

3Gbit SDI/HDMI H.264 Streamer and Recorder

- Support for SDI video input up to 3Gbit/s
- Support for HDMI video input up to WUXGA
- H.264 or MJPEG encoding
- Supported streaming formats
 - RTMP*
 - RTP/RTSP
 - TS over UDP or RTP
 - HLS (HTTP Live)
- Unicast or Multicast
- Stream and record at the same time; record to MicroSD or USB
- Independent encoder for streaming and recording
- Independent scaler for streaming and recording
- Logo Insertion, Text Overlay and Custom Image if input missing
- Mobile friendly Web UI for configuration

The PEC 1864 is a versatile, compact SDI/HDMI H.264 streamer and recorder designed for a wide range of applications in the broadcast, film and pro A/V industry.

The module can be configured to stream, record or to do both simultaneously. The streamer and recorder have independent encoders allowing for separate configuration of streaming and recording. Each encoder includes an up/down/cross converter, region of interest scaler and a text overlay feature.

Two channels of audio are deembedded from the video input. In addition, the PEC 1864 has a line audio input and either one of these audio sources can be used for the streamer and/or recorder.

Users can insert a logo into the video signal stream, which can be positioned freely. Also a custom image can be shown if the input is missing.

The PEC 1864 supports a wide range of streaming standards as well as unicast and multicast operations. Whether you are streaming live to a Content Delivery Network using RTMP, viewing the stream on one or more computers using RTP/RTSP unicast or multicast, or streaming to a dedicated decoder or multicast address using TS over UDP or RTP, the PEC 1864 is a powerful device ideal for a diverse set of applications.

The PEC 1864 is suitable for live event streaming, webcasts, corporate or enterprise streaming, presentation and conferencing, AV system monitoring, house of worship proceedings streaming and many more.

A mobile device friendly Web UI allows for a simple configuration from a PC, Mac, tablet or smartphone.

Note: For legal reasons, HDMI capture devices from LYNX Technik AG are designed not to capture, convert or transmit video or audio from HDCP copy-protected sources (e.g. Satellite receivers, Cable receivers, etc.).

*PEC 1864 does not support RTMPS streaming protocol.

Power Adapter Options

The kit **INCLUDES** AC power supply. The power adapters below are optional.



P-TAP 1000
Use with a standard battery P-TAP power source.



XLR 1000
Use with a standard 4 pin XLR camera battery power source.



