

# ASTEL

## CCTV



# TD 3264

## VIDEO DISTRIBUTION AMPLIFIER

---

OPERATING INSTRUCTIONS *v1.0*

# CONTENTS

Safety precautions .....	2
Preface.....	3
Features.....	3
Precautions .....	3
Controls and connectors .....	4
Front panel.....	4
Rear panel .....	4
Connections .....	5
Specifications.....	6
Installation.....	6
Jumper settings.....	6
Trimmer adjustments .....	9

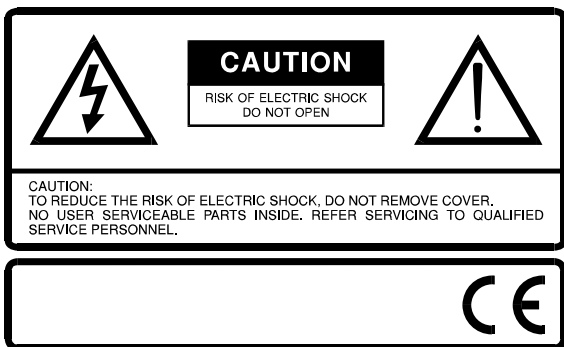
## SAFETY PRECAUTIONS

In order to prevent any fatal accidents caused by misoperation or mishandling of the video distribution amplifier, be fully aware of all the following precautions.

**WARNING:  
THIS APPARATUS MUST BE EARTHED**

**WARNING:**  
To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

This unit is produced to comply with Directives 93/68/EEC (IEC Publ.65) and 89/336/EEC.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

## PREFACE

The TD 3264 is a high quality video distribution amplifier with sixty-four video outputs. Internal jumpers allows the distribution of eight video input to eight video outputs, sixteen video inputs to four video outputs or thirty-two video inputs to two video outputs.

Standard BNC type input and output connectors enables the TD 3264 to be used with other CCTV amplifiers, switchers, cameras, monitors and video tape recorders.

## FEATURES

- 8 (16, 32) video inputs
- 8 x 8 (16 x 4, 32 x 2) video outputs
- internal programmable
- linear gain adjustment
- universal power supply
- rack mountable

## PRECAUTIONS

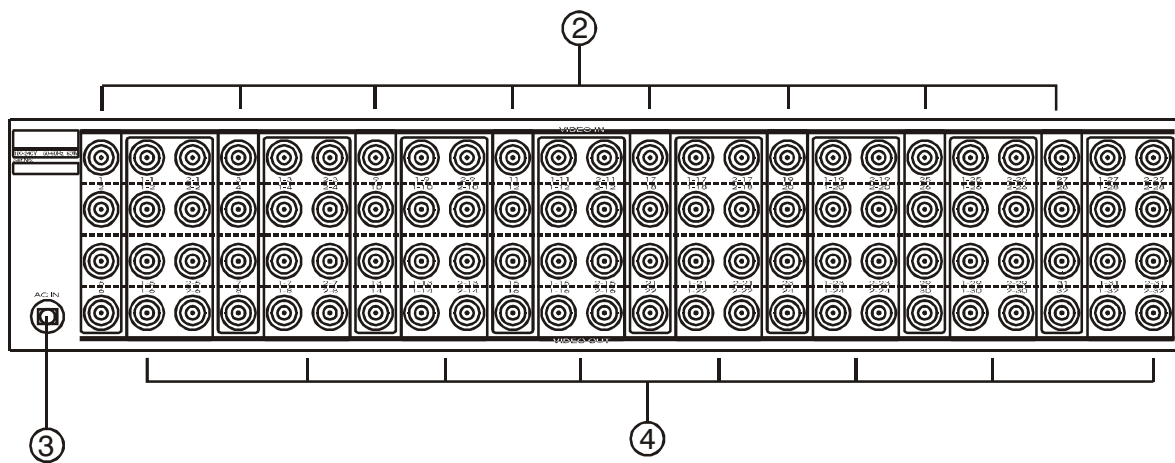
- Use only the power source specified on the rating label located on rear of the cabinet.
- When not using this unit for a long period of time, or when cleaning it, be sure to disconnect the power plug from the AC outlet.
- Do not drop metallic parts through slots. This action could permanently damage this unit. Do turn power off immediately and refer servicing to qualified service personnel.
- Avoid using this unit under the following conditions:
  - in extremely hot, cold or humid places,
  - in dusty places,
  - near appliances generating strong magnetic fields,
  - in places subject to direct sunlight, and
  - in badly ventilated places.
- Unplug this unit from the AC outlet and refer servicing to qualified service personnel under the following conditions:
  - when the power cord is frayed or plug is damaged
  - If the unit does not operate normally following the operating instructions
  - if the unit has been dropped or the cabinet has been damaged
  - when the unit exhibits a distinct change in performance.

