

LipEncoder HQ

5G Bonding Encoder



Powered by
NAGASOFT



8 channel bonding
5G+4G+WiFi+Ethernet



Production+encoding+decoding
SDI+HDMI live switching



FHD/4Kp30
1080p60 / 4Kp30 (HDMI)



Touchscreen
Multiview, management, settings



Program making
PIP, picture overlay..



Embedded SIM slots
5G+4G network module embedded



Coding technique
H.265/HEVC, H.264



Multiple streaming protocol
RTMP, SRT, Live+ connection



Built-in battery
Wide voltages supporting



Remote management
Device remote centralized
management platform



Vertical and horizontal live streaming
Vertical and horizontal projects selection



Frame synchronization
Server frame synchronization

Bonding Encoding+ Bonding Decoding + Bonding routing 3 in 1

Support H.265/HEVC or H.264 encoding and decoding,
bonding streaming and bonding routing functions

LipEncoder HQ, equipped with LipEncoder bonding system, stable transmission of multiple links. Support 8 channels bonding networking, support all kinds of common streaming and connection protocols to do multiple camera remote collaborative production. The device also support channel pull stream function, and can be done as decoder to receive signal and output by SDI/HDMI.



Professional bonding streaming engine
LipEncoder 2.0 bonding technology support

Equipped with LipEncoder 2.0 bonding system, stable transmission of multiple links

5Gx2+ 4Gx3+ USB port extend x1+ WiFi+ Ethernet
Max 1000Mbps bonding capacity
(various due to bonding server capacity)

300Mbps 1000Mbps 500Mbps



8 channels bonding overlay

Built-in 5G with greater broadband support

Excellent algorithm transmission support

Stable transmission of depth
algorithm of LipEncoder 2.0

Network status detection

Dynamic link waveform chart monitoring

Dual input, SDI+HDMI switchable

Support simultaneous access of SDI signal of up to 1080p60 and HDMI signal of 4Kp30, and do live production on touch screen



Touchscreen live
Image live production



One stop packaging

LipEncoder HQ has such practical packaging functions as picture switching, picture overlay, picture in picture and so on, which can be streaming in a variety of high quality anywhere.



Picture Overlay
Add overlay, logo icon



PIP
Customizable layout mode,
adding background



Mixer
Embedded audio
mixer software



Launch live streaming to the world anytime, anywhere

Use any SDI/HDMI video source to directly conduct multi platform RTMP live streaming

No need for a broadcaster or a computer with streaming software installed, you can directly do live streaming on the program site.



Launch live streaming

Launch streaming at the camera end

Multi-camera remote connect or video back to the backpack

SRT protocol or Live+ is used for on-site video retrieval in outdoor or auto show
Receive the on-site signal in the rebroadcast vehicle or studio center to realize the production of remote connection programs



SRT/Live+ support

Low latency end-to-end network video transmission

Based on Live+ protocol ultra-low latency device interconnection

LipEncoder HQ can be interconnected with any Nagasoft NSCaster models, and achieve multi-camera remote transmission in front end and live production and program packaging solution in back end.



Live+ one button interconnection

Millisecond low latency audio and video interconnection




Video return + Monitor return + Intercom

NSCaster live production device can send back one channel video to HQ as the video return of front side camera signal and can do intercom in overall scheme.



