

OPHIT's Digital to Analog Converter

User's Manual : DDAX



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⚠ Precautions

⚠ WARNING

- Do not dismantle the housing or modify the product.

Dismantling the housing or modifying the product may result in electrical shock or burn.

- Refer all servicing to qualified service personnel.

Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards.

- Keep the product away from liquids.

Spilling into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls/spills into the housing, unplug the product immediately. Have the product checked by a qualified service engineer before using it again.

- Do not touch the Product with wet hands.

Touching the housing and plug with wet hands is dangerous and can cause electrical shock.

1.Introduction

DDAX, This unique DVI converter transports your PC's DVI signal to analog graphic signal so that analog display devices without DVI output can be connected to your PC and notebook with digital output easily and conveniently.

2. Description

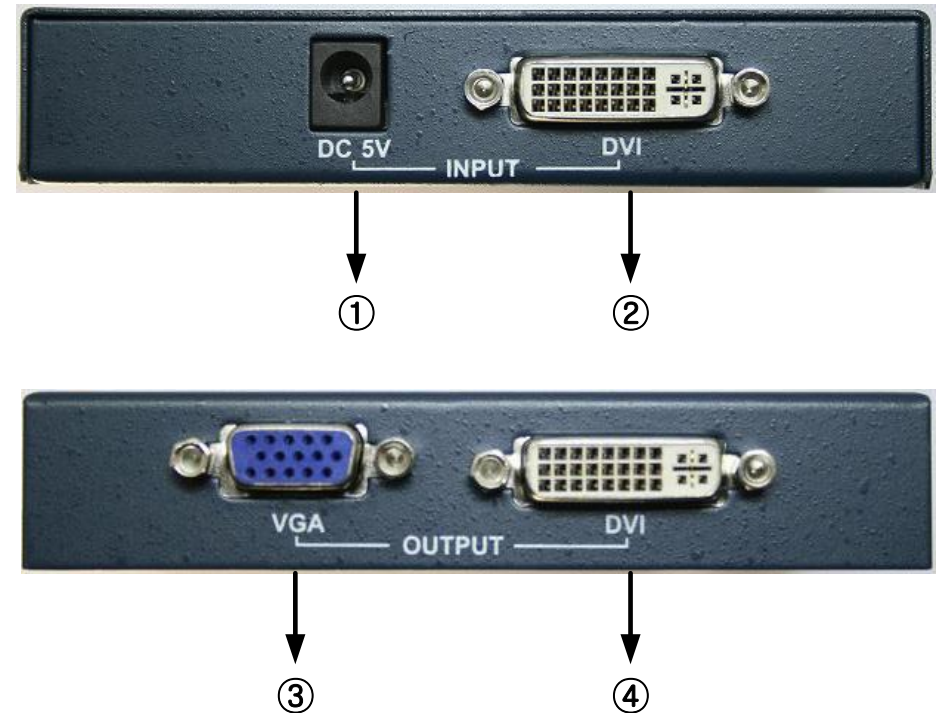
- Input Connector : 1 DVI receptacle
- Output : 1 VGA and 1 DVI receptacle
- Compatible with DVI standard by DDWG
- Power Supply : External DC +5V
- WUXGA, UXGA, SXGA,XGA, SVGA, VGA
- HDCP Compliant

