

SPIDER M[™] HDMI and DVI to 3G-SDI Video Converter



User's Manual HDMS-200

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Doc No. : OC-HD210223 / Rev1.2

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Specification

ITEM	DESCRIPTION
Input Signal	HDMI, DVI
Output Signal	SDI
VIDEO Input format	RGB(444), YCbCr (444), YCbCr (422)
VIDEO Output format	YCbCr (422)
Input format AUDIO	Standard Analog Audio L/R
Power	5~24V DC
Power Consumption	7W
Dimension (WDH)	106.6 x 96 x 26.2 (mm)

Supporting resolution

SMPTE	Video Formats
SMPTE-425M	3G : 1920*1080p(60/59.94/50)
SMPTE-274M	HD : 1920*1080i (60/59.94/50)
SMPTE-274M	HD : 1920*1080p (30/29.97/25/24/23.98)
SMPTE-296M	HD : 1280*720p (60/59.94/50)
SMPTE-125M	SD : 601*525i (486_NTSC)
SMPTE-125M	SD : 601*625i (576_PAL)

Supporting resolution

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Output Format Format	A8010155	(PAL) ABOP 5169	1209220925	08-120 ⁸	99.99°	A	, ee, d	9 ⁰ 00	R ^A CR	\$02,0	oon oon o	802,080 9 59.9	, P
480i (NTSC)													
576i (PAL)													
480P													
576P													
720P24													
720P25													
720P30													
720P50													
720P59.94													
720P60													
1080i50													
1080i59.94													
1080i60													
1080p24													
1080p25													
1080p30													
1080psF24													
1080p50													
1080p59.94													
1080p60													
640x480p60													
800x600p60													
1024x768p60													
1280x1024p60													
1280x800p60													
1280x960p60													
1360x768p60													
1440x900p60													
1680x1050p60													
1600x1200p60													

Installation

STEP1

Plug the AC/DC adapter to AC inlet and connect to receptacle on the product.

STEP2 (HDMI)

Connect HDMI source to HDMI input port of HDMS-200 with HDM cable. If necessary, connect the audio cable to audio jack.

STEP2 (DVI)

Connect PC or DVI source to DVI input port of HDMS-200 with DVI cable. If necessary, connect the audio cable to audio jack.

Note.1

Please see the D/P switch function as below.



STEP3

Connect SDI display to SDI output port of HDMS-200 with SDI coaxial cable.

Note.2

HDMS-200 has two (2) SDI outputs.

Note.3

HDMS-200 does not have scaling up/down feature. It just converts HDMI or DVI to SDI format with same resolution and refresh ratio.

Firmware update

STEP1

Please "Off" D/P switch No.2 to set the firmware mode. Then, plug in the adaptor.

STEP2

Connect Service port of New HDMS-200 and PC using a download cable.

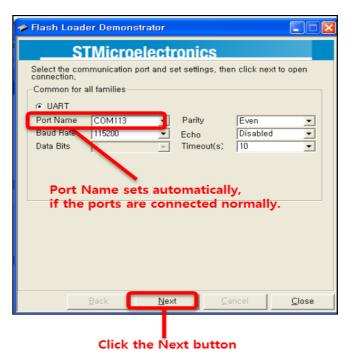
STEP3



Install the Flash Loader Demo file.

STEP4

Check the PortName and Click the Next button as below.



STEP5

Click the Next button as below

	Flash Loader Demonstrator	
🛹 Flash Loader Demonstrator	STMicroelectronics	
STMicroelectronics	Please, select your device in the target list Target STM32.High-density_512K PID (h) 0414 BID (h) NA Version 2.2	•
Remove protection	Flash Name Start add End addr Size F W. Page0 0.8 000000 0x.800007FF 0x8001(2K) C C Page1 0x.8000800 0x.800007FF 0x8001(2K) C C C Page2 0x.8001000 0x.80017FF 0x8001(2K) C C C Page2 0x.8001800 0x.80017FF 0x80012(X) C C C Page3 0x.8001800 0x.80017FF 0x80012(X) C C C Page4 0x.8001800 0x.80012(X) C	
	Legend : Protected I UnProtected	
Back Next Cancel Close	Back Dext Cancel	<u>C</u> lose

STEP6

Click 1, Open of 'Download to device' to select directory and file (hex. format) to be uploaded.