# CONTROLS AND CONNECTORS

## FRONT PANEL



## REAR PANEL

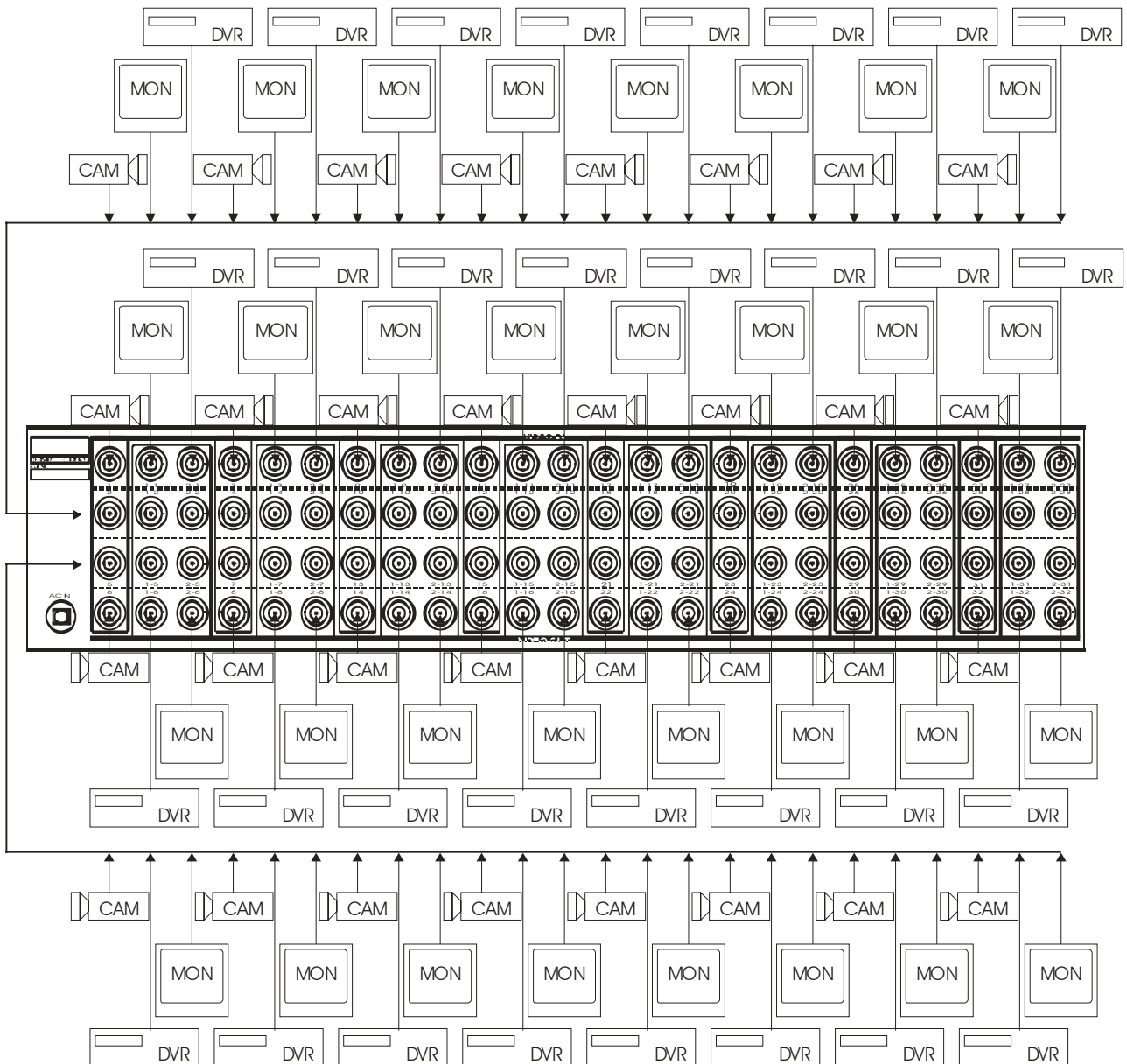


- (1) Power switch.
- (2) Video input connectors.

- (3) Power cord.
- (4) Video output connectors.

# CONNECTIONS

- Be sure to disconnect the power plug from the AC outlet before connecting to other equipment.
- Also refer to the instruction manual of the equipment to be connected.



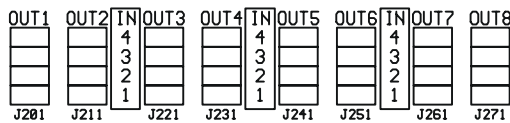
# SPECIFICATIONS

Video input	1-2Vpp/75Ω, BNC
Video output	1-2Vpp/75Ω, BNC
Video bandwidth	10MHz±3dB
Signal/noise ratio	>55dB
Power requirement	100 – 240Vac, 50/60Hz
Power consumption	30W max.
Dimensions	432x88x352mm
Weight	5.2 kg

# INSTALLATION

## JUMPER SETTINGS

- Board 1 – Video input 1 – 4
- Board 2 – Video input 5 – 8
- Board 3 – Video input 9 – 12
- Board 4 – Video input 13 – 16
- Board 5 – Video input 17 – 20
- Board 6 – Video input 21 – 24
- Board 7 – Video input 25 – 28
- Board 8 – Video input 29 – 32



- VIDEO OUTPUT 1-1 (Board 1)
- VIDEO OUTPUT 1-5 (Board 2)
