

# USER MANUAL

## **Models:**

**CDA-SV20, 1:2 s-Video DA**

**CDA-V20, 1:2 Video DA**



**For maximum results, use Comprehensive Brand Premium High Resolution cables and connectors.**

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## 1 Introduction

Congratulations on purchasing your **CDA-SV20 1:2 s-Video DA** and/or **CDA-V20 1:2 Video DA**. These products are ideal for:

- Video duplication studios
- Rental/staging, CCTV, and home theater use

The package includes the following items:

- **CDA-SV20 1:2 s-Video DA** or **CDA-V20 1:2 Video DA**
- Power adapter (12V DC input) and this user manual

## 2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this user manual

## 3 Overview

The **CDA-SV20** and **CDA-V20** are micro-sized high performance 1:2 distribution amplifiers, as sections 4.1 and 4.2 describe, respectively.

To achieve the best performance:

- Connect only good quality connection cables, thus avoiding interference, deterioration in signal quality due to poor matching, and elevated noise-levels (often associated with low quality cables)
- Avoid interference from neighboring electrical appliances and position your machine away from moisture, excessive sunlight and dust



**Caution** – No operator-serviceable parts inside unit.

**Warning** – Use only the input power wall adapter that is provided with this unit.

**Warning** – Disconnect power and unplug unit from wall before installing or removing device or servicing unit.

## 4 Your CDA-SV20 and CDA-V20

This section describes the:

- **CDA-SV20 1:2 s-Video DA**, see section 4.1
- **CDA-V20 1:2 Video DA**, see section 4.2

## 4.1 Your CDA-SV20 1:2 s-Video DA

The **CDA-SV20 1:2 s-Video DA** is a micro-sized high performance 1:2 distribution amplifier for *s-Video* (Y/C) signals. The **CDA-SV20**:

- Accepts a single input and distributes it to two identical outputs using 4 pin connectors
- Has a bandwidth of 150MHz, ensuring that it remains transparent even in the most critical applications
- Has separate chrominance and luminance gain controls

Figure 1 and Table 1 define the **CDA-SV20 1:2 s-Video DA**:

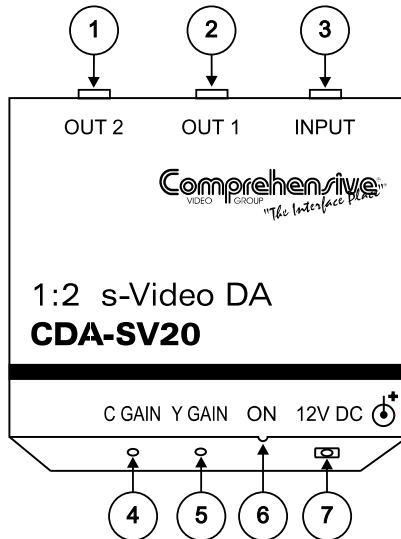


Figure 1: CDA-SV20 1:2 s-Video DA

Table 1: Features and Functions of the CDA-SV20 1:2 s-Video DA

#	Feature	Function
1	OUT 2 4p Connector	Connects to s-Video acceptor 2
2	OUT 1 4p Connector	Connects to s-Video acceptor 1
3	INPUT 4p Connector	Connects to the s-Video source
4	C GAIN Trimmer	Adjusts <sup>1</sup> the chroma (chrominance) output level
5	Y GAIN Trimmer	Adjusts <sup>1</sup> the luma (luminance) output level
6	ON LED	Illuminates when receiving power
7	12V DC	+12V DC connector for powering the unit

<sup>1</sup> Insert a screwdriver into the hole and carefully rotate it, to trim the level

## 4.2 Your CDA-V20 1:2 Video DA

The **CDA-V20 1:2 Video DA** is a micro-sized high performance 1:2 distribution amplifier for composite video signals. The **CDA-V20**:

- Accepts a single input and distributes it to 2 identical outputs using BNC connectors
- Has a bandwidth of 470MHz, ensuring that it remains transparent even in the most critical applications
- Has gain and equalization (EQ.) controls to compensate for cable losses

