display monitors and the video source on.

Power up the unit and check if the LED indicator is lit. If it is red, power is applied and the video output signal is less than 1 Vpp. If the LED is green, power is applied and the output video signal is 1 Vpp.

Adjust the output as desired using the following information.

|           |  |
|-----------|--|
| AGC = OFF | LED turns green when gain = 1.   |
| CAL = OFF | Output level is determined by the gain pot and the input level.<br>$V_{out} = \text{Gain} \times V_{in}$<br>The amplification is set by the gain pot: -6dB to +6dB ( 0.5V to 2V ). |
| AGC = OFF | LED is green, gain control pot has no effect.  |
| CAL = ON  | Output level is determined by the input level.<br>$V_{out} = V_{in}$ , or unity gain   |
| AGC = ON  | LED is green when $V_{out} = 1V_{pp}$  |
| CAL = OFF | Output level is determined by the gain control pot.<br>Composite video: 0.5 Vpp to 1.5 Vpp<br>S-Video Y: 0.5 Vpp to 1.5 Vpp<br>C: 144 mVpp to 432 mVpp                             |
| AGC = ON  | LED is green, gain control pot has no effect.  |
| CAL = ON  | Output level is maintained at:<br>Composite video: 1 Vpp<br>S-Video: Y: 1 Vpp<br>C: 288 mVpp   |

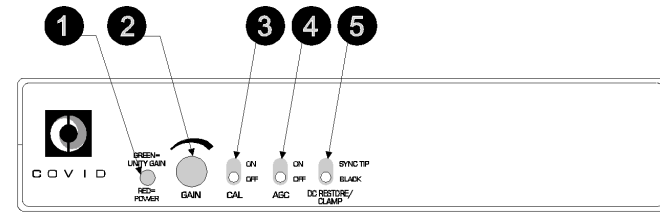
Note: An NTSC video input was assumed for the above values.

### Quick setup

AGC = ON  
 CAL = ON

This configuration set the output to 1 Vpp regardless of the input signal.

## Panel Descriptions

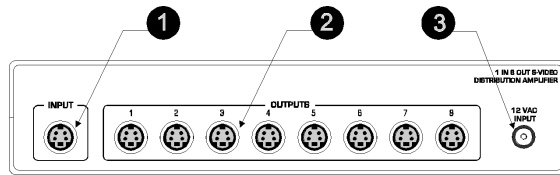


FRONT PANEL LAYOUT

### FRONT PANEL

- 1. POWER ON:** The LED illuminates red when power is applied to the unit and green if gain is set to Unity gain.
- 2. GAIN CONTROL KNOB:** Sets the gain of the outputs if Gain Cal switch is set to off.
- 3. GAIN CAL SWITCH:** Sets the gain of the outputs to unity gain, output matches input.
- 4. AGC GAIN SWITCH:** When AGC (Automatic Gain Control) is on, the AGC output level is adjustable using the Gain control knob if CAL switch is off. When the AGC switch is off, use the gain control knob and CAL switch to set gain.
- 5. SYNC TIP SELECT SWITCH:** Sets the sync tip clamp to 0 VDC or black level to 0 VDC.

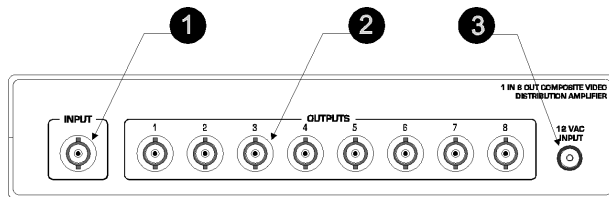
## Panel Descriptions



*CVD 9208 REAR PANEL LAYOUT*

### REAR PANEL

1. **INPUT:** One 4-Pin Mini-DIN Female connector provided to connect to video source.
2. **OUTPUTS:** Eight 4-Pin Mini-DIN Female connectors provided to connect to a video displays.
3. **AC IN:** 12VAC power input jack.



*CVD 9218 REAR PANEL LAYOUT*

### REAR PANEL

1. **INPUT:** One BNC Female connector provided to connect to video source.
2. **OUTPUTS:** Eight BNC Female connectors provided to connect to a video displays.
3. **AC IN:** 12VAC power input jack.

## Operational Setup

Turn off all equipment before connecting or removing cable connections.

1. Connect up to eight video output source signals to the desired displays.
2. Connect the video source to the input.
3. Power up the unit and check power on LED indicator.
4. Power on your peripheral equipment.
5. Adjust and calibrate outputs as desired.