Flash Loader Demonstrator					
STMicroelectronics					
C Erase					
🕫 All 🔿 Selection 📖					
Download to device Download from file					
© Erase necessary pages © No Erase © Global Erase					
@ 8000000					
Apply option bytes					
C Upload from device Upload to file					
C Enable/Disable Flash protection					
ENABLE VRITE PROTECTION V					
C Edit option bytes					
Back Dext Cancel Close					

1-6 Firmware update (continued)

STEP7

Please check the file and Click the Next button as below

🛹 Flash Loader Demonstrator 📃 🗖 🔀					
STMicroelectronics					
C Erase					
C All C Selection					
Download to device					
₩₩192,168,1,253₩shareddocs₩DFCAST_WORK₩제품별 기술문/					
🗭 Erase necessary pages 🔿 No Erase 🔿 Global Erase					
Ø 8000000					
Apply option bytes					
C Upload from device					
C Enable/Disable Flash protection					
ENABLE VRITE PROTECTION V					
C Edit option bytes					
Back <u>Next</u> Cancel <u>C</u> lose					

STEP8

Then, the firmware will be uploaded and click the Close button, if it's completed.

Flash Loader Demonstrator						
S	STMicroelectronics					
Target Map file	STM32_High-density_512K STM32_High-density_512K, STmap					
Operation File name	DOWNLOAD ₩₩192,168,1,253₩shareddocs₩DFCAST_WORK₩제품별 기 술문서 ₩BRIDGE₩mini₩HH₩SW₩CPU₩Brdge_HH_130128,hex					
File size Status Time	97,26 KB (99592 bytes) 97,26 KB (99592 bytes) of 97,26 KB (99592 bytes) 00:00:51					
	Download operation finished successfully					
	Back Next Cancel	<u>C</u> lose				

STEP6

Please close the program and "On" D/P switch No.2 again to run it under new firmware.

1-7 Firmware update

Warranty Information

1 (One) Year Warranty

OPTICIS warrants OPTICIS HDMS-200 HDMI to 3G-SDI converter to be free from defects in workmanship and materials, under normal use and service, for a period of one (1) year from the date of purchase from OP TICIS or its authorized resellers.

If a product does not work as warranted during the applicable warranty period, OPTICIS shall, at its option and expense, repair the defective pr oduct or part, deliver to customer an equivalent product or part to replac e the defective item, or refund to customer the purchase price paid for t he defective product.

All products that are replaced will become the property of OPTICIS.

Replacement products may be new or reconditioned.

Any replaced or repaired product or part has a ninety (90) day warranty or the reminder of the initial warranty period, whichever is longer.

OPTICIS shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to OPTICIS for repair under warranty or not.

Warranty Limitation and Exclusion

OPTICIS shall have no further obligation under the foregoing limited warranty if the product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modifications, tampering, alterations, or service other than by OPTICIS or its authorized agents, causes other than from ordinary use or failure to properly use the Product in the application for which said Product is intended.

Troubleshooting

Problem	Remedy Actions				
Converter does not Operate	Make sure the 12V power supply is plugged firmly to DC receptacle and AC inlet. Check if the white LED light is on.				
No picture (or signal) Or Poor picture	 If you are using copper based HDMI or DVI cable, overall length should not exceed 20ft. Longer than this will result in no or poor picture quality. To extend beyond 20ft, please use fiber optical HDMI or DVI extension cables. Make sure all HDMI, DVI, SDI connectors are tightly secured to all HDMI, DVI, SDI ports. Loose plugging on the connectors will result in no or poor picture. Reboot the converter. 				
Incorrectly sized picture / resolution or No picture	Reset HDMS-200 by pressing the reset button.				

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Optolinks

Headquarters

46 Corporate Park #130 Irvine, CA 92606 949-701-4742 info@vigillink.com

For order support, please contact your Distributor or Reseller.

For technical support, check with the our website <u>www.vigillink.com</u> or contact <u>info@vigillink.com</u>