

AMS-SCH1

Professional SDI to HDMI Signal Converter



3G-SDI Full HD

Lossless 1080P signal
quality



300m Transmission

Stable long-distance
signal



Loop Output

Flexible monitoring
workflow



Plug and Play

No driver installation
needed

Audio & Video Sync Output



Visualizing the seamless signal flow: from professional camera input to crystal-clear HDMI output, with synchronized audio transmission.

Precise Conversion, Seamless Connection

The AMS-SCH1 losslessly converts broadcast-level SDI signals to widely compatible HDMI signals, ensuring zero-latency, high-fidelity audio and video synchronization for professional workflows.

Universal Solution for Diverse Fields

Ideal for live broadcasting, post-production studios, and security surveillance systems. It acts as a reliable bridge, eliminating connectivity barriers between SDI sources and HDMI displays.

"Bringing the professional SDI world into your HDMI display ecosystem with ease." Experience seamless integration of professional-grade equipment into your everyday high-definition setup.

Core Features

Three Core Functions to Meet Professional Needs

SDI to HDMI Conversion

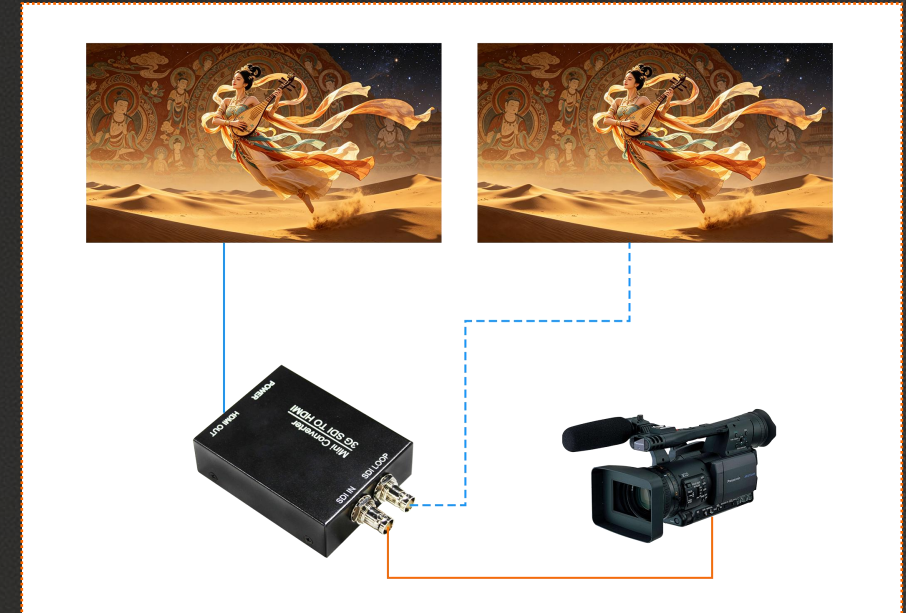
Converts SD-SDI, HD-SDI, and 3G-SDI input signals to a pure, stable HDMI output at up to 1080p@60Hz, ensuring compatibility with standard HDMI display devices.

SDI Loop-Out Function

Copies the SDI signal for simultaneous HDMI and SDI monitor connections or device cascading, significantly expanding workflow flexibility in professional setups.

Audio & Video Sync Transmission

High-quality decoding chips ensure perfectly synchronized embedded audio and video output, eliminating desynchronization issues for a seamless professional viewing experience.



Dual-output workflow: Connect SDI and HDMI displays simultaneously for flexible monitoring and cascading options.

Technical Specifications

Professional performance, precision-engineered for reliable signal conversion and transmission.

MODEL

AMS-SCH1 | Compact, all-in-one signal conversion solution

CONNECTIVITY & I/O

1x SDI In, 1x SDI Loop-out, 1x HDMI Out. Supports SDI to HDMI and SDI pass-through.

SDI COMPLIANCE

SMPTE 259M (SD), 292M (HD), 424M (3G). Seamless compatibility with professional broadcast gear.

MAX RESOLUTION

480i/576i up to 1080p@60Hz. Delivers crisp, high-definition video output for all professional needs.

EXTENDED TRANSMISSION

Up to 300m SDI signal distance with high-quality coaxial cable, ensuring signal integrity over long runs.

AUDIO & POWER

Digital audio embedded in HDMI output. Powered by low-consumption DC 5V/1A for flexible setup.

