

HSUX-UHD Video Capture Box

*Redefining **The 4K Multitasking Capture era***

PRODUCT LAUNCH • 2026

CONTENTS

01

Product Overview

Next-generation Multitasking video capture solution

02

Core Highlights

Three Breakthroughs, Leading Industry Standards

03

Professional Performance and Technical Specifications

04

Broad Application Scenarios

Empowering various industries

01 Product Overview

Next-generation Multitasking video capture solution

Product positioning: More than just capture, it is the core hub of a professional workflow.

Welcome to a new era of 4K multitasking capture. The HSUX-UHD is a high-performance external video capture box designed specifically for professionals. It is not just a signal input device; it serves as the core hub to connect all your video sources, enabling multi-platform distribution and efficient production. With its outstanding performance, extreme flexibility, and powerful multitasking capabilities, the HSUX-UHD aims to provide unprecedented creative freedom and efficiency for live streamers, content creators, broadcast engineers, and educators.

Core fundamental characteristics: stable, efficient, widely compatible



High-speed transmission interface

Utilizing USB3.1 Gen1/Gen2 (Type-C) ports, it provides bandwidth of up to 10Gbps, ensuring uncompressed, zero-latency transmission of 4Kp60 video.



True plug-and-play

Fully compliant with UVC/UAC standards, no additional drivers required, just connect to the computer and it can be used immediately, simplifying the workflow.



Independent hardware processing

Built-in high-performance video processing chip, all encoding and decoding tasks are completed independently by the capture card, freeing your host CPU to handle more core tasks



Convenient Power Supply Design

No additional power adapter purchase is required; simply power the capture card directly through the USB-C interface, effectively simplifying the desktop device wiring and keeping the desktop tidy.



Extensive System and Software Compatibility

Cross-platform support for major operating systems such as Windows, macOS, Linux, and Android; perfectly compatible with video capture and editing software like OBS, VLC, and Premiere Pro.

Extensive system and software compatibility

01 Operating system full-platform adaptation



Fully supports Windows 7/8/10/11, macOS, Linux, and Android 5.0 + mobile operating systems.

Comprehensive compatibility Kirin, UOS and other autonomous and controllable systems to meet the security and compliance needs of government and enterprise users.

Whether in a desktop office, mobile scenario, or localized environment, it can provide a consistent and smooth xperience

02 Seamless compatibility with mainstream professional software



Deep adaptation to live streaming tools such as OBS Studio, Wirecast, as well as PotPlayer and VLC Media Player

Perfectly compatible with editing software such as Adobe Premiere Pro, Final Cut Pro, ensuring efficient collaboration in audio and video workflows

02 Core Highlights Deep Analysis

Three breakthroughs, leading industry standards.

The HSUX-UHD has brought three revolutionary breakthroughs, redefining the capability boundaries of external capture cards, breaking past limitations comprehensively from performance ceilings to compatibility and user experience, setting a new industry benchmark for professional creators and eSports players.



Performance Limit Breakthrough

Equipped with a customized high-performance chip set, it supports 4K 60Hz lossless input and loop-out, breaking the frame rate and image quality bottlenecks of traditional capture cards, restoring the stunning details of every frame.



Full Ecosystem Interface Compatibility

Integrated with HDMI 2.0, 12G SDI and USB3.1 interfaces, it perfectly supports compatibility with multiple generations of devices. Whether it's a console, camera, or professional workstation, seamless plug-and-play connectivity can be achieved.



Ultimate Zero- Latency

By utilizing a self-developed low-latency algorithm and a fully hardware-based decoding architecture, the end-to-end total latency is reduced to within 80ms, keeping operations and visuals perfectly synchronized during live broadcasts and real-time recordings.

First in the country

4K HDMI and 12G-SDI dual synchronized capture



12G-SDI professional interface

Supports broadcast-grade 12G-SDI signal input, meeting the high-definition and standard-definition compatibility and signal transmission needs for professional film and television production.