Figure 2 and Table 2 define the **CDA-V20 1:2 Video DA**:

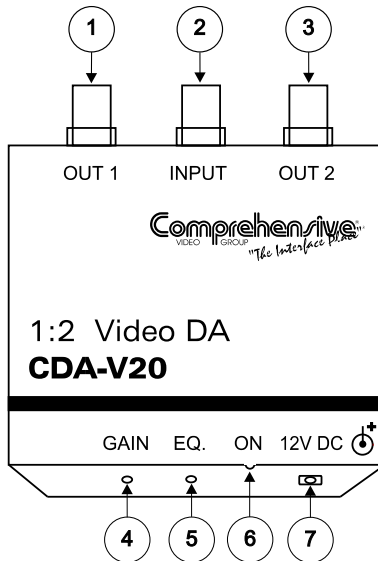


Figure 2: CDA-V20 1:2 Video DA

Table 2: Features and Functions of the CDA-V20 1:2 Video DA

#	Feature	Function
1	OUT 1 BNC Connector	Connects to composite video acceptor 1
2	INPUT BNC Connector	Connects to the composite video source
3	OUT 2 BNC Connector	Connects to the composite video acceptor 2
4	GAIN Trimmer	Adjusts <sup>1</sup> the video signal level for outputs 1 and 2
5	EQ. Trimmer	Adjusts <sup>1</sup> the cable compensation equalization level
6	ON LED	Illuminates when receiving power
7	12V DC	+12V DC connector for powering the unit

<sup>1</sup> Insert a screwdriver into the hole and carefully rotate it, to trim the level

## 5 Connecting the CDA-SV20 and CDA-V20

This section describes how to connect the:

- **CDA-SV20** 1:2 s-Video DA, see section 5.1
- **CDA-V20** 1:2 Video DA, see section 5.2

### 5.1 Connecting the CDA-SV20 1:2 s-Video DA

To connect the **CDA-SV20** 1:2 s-Video DA, as the example in Figure 3 illustrates, connect the following<sup>1</sup>:

1. Connect an s-Video source (for example, an s-Video player) to the INPUT 4p connector.
2. Connect the 2 OUT 4p connectors to up to 2 acceptors, as follows:
  - The OUT 1 connector to acceptor 1 (for example, an s-Video recorder 1)
  - The OUT 2 connector to acceptor 2 (for example, an s-Video recorder 2)
3. Connect the 12V DC power adapter to the power socket and connect the adapter to the mains electricity.
4. Adjust the C and Y Gain levels, if required.

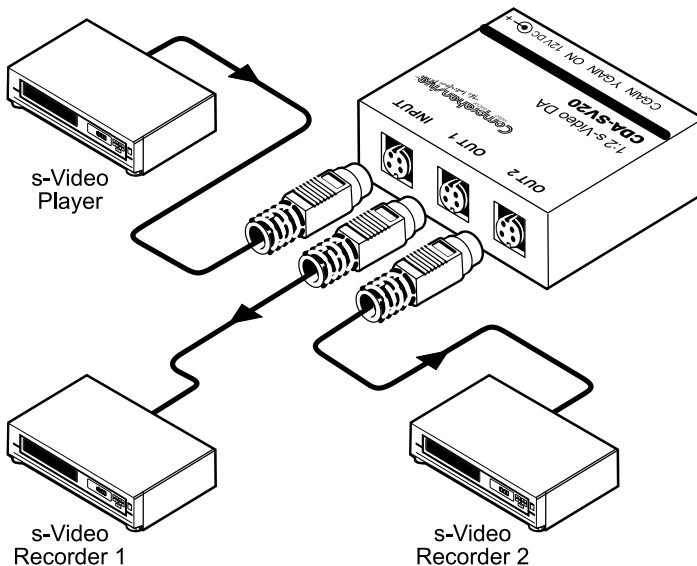


Figure 3: Connecting the CDA-SV20 1:2 s-Video DA

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<sup>1</sup> Switch OFF the power on each device before connecting it to your CDA-SV20. After connecting your CDA-SV20, switch on its power and then switch on the power on each device