OPERATING CONDITIONS

Stable operation from 0°C to 40°C. Robust full-metal housing for durability and heat dissipation.

COMPACT DIMENSIONS

89mm x 70mm x 27mm. Ultra-portable design that fits effortlessly into any rack or field setup.

Interface Details: Simple, Intuitive, Plug & Play

01. Front Panel



SDI IN & LOOP: Connect to cameras, matrices or DVRs via SDI IN. The SDI LOOP interface allows direct connection to an SDI monitor or cascaded devices for signal sharing.

02. Rear Panel

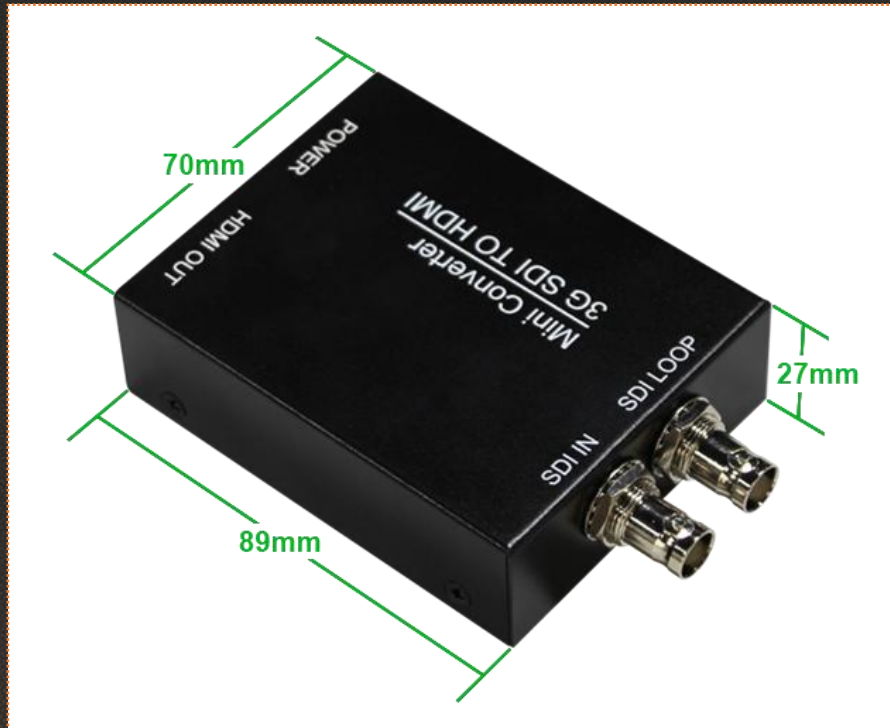


HDMI OUT & DC 5V: HDMI OUT connects to monitors, TVs or projectors for display. DC 5V power input ensures stable device operation with a standard power adapter.



Core Advantage: No software setup required, truly plug-and-play, which eliminates complex configurations and greatly simplifies the on-site deployment process for professionals.

Design & Material: Compact, Robust, Stable & Reliable



The AMS-SCH1 mirrors a business card in size, seamlessly integrating into workbenches, racks, or portable cases for professionals on the move.



Compact & Portable, Space-Saving

Measuring only **89mm x 70mm x 27mm**, this lightweight device occupies minimal space, making it perfect for mobile setups and environments where room is at a premium.



All-Metal Housing, Durable & Shielded

A premium integrated metal body delivers superior heat dissipation for long-term stability, natural electromagnetic shielding for pure signal transmission, and rugged physical protection against bumps and scratches.

3G-SDI & 300m Long-Distance Transmission



Compact, metal-bodied SDI converters delivering uncompromised signal integrity for professional broadcast and stage applications.