- VIDEO OUTPUT 1-9 (Board 3)
- VIDEO OUTPUT 1-13 (Board 4)
- VIDEO OUTPUT 1-17 (Board 5)
- VIDEO OUTPUT 1-21 (Board 6)
- VIDEO OUTPUT 1-25 (Board 7)
- VIDEO OUTPUT 1-29 (Board 8)

JUMPER	VIDEO INPUT (Board 1-2-3-4-5-6-7-8)			
	1-5-9-13-17-21-25-29	2-6-10-14-18-22-26-30	3-7-11-15-19-23-27-31	4-8-12-16-20-24-28-32
OUT1 - J201				

- VIDEO OUTPUT 2-1 (Board 1)
- VIDEO OUTPUT 2-5 (Board 2)
- VIDEO OUTPUT 2-9 (Board 3)
- VIDEO OUTPUT 2-13 (Board 4)
- VIDEO OUTPUT 2-17 (Board 5)
- VIDEO OUTPUT 2-21 (Board 6)
- VIDEO OUTPUT 2-25 (Board 7)
- VIDEO OUTPUT 2-29 (Board 8)

JUMPER	VIDEO INPUT (Board 1-2-3-4-5-6-7-8)			
	1-5-9-13-17-21-25-29	2-6-10-14-18-22-26-30	3-7-11-15-19-23-27-31	4-8-12-16-20-24-28-32
OUT2 - J211				

**VIDEO OUTPUT 1-2** (Board 1)  
**VIDEO OUTPUT 1-6** (Board 2)  
**VIDEO OUTPUT 1-10** (Board 3)  
**VIDEO OUTPUT 1-14** (Board 4)  
**VIDEO OUTPUT 1-18** (Board 5)  
**VIDEO OUTPUT 1-22** (Board 6)  
**VIDEO OUTPUT 1-26** (Board 7)  
**VIDEO OUTPUT 1-30** (Board 8)

