Vidtech Pte Ltd
Reg No: 201910899D

Sales Enquiry:
E: sales@vidtechbiz.com
www.vidtechbiz.com

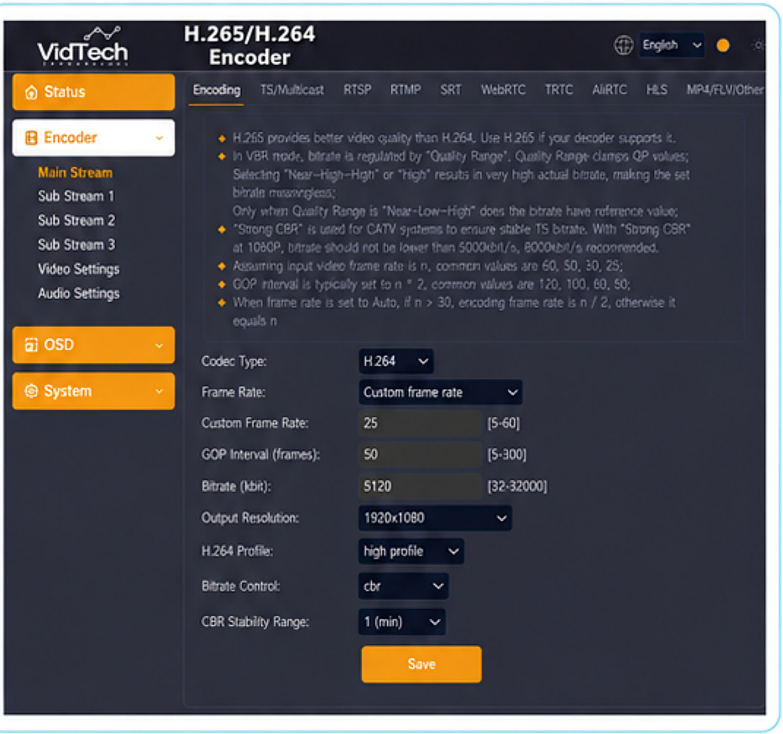


VTB-NE100P/PS H.265(HEVC) / H.264(AVC) SDI / HDMI Video Encoder

The VTB-NE100P / VTB-NE100PS is an advanced SoC-based network video encoder supporting both H.265/HEVC and H.264/AVC compression. Available with either HDMI or HD-SDI input, it supports input resolutions up to 1920×1080@60fps and delivers IP video streams up to 1080p@60fps.

Designed for professional broadcast, live streaming, IPTV, and new media applications, the encoder supports multiple streaming protocols including HTTP-TS, RTMP, RTMPS, HLS, FLV, RTSP, MP4, UDP/RTP Unicast/Multicast, and SRT (Secure Reliable Transport) for reliable, low-latency video contribution and distribution over managed and unmanaged IP networks.