4K HDMI 2.0 interface

Widely compatible with consumer and professional 4K signal sources, easily connects cameras, computers, and game consoles with plug-and-play functionality.

Technical definition: dual independent parallel capture

Allows simultaneous access to one 4K HDMI signal and one 12G-SDI signal, transmitting both signals to the computer through independent physical channels without crosstalk or delay, breaking the limitations of traditional capture cards that are 'single-path exclusive.'

Performance indicators: true 4K dual concurrent performance

In dual simultaneous capture mode, each signal can stably maintain 4096×2160 @ 30fps high-quality specifications, with accurate color reproduction and clear details without compression.

multi-camera production

Simultaneous recording and live streaming from two 4K camera angles, meeting the needs of professional interviews and e-commerce scenarios

Monitor + recording backup

Streaming live continuously while simultaneously providing high-quality local recording ensures dual protection for content security.

Highlight 2: Extreme Flexibility • HDMI/SDI Dual Mode Input and Bidirectional Conversion

The HSUX-UHD is not just a capture card; it is also a powerful **interface converter**



Dual Mode Input Selection

Supports single-channel signal capture via HDMI or SDI, with a maximum resolution of **4096×2160@60fps**



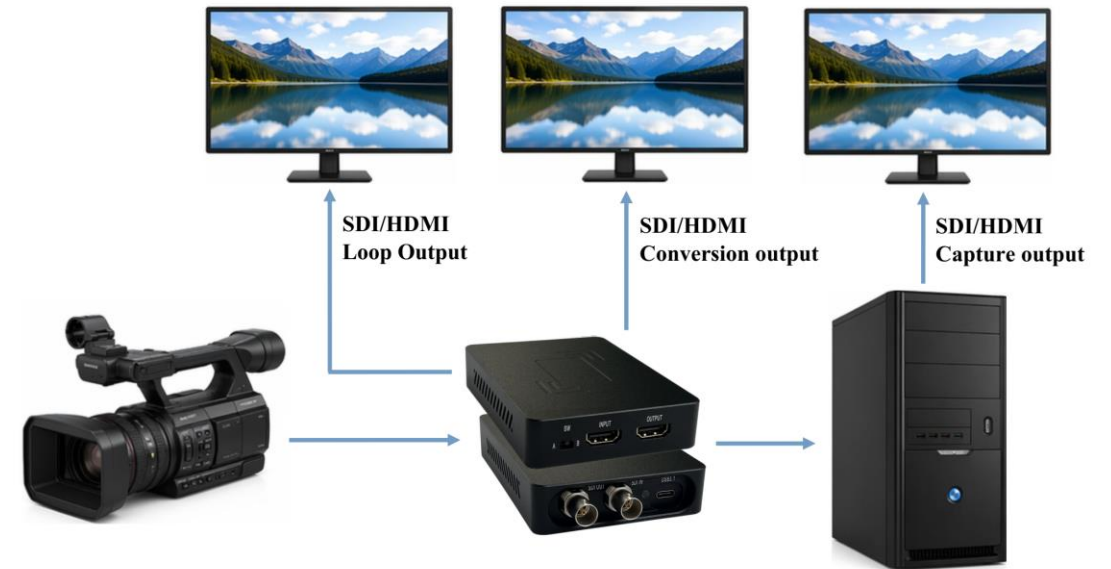
HDMI-SDI Bidirectional Conversion

Equipped with independent signal conversion capabilities, supporting bidirectional output between HDMI- SDI or SDI-HDMI, flexibly adapting to different device interfaces.



Device Bridging & Parallel Capture

Solve interface connection challenges and support USB for collecting video and signal conversion simultaneously, achieving the dual task of "collecting + conversion."