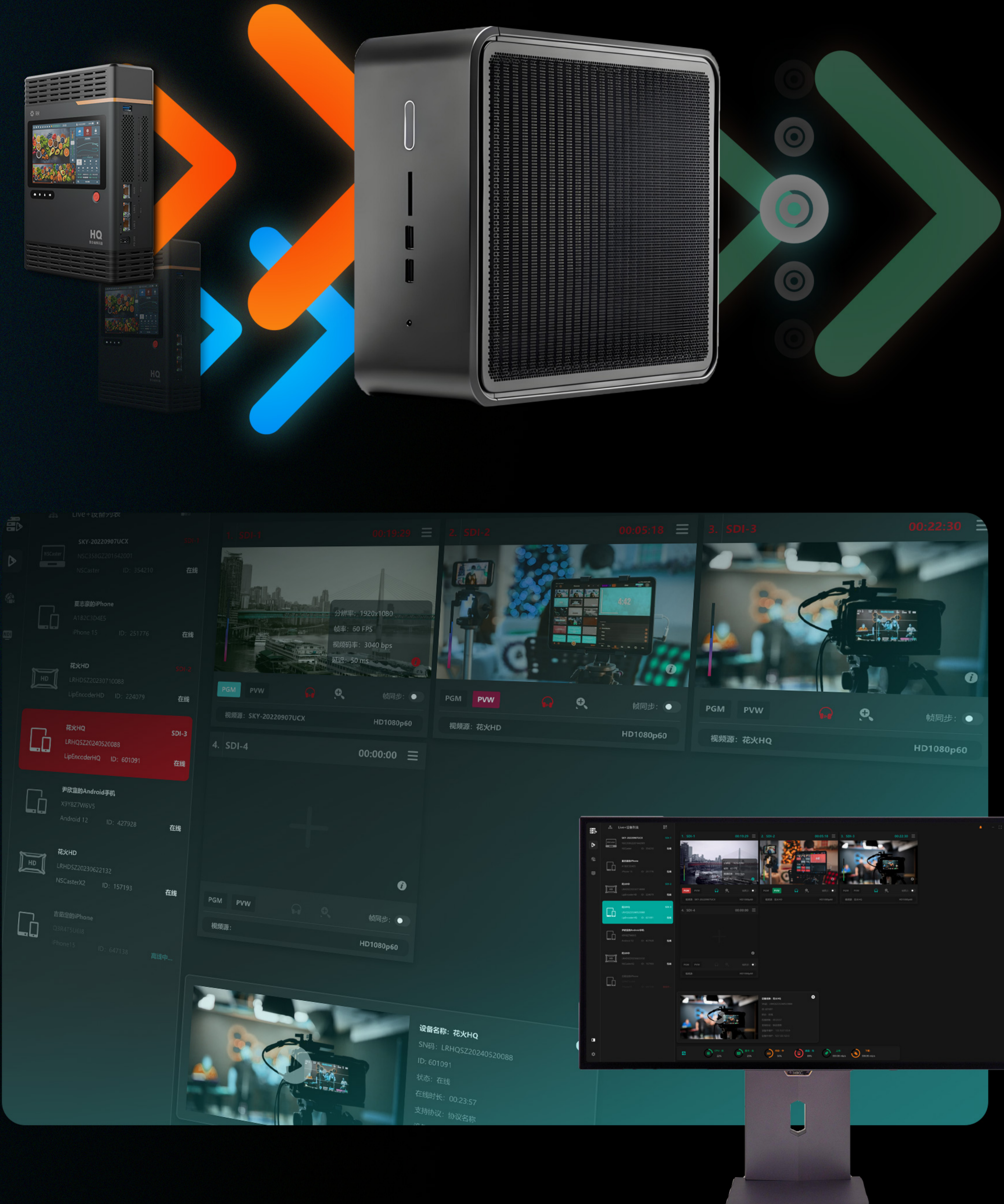
Optional professional decoder with receiving host, frame synchronization and multiple decoding output

LipEncoder HQ can be worked with professional decoder (receiving host), and provide remote video and audio receiving and device resource management for multi-channel program. Support frame synchronization and multiple SDI decoding output.



Frame synchronization

Multi-camera video return frame synchronization



Convert to multi card bonding router to use

The network port can be set as LAN access to provide us devices with internet.
WiFi can be set as AP mode to provide a wireless network for bonding.