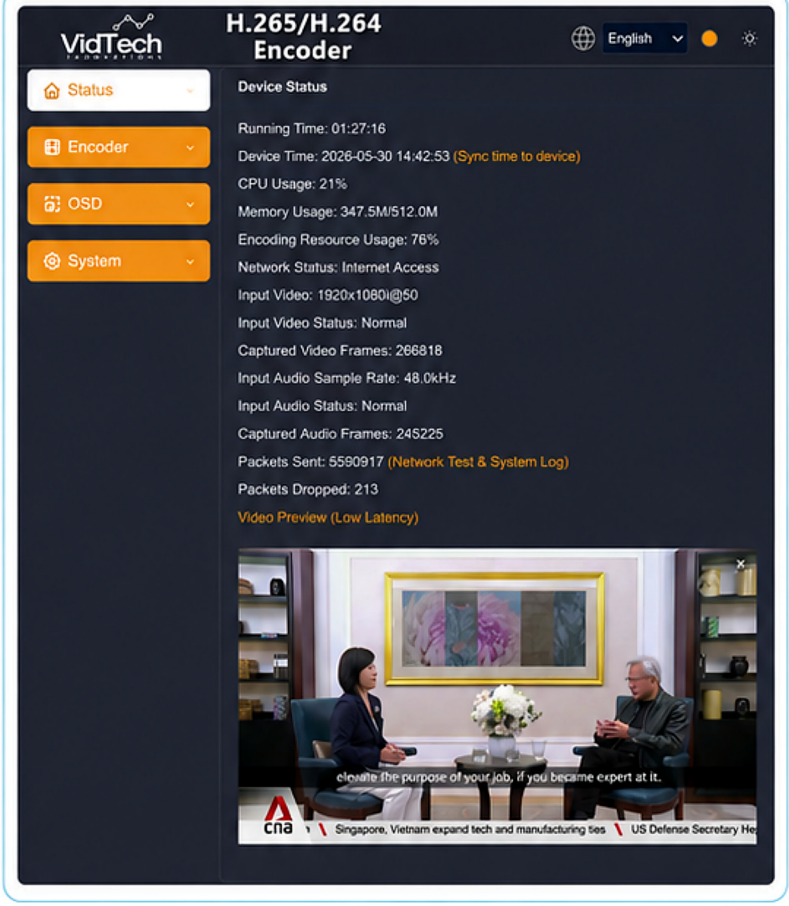
The VTB-NE100P/PS has been tested for reliability and performance across broadcast and new media workflows. It integrates well with VidTech's customizable media gateway streaming platform and is compatible with major live streaming and social platforms such as YouTube, Facebook, and X.



Vidtech Pte Ltd
Reg No: 201910899D

Sales Enquiry:
E: sales@vidtechbiz.com
www.vidtechbiz.com

Product Features



- Hardware-based SoC system design for stable, reliable 24/7 operation.
- Supports H.265/HEVC and H.264/AVC Baseline, Main, and High Profile encoding.
- Multi-protocol streaming support: SRT, HTTP, HLS, FLV, RTSP, RTMP/RTMPS, MP4, UDP/RTP (Unicast/Multicast), and optional NDI.
- Supports both SRT Caller and SRT Listener modes.
- Supports SRT passphrase encryption with AES-128/256 for secure streaming.
- Supports quad-channel video encoding with Main Stream and Sub Streams 1–3 for simultaneous delivery to different platforms.
- Main stream preset resolutions range from 1920×1080 down to 480×270 and additional presets.
- Built-in FLV player for quick content preview and verification.
- Supports text and image overlay insertion as stream logos for the main stream and sub streams.



- Automatically detects input video signals and shows no-signal status when input is interrupted.
- Adjustable output stream bitrate.
- Supports external analog audio input.
- Supports NTP for network time synchronization.
- Supports scheduled restart based on application requirements.
- Supports video flip, mirroring, and rotation at 0°, 90°, 180°, and 270°.
- Supports input video clipping.
- Supports remote control via router port forwarding.
- Optional Wi-Fi version: 2.4GHz / 5.8GHz.
- Simple web-based control UI.
- Customizable English / Chinese GUI control.

Extended Remote Service Capability

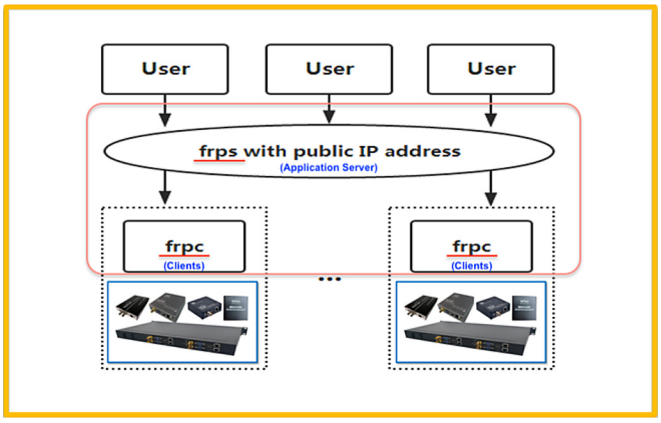
VidTech Remote Device Management Dashboard

The Remote Device Management Dashboard extends the VTB-NE100P/PS encoder with secure remote access for devices deployed behind NAT routers or firewalls. Using an FRP reverse-proxy architecture, authorized users can reach internal device management interfaces through a centralized dashboard server for remote configuration, monitoring, and support.