1 video source +1 capture box = Loop Output + Conversion output + Capture output

Highlight 3: Multi-task Processing · Single Source Quad-Channel, Empowering Multi-Platform Distribution

The H50X-UHD has powerful **multi-channel virtual output capability**, allowing a single physical video source to be replicated in real time into four independent HD video streams, breaking traditional equipment interface limitations and maximizing content production and distribution potential

⚡ Core Performance Indicators

Supports 1 channel audio and video input to 4 channels independent collection output

Maximum per channel: 1920×1080@60fps



**All-Platform
Live
Broadcastin**

Bilibili/Tiktok/YouTube/Twitch
synchronized
streaming, achieving
full-channel coverage



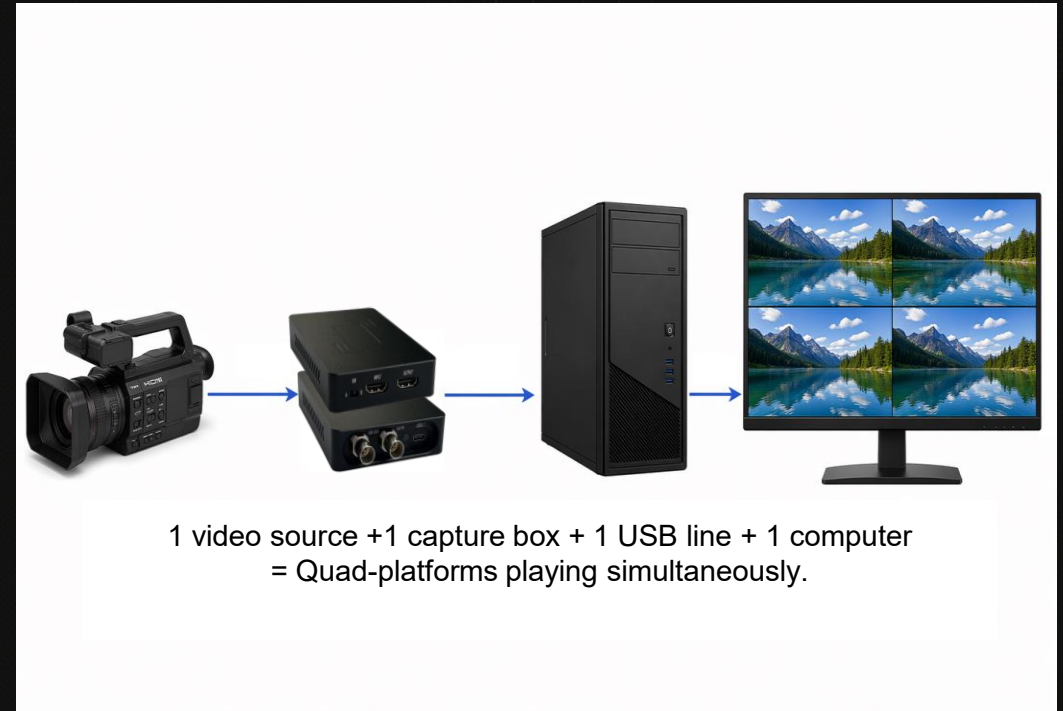
Multi-tasking

Live streaming,
recording, monitoring
,and previewing
multiple processes
simultaneously,efficie
ncy is multiplied.



**Team
Collaboratio**

Multipleⁿ
software/multiple
personnel share the
same source signal,
breaking
down collaboration
barriers.



**Fully compatible with mainstream live streaming
platforms.**

Seamless docking with various distribution channels, one-click distribution reaches a massive global user base

03 professional performance & technical specifications

Product Model HSUX-UHD

High Frame Rate Support Supports 1080p @ 120fps capture/loop/conversion output

Host Interface USB3.1 Gen1/Gen2 (Type-C), bandwidth 10Gbps

multi-stream output supports 1 channel input, 4 channel 1080p60 output

HDMI input /Loop-output Compatible with HDMI 1.4/2.0 standards, supporting up to 4096x2160@60fps.

audio and video formats video: YUY2,I420,NV12
Audio: LPCM (8 channels/48KHz/16bit)

12G SDI input /Loop-output Supports SD/HD/3G/6G/12G SDI, complies with SMPTE standards, with a maximum support of 4096x2160@60fps.