3. Package Contents

Before you start installing DDAX series, please check the package contents

- DDAX
- Power Adapter(+5VDC ,2.0A)
- User's Manual

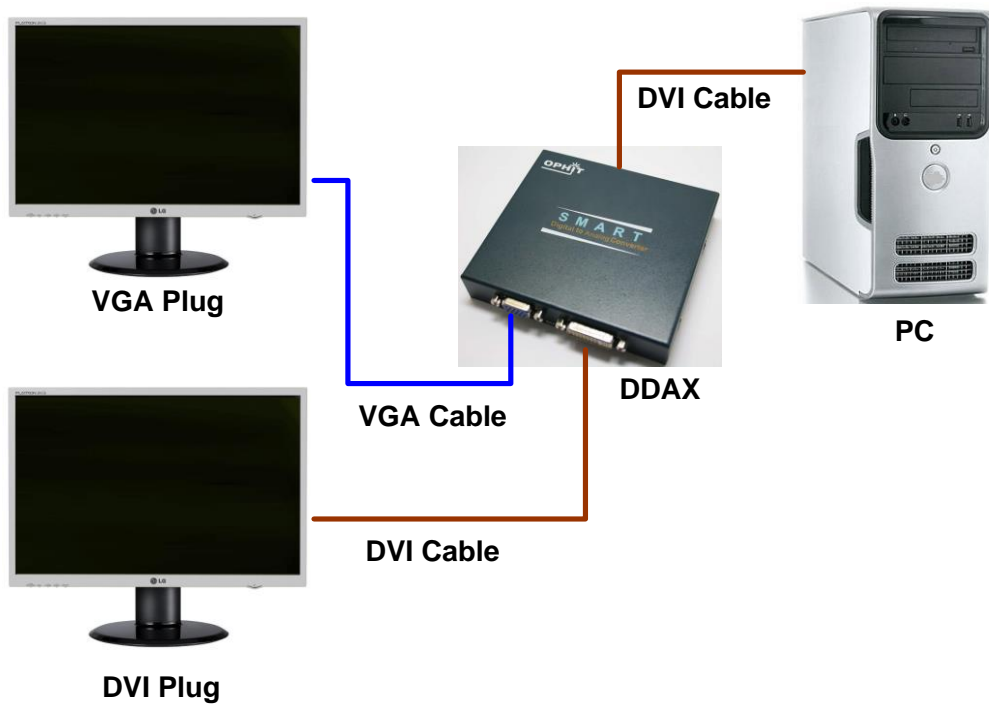
4. Part name



1	DC IN (+5V)
2	DVI INPUT
3	VGA OUTPUT
4	DVI OUTPUT

5. Connection

1. Connect the DVI signal from the PC to the DDAX
2. Connect the DVI Cable from the LCD monitor for Digital to the DDAX
3. Connect the monitor for VGA to DDAX
4. When input and output cable connection is completed, connected the DC power adapter.



6. Signal Pin Assignment

DDAX : Input (DVI)

Pin	Signal	Pin	Signal
1	T.M.D.S Data2-	13	No Connect
2	T.M.D.S Data2+	14	No Connect
3	T.M.D.S Data2 Shield	15	Ground(for +5V)
4	No Connect	16	Hot Plug Detect
5	No Connect	17	T.M.D.S Data0-
6	DDC Clock	18	T.M.D.S Data0+
7	DDC Data	19	T.M.D.S Data0 Shield
8	No Connect	20	No Connect
9	T.M.D.S Data1-	21	No Connect
10	T.M.D.S Data1+	22	T.M.D.S Clock Shield
11	T.M.D.S Data1 Shield	23	T.M.D.S Clock+
12	No Connect	24	T.M.D.S Clock-

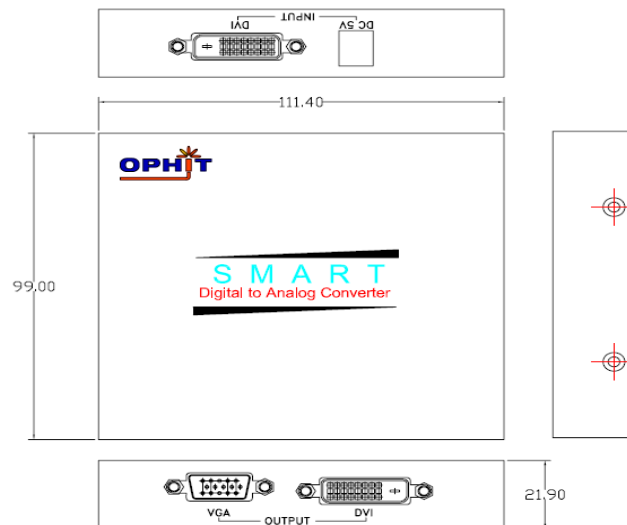
DDAX : Output 1 (VGA)

Pin	Signal	Pin	Signal
1	RED	9	No Connect
2	GREEN	10	GND
3	BLUE	11	GND
4	GND	12	No Connect
5	GND	13	Hsync
6	RGND	14	Vsync
7	GGND	15	No Connect
8	BGND		

DDAX : Output 2 (DVI)

Pin	Signal	Pin	Signal
1	T.M.D.S Data2-	13	No Connect
2	T.M.D.S Data2+	14	+5V
3	T.M.D.S Data2 Shield	15	Ground(for +5V)
4	No Connect	16	Hot Plug Detect
5	No Connect	17	T.M.D.S Data0-
6	DDC Clock	18	T.M.D.S Data0+
7	DDC Data	19	T.M.D.S Data0 Shield
8	No Connect	20	No Connect
9	T.M.D.S Data1-	21	No Connect
10	T.M.D.S Data1+	22	T.M.D.S Clock Shield
11	T.M.D.S Data1 Shield	23	T.M.D.S Data2-
12	No Connect	24	T.M.D.S Data2-

7. Drawing



8. Specifications

-Maximum Supporting Graphic Resolution :

WUXGA resolution (1920 x 1200)

* Detail Supporting Graphic Resolution Refer to next page

-Input Connector : 1 DVI receptacle

-Output Connector : DVI 24pin Receptacle and
HD-15 VGA female connector

-Power Consumption : 3.5 Watt

-Power Adaptor : 100-240 V with DC 5V, 2A

-Dimension : 111 x 99 x 22 (mm) **Weight :** 317(g)

