

USER'S manual

Universal Video Converter

UVC-S300



1. Introduction	2
2. Features	2
3. Model Name	2
4. Panel Descriptions	3
5. Package Contents	3
6. Key name & Function	4
7. Video Cropping.....	4
8. Installation	7
9. Specification	8
10. Precaution	9
11. Warranty	10
12. Contact us	11

This Universal Video Converter (Model: UVC-S300) is powerful Multi-Format Video input/output Converter which is able to convert Digital to Analog. This unit has digital HDMI port as input formats and Composite (RCA & BNC) / S-Video / D-SUB / DVI as output formats.

The input video signal (HDMI) is converted 5(five) output formats as analog Composite (RCA and BNC) / S-Video / D-SUB and 1(one) digital DVI output. The unit has a unique function as cropping which is available in the S-Video /composite output formats.

The unit is designed with a stringent safety requirements such as the medical environment and other similarly restriction location.

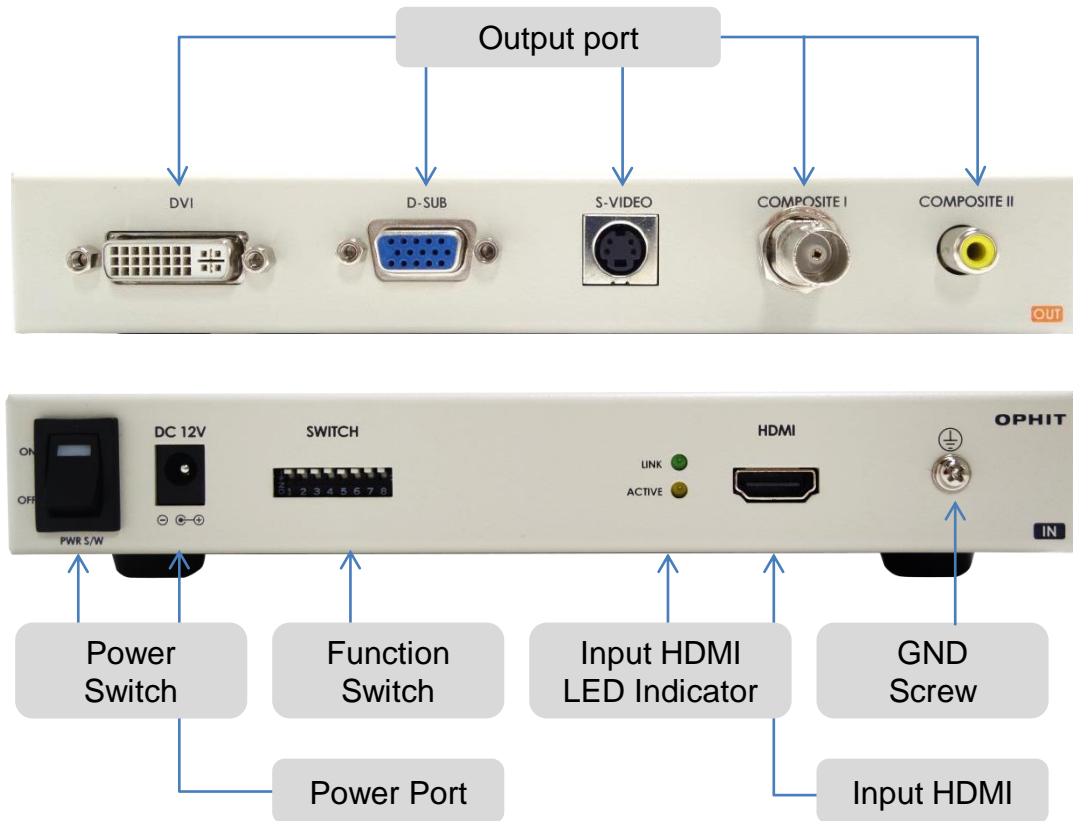
Features

- Convert Digital to Analog video signal
- Input format : HDMI
- 5 Output formats : D-Sub, DVI, S-Video, Composite (RCA and BNC)
- 5 Simultaneous Outputs.
- Output of DVI / D-SUB outputs to the same size screen when HDMI Inputs (NO Crop)
- Output of S-video / Composite outputs to down scaling when HDMI Input available for 7types of cropping in S-VIDEO /Composite output using by Dip Switch.
- Output of S-video / Composite outputs to down scaling when HDMI Inputs available for any cropping position in S-VIDEO /Composite output using by communication commands from system's I2C signal line.
- NTSC/PAL Output is selectable by Dip Switch (S-video / Composite)
- Available for RCA and BNC port output simultaneously as composite output.
- DVI 1.0 Compliant

Model Name

- UVC-S300

Panel Descriptions



Package Contents

Before installing UVC-S300, please check the package contents.

- Converter (UVC-S300)
- HDMI to HDMI cable (Length : 1.0 m)
- User's Manual

Key name & Function

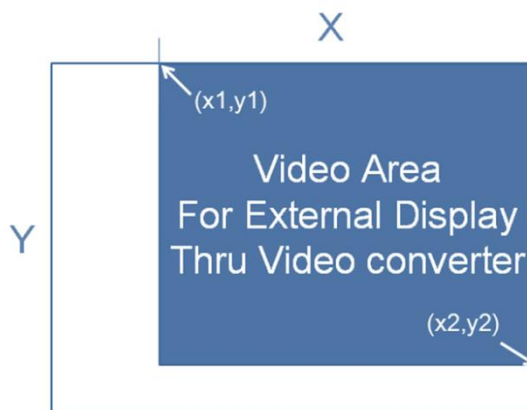


SW #	Function
1	Video clock setting for Sony monitor
2	S-Video/Composite 7 types Cropping area Select
3	
4	
5	S-Video/Composite 5 Signal Format Select (Current 2 Signal Format support)
6	
7	
8	Adjustable Cropping area select

