



XD-500

3G SDI to HDMI™ Converter

USER MANUAL

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Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating, or adjusting this product. Keep this manual for future reference.

Important Safety Note – Surge Protection Recommended

This product contains sensitive electronic components that may be damaged by electrical spikes, surges, lightning strikes, or static discharge. To protect and extend the service life of your equipment, we strongly recommend using a surge protection device.

Warranty Registration

Activate your warranty by registering your product at:

→ www.orei.com/register

Need Technical Support? We're Here to Help.

Our experienced Technical Support Team is available to answer your questions, offer expert advice, and help troubleshoot any issues to keep your project on track—on time and on budget.

Live Support Hours (US/Canada/Mexico):

🕒 Monday–Friday | 9:00 a.m. – 5:00 p.m. Central Time

Contact Us:

✉ Email: info@orei.com

📞 Phone: 877-290-5530

💬 Chat Live: www.orei.com

Send us an instant message—our team typically responds within moments during live support hours.

Introduction

The MINI SDI to HDMI™ converter allows SD-SDI, HD-SDI and 3G-SDI signals to be shown on HDMI™ displays while ensuring high bit rates of 2.970 Gbit/s to give you fast signal transmission without any loss. For professionals this means that it is now easier to distribute and extend your 3G SDI signal while giving you the ability to display your work on HDMI™ displays thanks to the built in HDMI™ converter.



Features

1. **High-Speed SDI Transmission** – 3G/HD/SD-SDI up to 2.97 Gbps.
2. **SMPTE 425M/424M/292M/259M-C** – Full standard compliance.
3. **Equalized Output** – Stable, clean signal extension.
4. **8-Channel Audio De-embedding** – Flexible audio routing.
5. **3G-SDI Level B to A Conversion** – 1080p 10-bit format support.
6. **Compact & Durable** – Ideal for portable or rack setups.
7. **Long-Distance Support** – Daisy-chainable via coax.

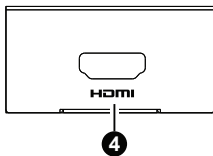
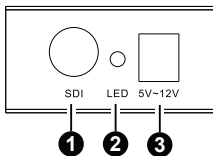
Package Contents

1.	XD-500	1 pcs
2.	Power Supply	1 pcs
3.	User Manual	1 pcs

Specifications

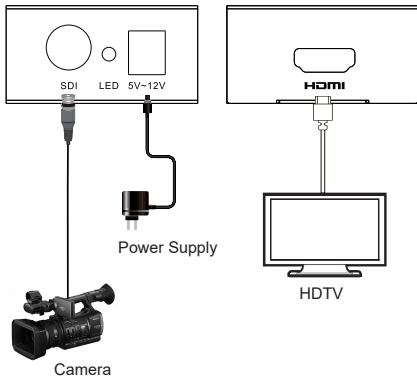
Technical	
SDI Transmission Rates	2.970 Gbit/s and 2.970/1.001 Gbit/s
Input/Output Resolution	480i, 576i, 720p@50/59.94, 60, 1080i@50/59.94/60 1080p@23.97/24/25/29.97/30/50/59.94/60
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connection	
Input	1 × SDI [BNC]
Output	1 × OUT [HDMI™ Type A, 19-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	L: 80mm/3.15in; W: 41mm/1.61in; H: 25mm/0.98in
Weight	150g/5.29oz
Power Supply	DC 5V -12V
Power Consumption	5W (Max)
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20% ~ 80% relative humidity, no condensation
Storage Humidity	10% ~ 90% relative humidity, no condensation

Operation Controls and Functions



No.	Name	Function Description
1.	SDI	Connects to the SDI source device.
2.	Power LED	The red LED will light up when the device is powered on.
3.	5V-12V	5V-12V DC power input port.
4.	HDMI OUT	HDMI signal output port, connected to a display device.

Application Example



HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

Still have some questions?

Please feel free to contact us at: info@orei.com. OR Fill out the form on the 'Contact Us' page on the website.

Our team will be more than happy to help you.

OREI Live Technical Support Hours

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