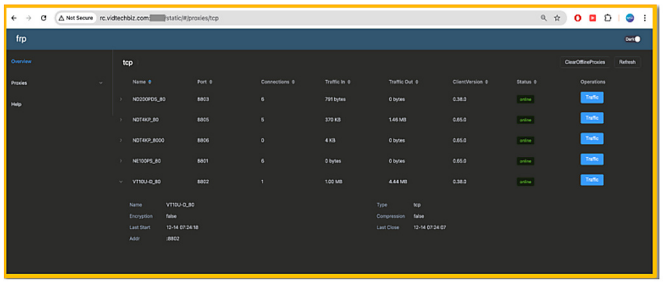
Key Benefits

- Centralized dashboard for remote device access and status monitoring.
- Secure remote access without complex site-side routing.
- Remote troubleshooting, configuration, and service support.
- Reduces on-site service visits and improves response time.
- Simplifies support for distributed broadcast, IPTV, and streaming deployments.
- Ideal for multi-site encoder and decoder management workflows.

Remote Management Workflow



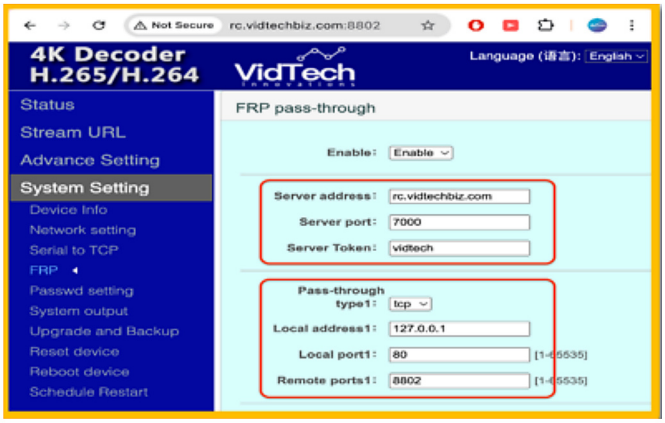
FRP reverse-proxy architecture for remote access to distributed VidTech devices.



Centralized dashboard view for proxy status, traffic, connections, and remote device access.

Operational Value

A centralized dashboard helps service teams manage encoders and decoders remotely, reducing deployment complexity and enabling faster response for customer service, maintenance, and logistics coordination.



Device-side FRP pass-through configuration page.

General Applications

- Professional broadcast and new media video-over-IP delivery.
- IPTV content acquisition.
- Internet video conference front-end capture.
- Secure digital signage IP streaming and decoding.
- Education and training.
- House of worship live streaming.
- Town hall meeting distribution.
- Network stream content monitoring.
- Live content contribution and remote production workflows.

Product Specification

Interface	
Video Input	HD-SDI or HDMI input model; supports up to 1920x1080p@60Hz
Audio Input	Embedded audio via HD-SDI or HDMI, plus external analog audio input
Ethernet	1000Mbps RJ-45
Wi-Fi	Optional 2.4GHz and 5.8GHz

Video Encoding	
Video Format	H.264/AVC High/Main/Baseline Profile, H.265/HEVC Main Profile, MJPEG/JPEG Baseline
Video Resolution	Up to 1920x1080p@60fps
Video Bitrate	0.1 - 32Mbps
Video Frame Rate	5 - 60fps
Streaming Protocols	HTTP, HLS, FLV, RTSP, RTMP/RTMPS, MP4, UDP/RTP Unicast/Multicast, ONVIF, optional NDI, SRT
Bitrate Control	CBR / VBR