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## 5.2 Connecting the CDA-V20 1:2 Video DA

To connect the **CDA-V20 1:2 Video DA**, as the example in Figure 4 illustrates, connect the following<sup>1</sup>:

1. Connect a composite video source (for example, a VCR) to the INPUT BNC connector.
2. Connect the 2 OUT BNC connectors to up to 2 composite video acceptors, as follows:
  - Connect the OUT 1 connector to video acceptor 1 (for example, a projector)
  - Connect the OUT 2 connector to video acceptor 2 (for example, a monitor)
3. Connect the 12V DC power adapter to the power socket and connect the adapter to the mains electricity.
4. Adjust the output signal level and/or cable compensation equalization level, if required.

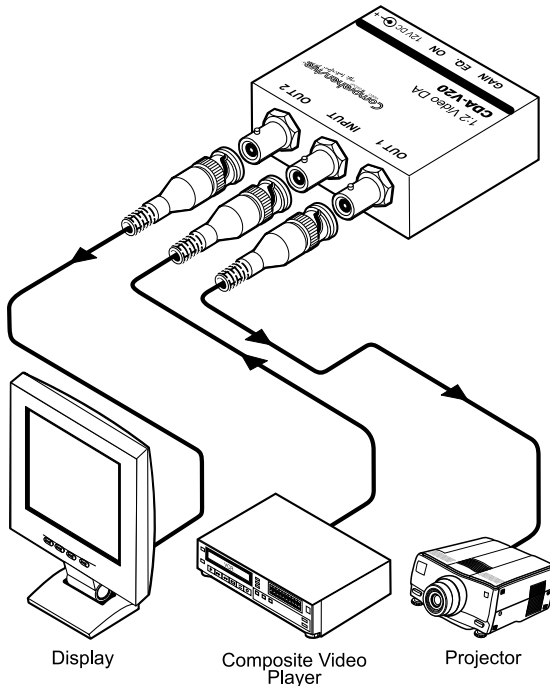


Figure 4: Connecting the CDA-V20 1:2 Video DA

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<sup>1</sup> Switch OFF the power on each device before connecting it to your CDA-V20. After connecting your CDA-V20, switch on its power and then switch on the power on each device

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## 6 Technical Specifications

Table 3: Technical Specifications<sup>1</sup> of the CDA-SV20 / CDA-V20

	<b>CDA-SV20</b>	<b>CDA-V20</b>
INPUTS:	1 s-Video, 1Vpp /75Ω(Y), 0.3Vpp /75Ω (C), on a 4p connector	1 Video, 1Vpp /75Ω on a BNC connector
OUTPUTS:	2 s-Video, 1Vpp /75Ω(Y), 0.3Vpp /75Ω (C), on 4p connectors	2 Video, 1Vpp /75Ω on BNC connectors
MAX. OUTPUT LEVEL:	2 Vpp	2 Vpp
BANDWIDTH (-3dB):	150MHz	470MHz
DIFF. GAIN:	< 0.03%	0.05%
DIFF. PHASE:	0.03 Deg.	0.05 Deg.
K-FACTOR:	<0.05%	<0.05%
S/N RATIO:	78dB	76dB
CONTROLS:	Gain: -1.9dB to +4.9dB (Y and C)	Gain: -1.2dB to +6dB, EQ.: 0 to + 7.5dB, 50 MHz
COUPLING:	AC	
POWER SOURCE:	12VDC, 30mA	
DIMENSIONS:	6 cm x 6.5 cm x 2.5 cm (2.36" x 2.56" x 1") W, D, H	
WEIGHT:	0.14 kg (0.31 lbs.) approx.	
ACCESSORIES:	Power supply, mounting bracket	

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<sup>1</sup> Specifications are subject to change without notice

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