JUMPER	VIDEO INPUT (Board 1-2-3-4-5-6-7-8)			
	1-5-9-13-17-21-25-29	2-6-10-14-18-22-26-30	3-7-11-15-19-23-27-31	4-8-12-16-20-24-28-32
OUT3 - J221				

**VIDEO OUTPUT 2-2** (Board 1)  
**VIDEO OUTPUT 2-6** (Board 2)  
**VIDEO OUTPUT 2-10** (Board 3)  
**VIDEO OUTPUT 2-14** (Board 4)  
**VIDEO OUTPUT 2-18** (Board 5)  
**VIDEO OUTPUT 2-22** (Board 6)  
**VIDEO OUTPUT 2-26** (Board 7)  
**VIDEO OUTPUT 2-30** (Board 8)

JUMPER	VIDEO INPUT (Board 1-2-3-4-5-6-7-8)			
	1-5-9-13-17-21-25-29	2-6-10-14-18-22-26-30	3-7-11-15-19-23-27-31	4-8-12-16-20-24-28-32
OUT4 - J231				





**VIDEO OUTPUT 1-3** (Board 1)  
**VIDEO OUTPUT 1-7** (Board 2)  
**VIDEO OUTPUT 1-11** (Board 3)  
**VIDEO OUTPUT 1-15** (Board 4)  
**VIDEO OUTPUT 1-19** (Board 5)  
**VIDEO OUTPUT 1-23** (Board 6)  
**VIDEO OUTPUT 1-27** (Board 7)  
**VIDEO OUTPUT 1-31** (Board 8)

JUMPER	VIDEO INPUT (Board 1-2-3-4-5-6-7-8)			
	1-5-9-13-17-21-25-29	2-6-10-14-18-22-26-30	3-7-11-15-19-23-27-31	4-8-12-16-20-24-28-32
OUT5 - J241				





**VIDEO OUTPUT 2-3** (Board 1)  
**VIDEO OUTPUT 2-7** (Board 2)  
**VIDEO OUTPUT 2-11** (Board 3)  
**VIDEO OUTPUT 2-15** (Board 4)  
**VIDEO OUTPUT 2-19** (Board 5)  
**VIDEO OUTPUT 2-23** (Board 6)  
**VIDEO OUTPUT 2-27** (Board 7)  
**VIDEO OUTPUT 2-31** (Board 8)

JUMPER	VIDEO INPUT (Board 1-2-3-4-5-6-7-8)			
	1-5-9-13-17-21-25-29	2-6-10-14-18-22-26-30	3-7-11-15-19-23-27-31	4-8-12-16-20-24-28-32
OUT6 - J251				

**VIDEO OUTPUT 1-4** (Board 1)  
**VIDEO OUTPUT 1-8** (Board 2)  
**VIDEO OUTPUT 1-12** (Board 3)  
**VIDEO OUTPUT 1-16** (Board 4)  
**VIDEO OUTPUT 1-20** (Board 5)  
**VIDEO OUTPUT 1-24** (Board 6)  
**VIDEO OUTPUT 1-28** (Board 7)  
**VIDEO OUTPUT 1-32** (Board 8)

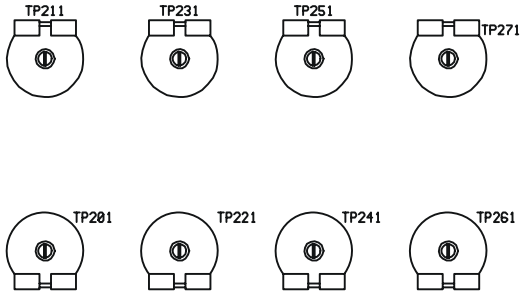
JUMPER	VIDEO INPUT (Board 1-2-3-4-5-6-7-8)			
	1-5-9-13- 17-21-25- 29	2-6-10-14- 18-22-26- 30	3-7-11-15- 19-23-27- 31	4-8-12-16- 20-24-28- 32
OUT7 - J261				