WiFi function one click conversion
WiFi (SAT/AP) mode can be set and switch

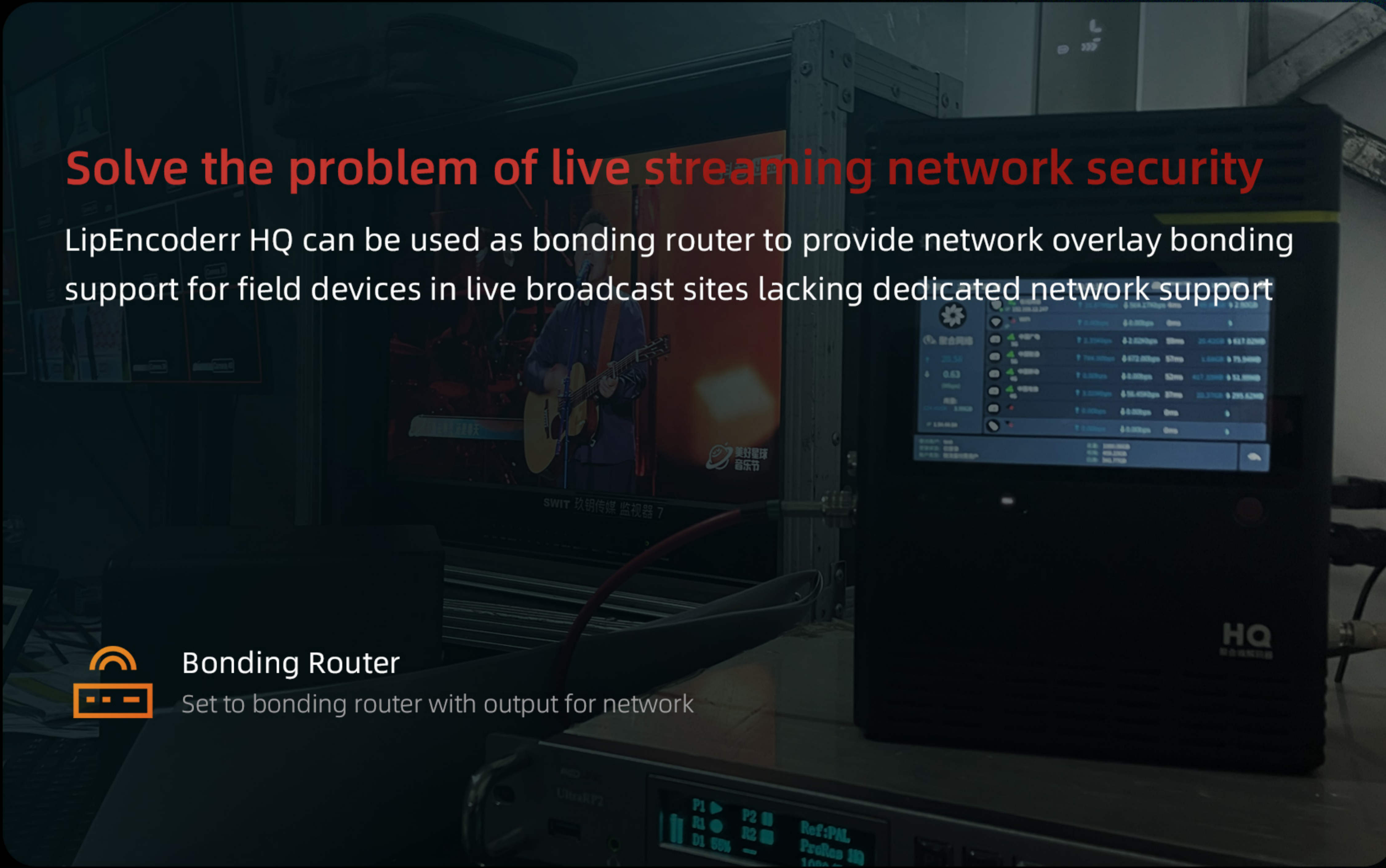


Solve the problem of live streaming network security

LipEncoderr HQ can be used as bonding router to provide network overlay bonding support for field devices in live broadcast sites lacking dedicated network support