3G-SDI STANDARD SUPPORT

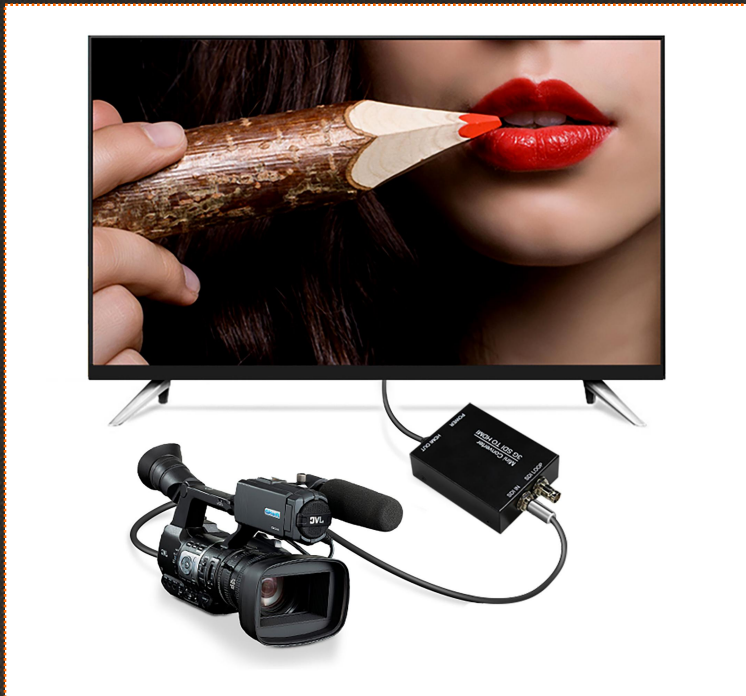
The mainstream HD digital serial interface supporting uncompressed 1080p@60Hz video. With superior bandwidth and stability over traditional HD-SDI, it guarantees broadcast-grade signal quality for professional film production and live events.



300M LONG-DISTANCE SIGNAL TRANSMISSION

Transmit stable, repeater-free signals up to 300 meters via premium SDI cabling. Ideal for large venues, stages, and security systems, it drastically cuts infrastructure costs while maintaining uncompromised signal integrity over extended distances.

Application Scenarios



Seamlessly bridging professional SDI sources to HDMI displays, empowering reliable signal integration across critical workflows and creative environments.

Broadcast TV

Ideal for live broadcasting and studio signal distribution, ensuring high-fidelity transmission for real-time production workflows.

Video Conferencing

Integrates professional SDI camera signals into HDMI-based conference systems, delivering crisp, broadcast-quality video for remote collaboration.

Stage Performances

Facilitates reliable signal conversion for LED video walls, ensuring smooth, high-resolution visuals for live events and shows.

Security Surveillance

Enables seamless DVR/NVR signal display on large HDMI screens, centralizing monitoring for comprehensive security oversight.

Education & Training

Supports teaching studios and multimedia presentations by converting professional video sources for clear, engaging classroom displays.

Home Theater & Studios

Connects professional-grade camcorders and gear to home HDMI displays, bringing broadcast-quality content to personal creative spaces.

Scenario 1: Broadcast Live & Production

Broadcast-Grade Quality, The Trusted Choice for Live Events



Live Event Scenario

In high-stakes live events, sports matches, or press conferences, professional multi-camera SDI setups are standard, demanding reliable signal routing and redundancy.



AMS-SCH1 Workflow

Input camera SDI signals to **SDI IN**, route to HDMI monitors via **HDMI OUT** for real-time viewing, and use **SDI LOOP** for backup recording or remote transmission.

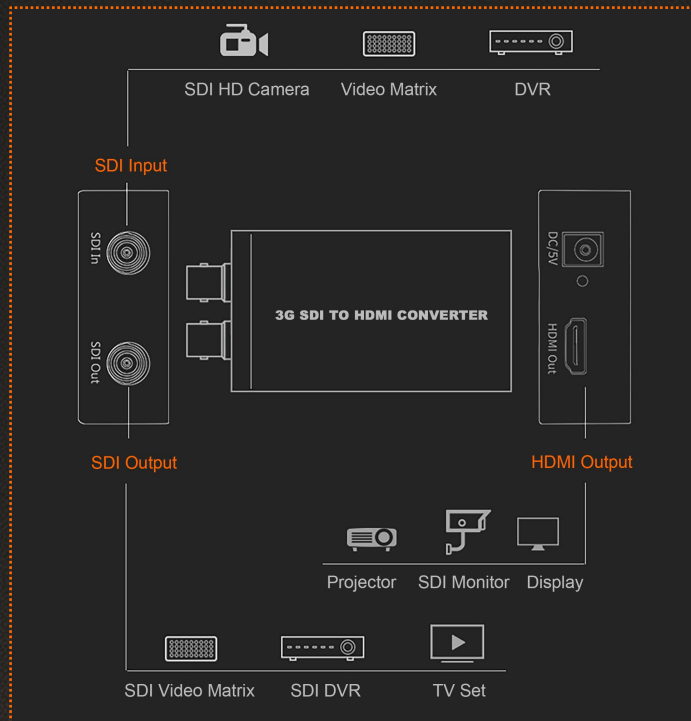


Operational Value

Seamlessly separates monitoring and recording/transmission workflows, eliminating signal conflicts and ensuring 100% redundancy for critical live broadcast processes.