**VIDEO OUTPUT 2-4** (Board 1)  
**VIDEO OUTPUT 2-8** (Board 2)  
**VIDEO OUTPUT 2-12** (Board 3)  
**VIDEO OUTPUT 2-16** (Board 4)  
**VIDEO OUTPUT 2-20** (Board 5)  
**VIDEO OUTPUT 2-24** (Board 6)  
**VIDEO OUTPUT 2-28** (Board 7)  
**VIDEO OUTPUT 2-32** (Board 8)

JUMPER	VIDEO INPUT (Board 1-2-3-4-5-6-7-8)			
	1-5-9-13- 17-21-25- 29	2-6-10-14- 18-22-26- 30	3-7-11-15- 19-23-27- 31	4-8-12-16- 20-24-28- 32
OUT8 - J271				



## TRIMMER ADJUSTMENTS



LINEAR GAIN ADJUSTMENT	TRIMMER
VIDEO OUTPUT 1-1 VIDEO OUTPUT 1-5 VIDEO OUTPUT 1-9 VIDEO OUTPUT 1-13 VIDEO OUTPUT 1-17 VIDEO OUTPUT 1-21 VIDEO OUTPUT 1-25 VIDEO OUTPUT 1-29	TP201
VIDEO OUTPUT 2-1 VIDEO OUTPUT 2-5 VIDEO OUTPUT 2-9 VIDEO OUTPUT 2-13 VIDEO OUTPUT 2-17 VIDEO OUTPUT 2-21 VIDEO OUTPUT 2-24 VIDEO OUTPUT 2-29	TP211
VIDEO OUTPUT 1-2 VIDEO OUTPUT 1-6 VIDEO OUTPUT 1-10 VIDEO OUTPUT 1-14 VIDEO OUTPUT 1-18 VIDEO OUTPUT 1-22 VIDEO OUTPUT 1-26 VIDEO OUTPUT 1-30	TP221
VIDEO OUTPUT 2-2 VIDEO OUTPUT 2-6 VIDEO OUTPUT 2-10 VIDEO OUTPUT 2-14 VIDEO OUTPUT 2-18 VIDEO OUTPUT 2-22 VIDEO OUTPUT 2-26 VIDEO OUTPUT 2-30	TP231

LINEAR GAIN ADJUSTMENT	TRIMMER
VIDEO OUTPUT 1-3 VIDEO OUTPUT 1-7 VIDEO OUTPUT 1-11 VIDEO OUTPUT 1-15 VIDEO OUTPUT 1-19 VIDEO OUTPUT 1-23 VIDEO OUTPUT 1-27 VIDEO OUTPUT 1-31	TP241
VIDEO OUTPUT 2-3 VIDEO OUTPUT 2-7 VIDEO OUTPUT 2-11 VIDEO OUTPUT 2-15 VIDEO OUTPUT 2-19 VIDEO OUTPUT 2-23 VIDEO OUTPUT 2-27 VIDEO OUTPUT 2-31	TP251
VIDEO OUTPUT 1-4 VIDEO OUTPUT 1-8 VIDEO OUTPUT 1-12 VIDEO OUTPUT 1-16 VIDEO OUTPUT 1-20 VIDEO OUTPUT 1-24 VIDEO OUTPUT 1-28 VIDEO OUTPUT 1-32	TP261
VIDEO OUTPUT 2-4 VIDEO OUTPUT 2-8 VIDEO OUTPUT 2-12 VIDEO OUTPUT 2-16 VIDEO OUTPUT 2-20 VIDEO OUTPUT 2-24 VIDEO OUTPUT 2-28 VIDEO OUTPUT 2-32	TP271





ASTEL d.o.o., Dutovlje 138, 6221 Dutovlje, Slovenia  
Tel: +386 5 7310771, +386 5 7310772  
Fax: +386 5 7310789  
E-mail: [sales@astel-cctv.com](mailto:sales@astel-cctv.com)  
Web: [www.astel-cctv.com](http://www.astel-cctv.com)