Audio Encoding	
Audio Format	AAC, AAC+, AAC++, MP3, MP2, AC3, G.711
Sample Rate	44.1kHz / 48kHz
Bitrate	12 - 640Kbps

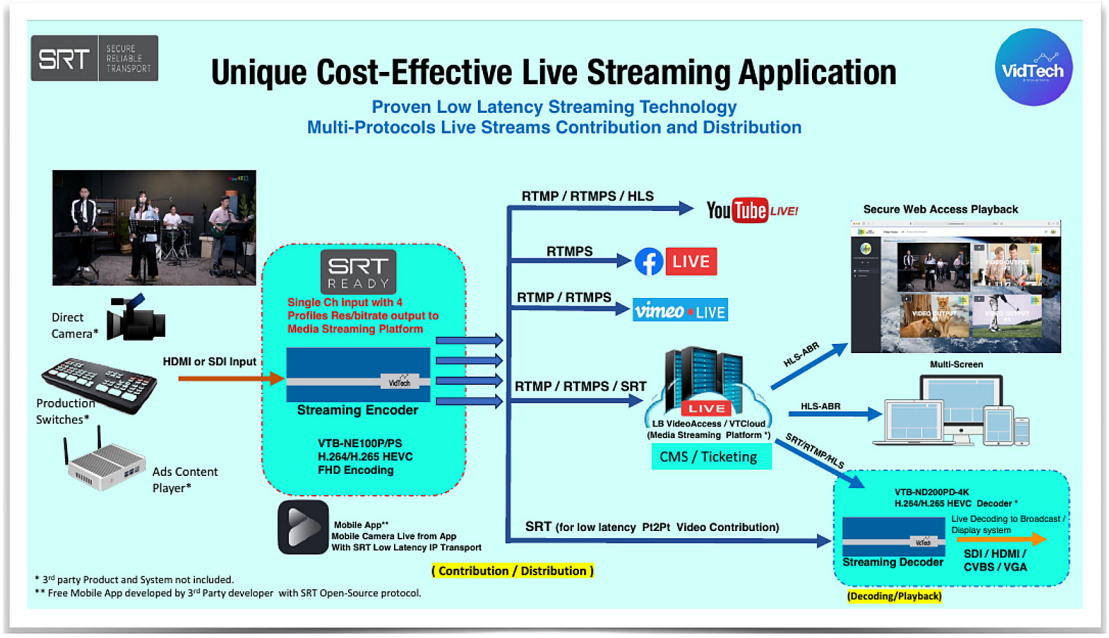
System	
Access Control	Web-based management
Language	English / Chinese control interface
Software Update	Software and firmware upgrade via Ethernet

Working Environment	
Operating Temperature	-10°C to 70°C
Storage Temperature	-20°C to 80°C
Relative Humidity	5% to 90%, non-condensing

Others	
Dimensions (L x W x H)	170 x 130 x 30mm
Approx. Weight	350g
Power Adapter	AC input 100-240V, 50/60Hz; DC output 12V/1A; Portable PD supported

Live Streaming Workflow & Product Services

The VTB-NE100P/PS supports cost-effective live streaming contribution and distribution. A single SDI or HDMI input can be encoded into multiple streaming profiles for social platforms, secure web playback, CMS/ticketing, mobile contribution, and decoder endpoints.



Example live contribution and distribution workflow using SRT, RTMP/RTMPS, HLS-ABR, CMS/ticketing, and decoder playback.

Product Services

- Standard 12-month product warranty.
- Standard online remote support during the warranty period.
- Extended warranty and service packages available upon quotation.

Rack-Mount Options

1RU and 3RU rack-mount versions are available for multi-channel applications, supporting up to 16 channels depending on the selected model and configuration.



VTB-NE100PU (1RU)



VTB-NE100PSU (1RU)



VTB-NE1600P/PS (3RU)