Key Benefit: By decoupling monitoring and recording paths, the AMS-SCH1 guarantees signal integrity and operational safety, making it an indispensable tool for professional broadcast environments.

Scenario 2: Security Surveillance Systems



The AMS-SCH1 converter seamlessly bridges SDI surveillance sources to HDMI display walls, as illustrated in the connection diagram above.

The Challenge of Signal Compatibility

In large-scale security control centers, front-end SDI cameras/DVRs must connect to central HDMI video walls. The incompatibility between these signal standards often creates integration bottlenecks for efficient monitoring.



SDI Input Source

Connect DVR or matrix SDI output directly to the AMS-SCH1's input port for seamless signal capture.



HDMI Display Out

Link the HDMI output to LCD video walls or TVs for high-definition real-time video monitoring display.



SDI Loop-Through

Utilize the loop interface to feed signals to other SDI systems or enable long-distance transmission needs.



Unmatched Value Proposition

Eliminates complex conversions, ensuring low-cost investment and rapid deployment for a unified, high-performance security monitoring ecosystem.

Scenario 3: Conference Rooms & Multimedia Classrooms

Integrating Professional Equipment into Modern Meetings & Teaching



The Challenge

High-end conference rooms and multimedia classrooms deploy professional SDI cameras for superior image quality, but standard displays (projectors, large screens) only support HDMI input, creating a critical connectivity gap between source and output.



The AMS-SCH1 Solution

Connect the SDI camera to the AMS-SCH1 converter, then link the converter to the HDMI display. It's completely plug-and-play with zero configuration—automatically translating the professional SDI signal into a crisp HDMI output for seamless big-screen projection.



Core Value Delivered

Elevates the AV experience for meetings and lessons with lossless signal conversion. The tool is intuitive for staff/educators, requiring no technical expertise, and its robust build ensures reliable, long-term performance with minimal upkeep.

Seamlessly bridge professional SDI hardware with consumer HDMI displays for impactful, distraction-free collaboration and education.

Package Contents



1* Mini Converter

1* Power Supply

Complete set of high-quality accessories included, ensuring you are ready to use the converter immediately out of the box.



AMOONSKY AMS-SCH1 Converter Main Unit

The core device featuring advanced signal processing for reliable SDI to HDMI conversion, included as the primary component.



DC 5V/1A Power Adapter

A dedicated, stable power supply unit to keep the converter running efficiently and safely, with universal voltage compatibility.



Comprehensive Product Manual

Step-by-step guide covering setup, operation, and troubleshooting to help users maximize the product's potential effortlessly.

After-Sales Service & Support

Quality Commitment, Worry-Free Experience



One-Year Warranty

All AMOONSKY products include a 1-year free warranty. From purchase date, any failure due to quality issues is fully covered by free repair or direct replacement, ensuring your investment is protected.



Technical Support

Our dedicated team of technical experts is on hand to address any questions or challenges you may face during product setup and operation, providing precise guidance for seamless user experience.



Working Time

We offer online customer service to ensure timely responses to your inquiries. Whether it's a simple question or urgent assistance, our team is available around the clock for efficient support.

Choose AMOONSKY, Choose Professionalism and Reliability

High Performance

Supports 3G-SDI, 1080P Full HD resolution, and ensures perfect audio-video synchronization for a seamless experience.

Multi-functional Design

Combines SDI to HDMI conversion and SDI loop-out functions in one compact unit, maximizing connectivity options.

Long-Distance Transmission

Supports up to 300 meters of stable SDI signal transmission without loss, ideal for large-scale professional setups.

Exceptional Durability & Reliability

Crafted with an all-metal housing for robust protection, ensuring stable heat dissipation and consistent performance in demanding environments.

Plug-and-Play Simplicity

Designed for hassle-free operation with no complex setup required—connect your devices and start working immediately.

Boost Your Work Efficiency!

THANK YOU VERY MUCH



If you have any questions about our products or need further information, please feel free to contact us. We look forward to collaborating with you to create a better future.