

# Specifications — ADA 2 300/300HV, ADA 4/6 300 MX, ADA 2/4/6 300 MX HV

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## Video

Gain	ADA 2 300 /300 HV ..... Unity
	ADA 4/6 300 MX/MX HV . 0.7V or 1.0V, switch-selectable
Bandwidth	ADA 2 300 MX/MX HV ... 400 MHz (-3dB), fully loaded
	ADA 4/6 300 MX/MX HV . 300 MHz (-3dB), fully loaded

## Video input

Number/signal type	ADA 2 300, ADA 4/6 300 MX	1 RGBS, RGsB, RsGsBs, component video, S-video, composite video
	ADA 2 300 HV, ADA 4/6 300 MX HV	1 RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, composite video
Connectors	ADA 2 300, ADA 4/6 300 MX	4 BNC female
	ADA 2 300 HV, ADA 4/6 300 MX HV	5 BNC female
Minimum/maximum levels .....	Analog .....	0.3V to 1.5V p-p with no DC offset at unity gain
Impedance .....		75 ohms
Horizontal frequency	ADA 2 300, ADA 4/6 300 MX	15 kHz to 135 kHz
	ADA 2 300 HV, ADA 4/6 300 MX HV	15 kHz to 150 kHz
Vertical frequency	ADA 2 300/300 HV .....	30 Hz to 150 Hz
	ADA 4/6 300 MX/MX HV	15 Hz to 140 Hz
Return loss	ADA 2 300/300 HV .....	-42dB @ 5 MHz
	ADA 4/6 300 MX/MX HV	-38.5dB @ 5 MHz
AC/DC coupling .....		Yes, switch-selectable

## Video output

Number/signal type	ADA 2 300, ADA 4/6 300 MX	2/4/6 RGBS, RGsB, RsGsBs, component video, S-video, composite video
	ADA 2 300 HV, ADA 4/6 300 MX HV	2/4/6 RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, composite video
Connectors	ADA 2 300, ADA 4/6 300 MX	2/4/6 x 4 BNC female (depending on the model)
	ADA 2 300 HV, ADA 4/6 300 MX HV	2/4/6 x 5 BNC female (depending on the model)
Minimum/maximum levels .....		0.3V to 1.5V p-p
Impedance .....		75 ohms
Return loss	ADA 2 300/300 HV .....	-80dB @ 5 MHz
	ADA 4/6 300 MX/MX HV .	-44dB @ 5 MHz
DC offset	ADA 2 300/300 HV .....	±5mV maximum, AC coupled
	ADA 4/6 300 MX/MX HV .	±13mV maximum with input at 0 offset

## Sync

Input type .....	RGBHV (HV models only), RGBS, RGsB, RsGsBs
Output type .....	RGBHV (HV models only), RGBS, RGsB, RsGsBs
Input level .....	Analog or TTL ..... 0.5V to 5V p-p
Output level	
ADA 2 300/300 HV .....	5V p-p (TTL)
ADA 4 300 MX/MX HV ...	Analog or TTL (selectable) .... 1.0V, 4.0V p-p
ADA 6 300 MX/MX HV ...	Analog or TTL (selectable) ... 0.5V to 5V p-p
Gain .....	1V or 4V p-p, switch-selectable
Input impedance .....	510 ohms
Output impedance .....	75 ohms
Max input voltage .....	5V p-p
Input sensitivity .....	0.5V to 5.0V p-p
Max. propagation delay	
ADA 2 300/300 HV .....	60 nS
ADA 4/6 300 MX/MX HV ..	34.8 nS
Max. rise/fall time	
ADA 2 300/300 HV .....	4 nS
ADA 4/6 300 MX/MX HV ..	4.8 nS
Polarity .....	Positive or negative

## General

Power	
ADA 2 300/300 HV .....	100VAC to 240 VAC, 50/60 Hz, 2 watts, external, auto-switchable; to 9VDC, 1 A power supply.
All other models .....	100VAC to 240VAC, 50/60 Hz, internal, auto-switchable
ADA 4 300 MX/MX HV .....	7 watts
ADA 6 300 MX/MX HV .....	10 watts
Temperature/humidity .....	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non-condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non-condensing
Rack mount	
ADA 2 300/300 HV .....	No
All other models .....	Yes, with optional 2U shelf # 60-030-01, 2U front panel #60-030-10, or 3U front panel #60-126-01
Enclosure type .....	Metal
Enclosure dimensions	
ADA 2 300/300 HV .....	1.75" H x 4.6" W x 4.7" D 4.4 cm H x 11.7 cm W x 11.9 cm D (Depth excludes connectors.)
ADA 4/6 300 MX .....	3.4" H x 8.5" W x 6.3" D (2U high, <half rack width) 8.6 cm H x 21.6 cm W x 16.0 cm D (Depth excludes connectors.)
ADA 4/6 300 MX HV .....	4.3" H x 8.4" W x 6.3" D (<3U high, <half rack width) 10.8 cm H x 21.0 cm W x 16.0 cm D (Depth excludes connectors.)
Product weight	
ADA 2 300 .....	1.3 lbs (0.6 kg)
ADA 2 300 HV .....	1.4 lbs (0.6 kg)
ADA 4 300 MX .....	3.5 lbs (1.6 kg)
ADA 4 300 MX HV .....	4.0 lbs (1.8 kg)
ADA 6 300 MX .....	3.9 lbs (1.8 kg)
ADA 6 300 MX HV .....	4.4 lbs (2.0 kg)
Shipping weight	
ADA 2 300, ADA 2 300 HV	3 lbs (1.4 kg)
ADA 4 300 MX .....	5 lbs (2.3 kg)

ADA 4 300 MX HV .....	6 lbs (2.7 kg)
ADA 6 300 MX .....	6 lbs (2.7 kg)
ADA 6 300 MX HV .....	7 lbs (3.2 kg)
Vibration .....	ISTA/NSTA 1A in carton (International Safe Transit Association)
Listings .....	UL, CUL
Compliances .....	CE, FCC Class A, VCCI, AS/NZS, ICES
Warranty .....	3 years parts and labor

**NOTE** *Specifications are subject to change without notice.*

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