9. Warranty

■ 1 (One) Year Warranty

Resolution	Frequency(Hz)	Scan Type	Picture Ratio
640 x 480	60Hz or 59.94Hz	Progressive	4:3
720 x 480	60Hz or 59.94Hz	Progressive	4:3
720 x 480	60Hz or 59.94Hz	Progressive	16:9
1280 x 720	60Hz or 59.94Hz	Progressive	16:9
1920 x 1080	60Hz or 59.94Hz	Inter laced	16:9
720(1440) x 480	60Hz or 59.94Hz	Inter laced	4:3
720(1440) x 480	60Hz or 59.94Hz	Inter laced	16:9
720(1440) x 240	60Hz or 59.94Hz	Progressive	4:3
720(1440) x 240	60Hz or 59.94Hz	Progressive	16:9
2880 x 480	60Hz or 59.94Hz	Inter laced	4:3
2880 x 480	60Hz or 59.94Hz	Inter laced	16:9
2880 x 240	60Hz or 59.94Hz	Progressive	4:3
2880 x 240	60Hz or 59.94Hz	Progressive	16:9
1440 x 480	60Hz or 59.94Hz	Progressive	4:3
1440 x 480	60Hz or 59.94Hz	Progressive	16:9
1920 x 1080	60Hz or 59.94Hz	Progressive	16:9
720 x 576	50Hz	Progressive	4:3
720 x 576	50Hz	Progressive	16:9
1280 x 720	50Hz	Progressive	16:9
1920 x 1080	50Hz	Inter laced	16:9
720(1440) x 576	50Hz	Inter laced	4:3
720(1440) x 576	50Hz	Inter laced	16:9
720(1440) x 288	50Hz	Progressive	4:3

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720(1440) x 288	50Hz	Progressive	16:9
2880 x 576	50Hz	Inter laced	4:3
2880 x 576	50Hz	Inter laced	16:9
2880 x 288	50Hz	Progressive	4:3
2880 x 288	50Hz	Progressive	16:9
1440 x 576	50Hz	Progressive	4:3
1440 x 576	50Hz	Progressive	16:9
1920 x 1080	50Hz	Progressive	16:9
1920 x 1080	24Hz	Progressive	16:9
1920 x 1080	25Hz	Progressive	16:9
1920 x 1080	30Hz	Progressive	16:9
2880 x 480	60Hz or 59.94Hz	Progressive	4:3
2880 x 480	60Hz or 59.94Hz	Progressive	16:9
2880 x 576	60Hz or 59.94Hz	Progressive	4:3
2880 x 576	60Hz or 59.94Hz	Progressive	16:9
1920 x 1080	50Hz, H = 31.25KHz	Inter laced	16:9
1920 x 1080	100Hz	Inter laced	16:9
1280 x 720	100Hz	Progressive	16:9
720 x 576	100Hz	Progressive	4:3
720 x 576	100Hz	Progressive	16:9
720(1440) x 576	100Hz	Inter laced	4:3
720(1440) x 576	100Hz	Inter laced	16:9
1920 x 1080	120Hz or 119.88Hz	Inter laced	16:9
1280 x 720	120Hz or 119.88Hz	Progressive	16:9



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Resolution	Frequency(Hz)	Scan Type	Picture Ratio
720 x 480	120Hz or 119.88Hz	Progressive	4:3
720 x 480	120Hz or 119.88Hz	Progressive	16:9
720(1440) x 480	120Hz or 119.88Hz	Inter laced	4:3
720(1440) x 480	120Hz or 119.88Hz	Inter laced	16:9
720 x 576	200Hz	Progressive	4:3
720 x 576	200Hz	Progressive	16:9
720(1440) x 576	200Hz	Inter laced	4:3
720(1440) x 576	200Hz	Inter laced	16:9
720 x 480	240Hz or 239Hz	Progressive	4:3
720 x 480	240Hz or 239Hz	Progressive	16:9
720(1440) x 480	240Hz or 239Hz	Inter laced	4:3
720(1440) x 480	240Hz or 239Hz	Inter laced	16:9
PC Graphic Resolution			
640 x 350	60Hz and 75Hz	Progressive	
640 x 400	60Hz and 75Hz	Progressive	
720 x 400	60Hz and 75Hz	Progressive	
640 x 480	60Hz and 75Hz	Progressive	
800 x 600	60Hz and 75Hz	Progressive	
848 x 480	60Hz and 75Hz	Progressive	
1024 x 768	60Hz and 75Hz	Progressive	
1152 x 864	60Hz and 75Hz	Progressive	
1280 x 768	60Hz and 75Hz	Progressive	
1280 x 960	60Hz and 75Hz	Progressive	

1280 x 1024	60Hz and 75Hz	Progressive	
1360 x 768	60Hz and 75Hz	Progressive	
1400 x 1050	60Hz and 75Hz	Progressive	
1440 x 900	60Hz and 75Hz	Progressive	
1600 x 1200	60Hz	Progressive	
1680 x 1050	60Hz	Progressive	
1792 x 1344	60Hz	Progressive	
1856 x 1392	60Hz	Progressive	
1920 x 1200	60Hz	Progressive	
1920 x 1440	60Hz	Progressive	