<8Pin Selection DIP Switch Signal Assignment>

Video Cropping

User shall be selected one of 7 types cropping area or adjustable by communication command



S-Video/Composite 7 types Cropping area Selection

Coordinate #	(x1,y1).start	(x2,y2).end	Video Area	(X,Y)	Resolution
Coordinate 1	(305, 15)	(1264, 734)	960 x 720	(1280, 1024)	SXGA
Coordinate 2	(256, 1)	(1279, 768)	1024 x 768	(1280, 1024)	SXGA
Coordinate 3	(316.0, 0)	(1771, 818)	1456 x 819	(1920, 1080)	HD 1080
Coordinate 4	(224, 0)	(1023, 599)	800 x 600	(1024, 768)	XGA
Coordinate 5	(315,0)	(1919,919)	1605 x 920	(1920, 1080)	HD 1080
Coordinate 6	(355,0)	(1494,919)	1140 x 920	(1920, 1080)	HD 1080
Coordinate 7	(390,0)	(1634,932)	1245 x 933	(1920, 1080)	HD 1080

* Cropping image shall be fit into full display size for S-Video and Composite video

Video clock setting for Sony monitor

SW #	OFF	ON
SW1	Default	For Sony Monitor

* This function is change to frequency of resolution for compatibility.

- 1080p(1920x1080@60Hz): 148.352MHz@59.94Hz → 148.550MHz@60.02Hz
- SXGA(1208x1024@60Hz): 108.00MHz@60.01Hz → 108.05MHz@60.04Hz
- XGA(1024x768@60Hz): 65.00MHz@60.00Hz → 65.05MHz@60.05Hz

S-Video/Composite 7 types Cropping area Select

Coordinate #	SW2	SW3	SW4
Coordinate 1	OFF	OFF	OFF
Coordinate 2	ON	OFF	OFF
Coordinate 3	OFF	ON	OFF
Coordinate 4	ON	ON	OFF
Coordinate 5	OFF	ON	ON
Coordinate 6	ON	ON	ON
Coordinate 7	OFF	OFF	ON

* For detail Coordinate # information, refer to the table, 7Types Video Cropping Area in the section 3.2.5 Video Cropping

S-Video/Composite Output Format Selection

Function	SW5	SW6	SW7
NTSC	OFF	OFF	OFF
PAL	ON	OFF	OFF
Reserved	OFF	ON	OFF
Reserved	ON	ON	OFF
Reserved	OFF	OFF	ON
Reserved	ON	OFF	ON
Reserved	OFF	ON	ON
Reserved	ON	ON	ON

Adjustable Cropping Area Selection

SW #	OFF	ON
SW8	Disable	Enable

Installation

1. Connect HDMI source to UVC-S300 input port
2. Connect DVI, D-sub, S-video, Composite display to UVC-S300 output ports
3. Plug the 12V DC power supply
4. Select function switch (8pin Dip Switch)
5. Press the 'Power' button

Specification

- Input Connector : HDMI(female) x 1
- Output Connector : DVI 24Pin(female) x 1, D-sub(female) x 1
S-video(female) x 1, Composite(BNC x 1, RCA x 1)
- Supporting Resolution
 - ✓ Input : 1024x768 @50/60Hz
1280x1024 @50/60Hz
1920x1080 @50/60Hz
 - ✓ Output
 - DVI : 1024x768 @50/60Hz, 1280x1024 @50/60Hz, 1920x1080 @50/60Hz
(Convert and Bypass)
 - D-Sub: 1024x768 @50/60Hz, 1280x1024 @50/60Hz, 1920x1080 @50/60Hz
(Convert and Bypass)
 - S-video : NTSC-M or PAL-BGHI (Crop Image)
- Power Consumption : 9W (Max)
- Power supply :
 - 100-240 V 50-60Hz, DC 12V, 2.5A
- Dimension : 200mm(W) x 137mm(D) x 30mm(H), Tolerance: ± 0.1 mm
- Weight : 850g (UVC-S300 only, not including packing material and adapter)
- Environment
 - Operating Temperature Range : $+0^{\circ}\text{C} \sim +45^{\circ}\text{C}$
 - Storage Temperature Range : $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$

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.

- We, OPHIT hereby warrant the final purchase of our product as follows.
- In the case of troubles on our products, please contact the shop purchased.

One(1) year limited warranty

Our customers have right to be served with free charge when there is trouble in this product during one(1) year from the day purchased.

Out of warranty services

When you request services (in the case of non manufacturing defect but the troubles by misuse), may served with charge of follows.

- Defects of products caused by accident, disaster.
- Damages of products caused by the customer's carelessness or mistaken application.
- Damages of products caused by the application of parts or products not supplied or sold by our company.
- Damages of products and related defects caused by not our staff or the man or group not nominated by us for services.

OPHIT CO., LTD.

www.ophit.com

Head office

#908~911, 103-dong, Digital Empire II, 88 Sinwon-ro,
Yeongtong-gu, Suwon-city, Gyeonggi-do, 16681, KOREA

TEL : +82-31-695-5543, FAX : +82-31-695-5545

E-mail : support@ophit.com

Factory

3F Suntechnovil 77, Deogyong-daero 1471beon-gil,
Yeongtong-gu, Suwon-city, Gyeonggi-do, 16681, KOREA

TEL : +82-31-205-4191, FAX : +82-31-205-4197





상호 : ㈜오피트
기자재명칭 : Universal Video Converter
모델명: UVC-S300
제조사: ㈜ 오피트
제조국가: 한국
제조년월:

KCC-REM-OPH-UVC-S300

Rev. 0