Bonding Router
Set to bonding router with output for network

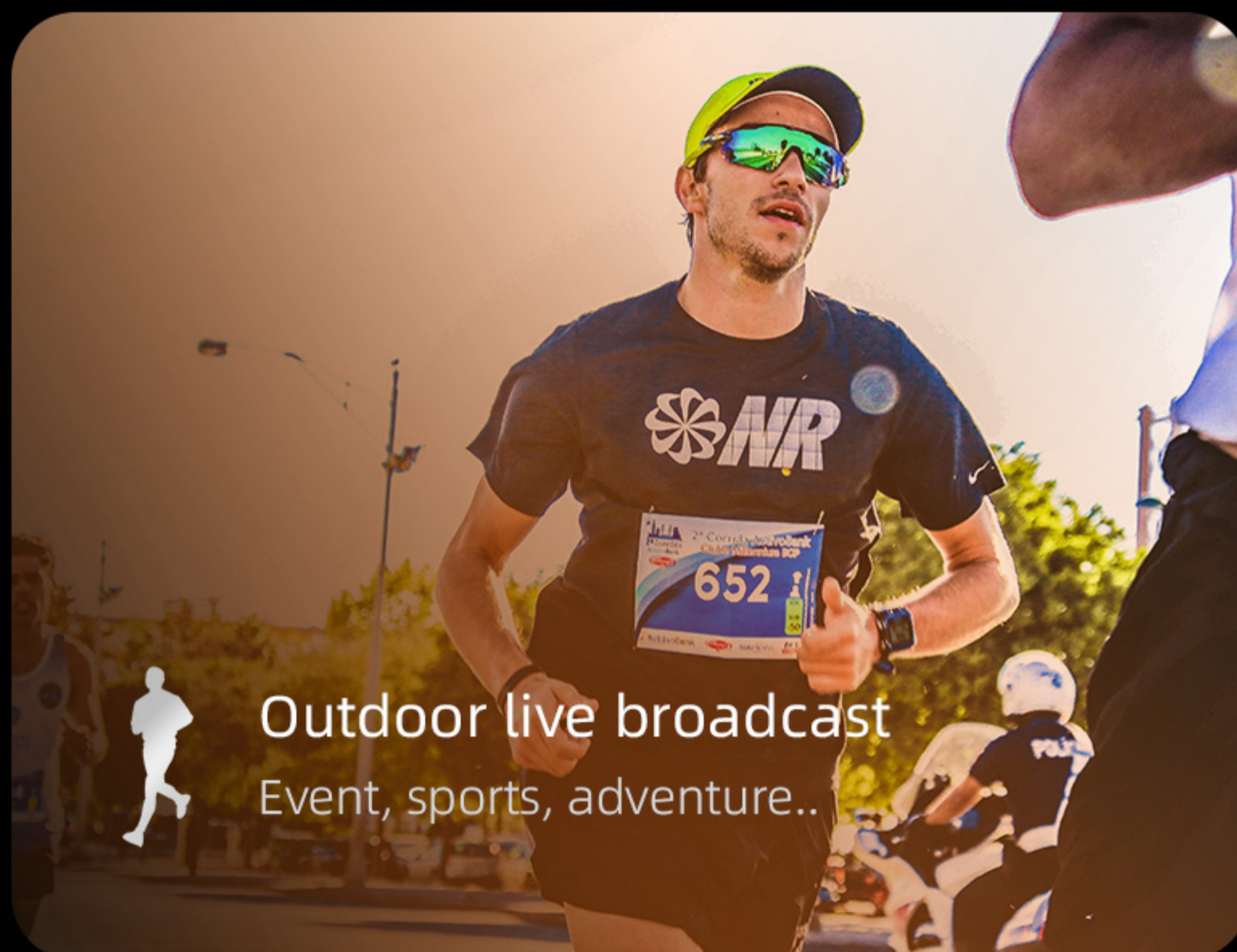


Application scenario

Built-in lithium battery and stable bonding network support, make LipEncoder HQ applicable to various outdoor or mobile live streaming scenes.



No matter one site or multi-camera with remote connection, it is an ideal solution for new media live broadcast that is flexible and free of space restrictions.



Outdoor live broadcast
Event, sports, adventure..



Conference & lecture
Live broadcast of seminar & training



Live broadcast of the exhibition
Auto show and other exhibitions



Live on line
On location, interview connection



Streaming Media Studio
Necessary tools for audio and video media productivity

Appearance and interface

Designed for professional streaming media users, but easy to learn and operate

Visual window touch operation and monitoring



Specifications and parameters

System architecture

Based on ARM embedded Linux

Video input

3G-SDI 1080p60
HDMI 4Kp30
Live dual input

Video output

3G-SDI 1080p60
HDMI 4Kp30

Audio input

SDI/HDMI embedded audio
3.5mm line input
3.5mm microphone
Mix

Audio output

SDI/HDMI embedded audio
3.5mm monitoring

Audio sampling

48kHz, 16 bit, stereo

Video standard

SD PAL/NTSC、720p50/59.94/60、1080i50/59.94/60、
1080p25/30/50/59.94/60、4Kp30

Video coding

H.265/HEVC, H.264

Communication and control interface

RS232*1 (PTZ control, phoenix contract) / 3.5mm headphone *1 (call, connection) / Tally signal (phoenix contract)

Bonding Network

5G NSA/SA x2, 4G Network x3 + USB 3.0 extend x1+ giga Ethernet+ 2.4G/5.8G WiFi dual frequency

Display

5.5 inches MIPI LCD, 1920x1080, touchscreen interface operation, image monitoring, audio VU.

Power supply

65W type C PD20 power supply/embedded lithium battery 6400mAh/14.8V,
4-5 hours power supply for endurance

Storage

256G

Software function

Transition, subtitles, CG, PIP and other packaging functions, Live+ interconnection, video return and monitoring, support vertical and horizontal projects with multiple protocol streaming and recording.