Image adjustment Supports adjustments for brightness, contrast, hue and saturation

最高采集分辨率 Single channel: 4096×2160 @ 60fps
Dual channel : 4096×2160 @ 30fps
Quad-Channel : 1920×1080 @ 60fps

System and upgrades Independent hardware processing, does not occupy host CPU
USB-C bus powered, supports online firmware upgrades

Custom Services

Meets your special requirements

We understand that different industries have different needs. Therefore, HSUX-UHD offers flexible customization services, providing comprehensive support from underlying functionality to the integration of upper-layer business logic to fully meet your specific requirements, ensuring that the system perfectly aligns with your workflow.



Special Resolution

Adaptation for non-standard/super high-resolution display devices



Color Space

Support for precise conversion of various professional color modes



LOGO Overlay

Custom brand identification watermark and layout positioning



Encryption

Dual encryption of hardware and software to ensure asset security



secondary development

seamless docking with your existing management system

04 Extensive application scenarios

Empowering various industries • Unlocking new possibilities for creativity

The HSUX-UHD, with its powerful combination of features and exceptional performance, perfectly adapts to the diverse professional video production needs, providing stable, efficient, and professional one-stop solutions for creators, organizations, and businesses across various fields.



Professional live streaming and broadcasting

Supports real-time switching of multiple signals and high-bitrate streaming, perfectly satisfying various scenarios such as e-commerce sales, gaming events, and online launch conferences, ensuring clear and smooth visuals without stuttering.



Film and creative production

Perfectly compatible with 4K/8K high frame rate recording and HDR color space, accurately restoring light and shadow details, providing professional-grade image quality and color assurance for films, advertisements, and short video creation.



Corporate and Educational Promotion

Easily handle corporate promotional videos, internal training course recordings, and remote teaching scenarios, efficiently restoring true colors and sounds, significantly enhancing content professionalism and dissemination effectiveness.

Application Scenarios: Professional Live Streaming

Whether it's e-commerce, gaming, or online education, HSUX-UHD can provide a stable 4K signal source and multi-platform streaming capability, making your live broadcasts more competitive.



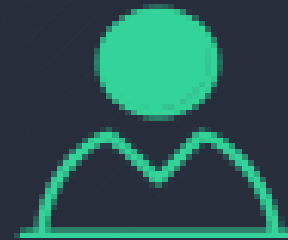
E-commerce Live Selling

Ultra-high-definition picture quality restores product details; multi-camera switching makes selling more efficient.



Gaming

Millisecond-level low-latency transmission ensures stable streaming and smoothly demonstrates operational details.



Online Education

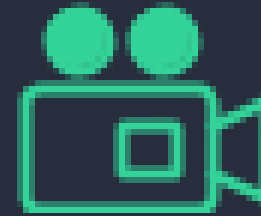
Clearly display board work and experimental details, ensuring a stable live broadcast experience to guarantee teaching quality.

Application scenarios: Content Creation and Broadcast and Corporate Promotion



Content Creation

Easily connect cameras, game consoles, computers, and other devices to conduct high-quality video recording. The dual-channel capture function offers more possibilities for creative video production, aiding creators in producing diverse content.



Broadcast and Corporate Promotion

As a Portable Capture Unit for live production, or for professional signal conversion and real-time monitoring, it can accurately meet the high standards of broadcast level and the professional business requirements for corporate promotion.

Application scenarios: remote meeting and teaching



Online teaching • Clear interaction

By connecting a professional camera's signal to a computer, it presents students with picture quality that far exceeds that of ordinary webcams. The details of written content and presentation visuals are clear, and combined with stable transmission effects, the online classroom experience becomes more vivid and smooth, bridging the gap between teachers and students



Remote meeting • Corporate image

In business communication, showcase confidence with professional-level HD pictures. Whether it's remote collaboration, client proposals, or international meetings, clear video quality can effectively enhance communication efficiency, present a rigorous and professional corporate image, and make each meeting feel as natural as face-to-face.

Thank you for watching



THANK YOU

HSUX-UHD • Redefining professional video acquisition workflow