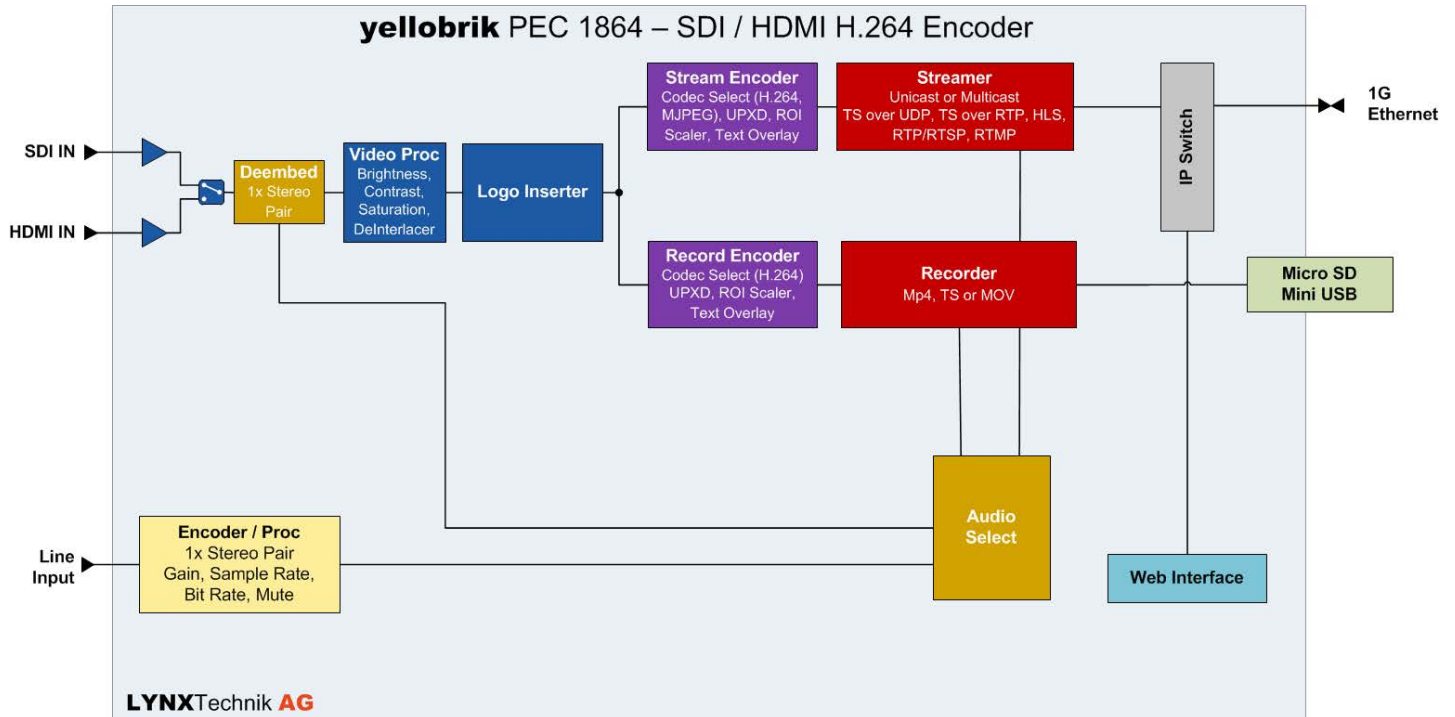
Technical Specifications

Video Inputs	1 x 75 Ohm BNC SDI input; 1 x HDMI 1.4a, Type A connector
Video Formats SDI and HDMI	SMPTE 424M (3G HDTV), SMPTE 292M (1.5G HDTV), SMPTE 259M (SDTV) <ul style="list-style-type: none"> • 1080p 50/59/60Hz (Level A) • 720p 23/24/25/29/30/50/59/60Hz • 1080i50/59/60Hz • 1080p23/24/25/29/30Hz • 1080p23/24/25Hz • 525, 625
Video Formats HDMI only	<ul style="list-style-type: none"> • WUXGA (1920x1200) • WXGA (1280x768) • XGA (1024x768) • SVGA (800x600) • VGA (640x480)
Video Encoder	H.264 according to MPEG-4 AVC Part 10; ISO/IEC 14496-10 <ul style="list-style-type: none"> • High, Main and Baseline profile support • 2.0, 3.0, 3.1, 4.0, 4.1 and 4.2 level support • Bit Rate: 200kbps to 16.000kbps MJPEG compliant to ISO/IEC IS 10918-1 ITU-T Recommendation T.81
Audio I/O	2x 3.5mm stereo jack (black) <ul style="list-style-type: none"> • Unbalanced analog line audio input - black jack • green jack (not active - not used)
Audio Encoder	MPEG-4 AAC LC according to ISO/IEC 14496-3 <ul style="list-style-type: none"> • Bit Rate: 32 kbps to 256 kbps • 2 channel stereo from video or external audio input
Protocols	<ul style="list-style-type: none"> • RTMP, RTP/RTSP, TS over UDP, TS over RTP, HLS • Unicast and Multicast support Note: PEC 1864 does not support RTMPS
Recording Medium	1x MicroSD card slot <ul style="list-style-type: none"> • Micro SDHC (SD2.0) - Speed Class 10 or higher recommended • Supported formatting FAT32, NTFS 3.1, exFAT 1x Mini-USB Type "B" socket <ul style="list-style-type: none"> • USB 2.0 • Supported formatting FAT32, NTFS 3.1, exFAT
Recording Format	<ul style="list-style-type: none"> • .mp4 ; .ts ; .mov Note: Max recoding time for .mov and .mp4 is 4hours
Network	10/100/1000 Ethernet (RJ-45)
Power	+12VDC @ 3.2W nominal (-supports 5 - 14VDC input range)
Physical	Size: 124mm x 90mm x 22mm (4.88" x 3.54" x 0.86") including connectors Weight: 230g (8.11oz)
Ambient	5 - 40°C (41 - 104°F) 90% Humidity (non condensing)
Model #	PEC 1864 - (EAN# 4250479325005)
Includes	Module, AC power supply

Specifications subject to change

Functional Diagram

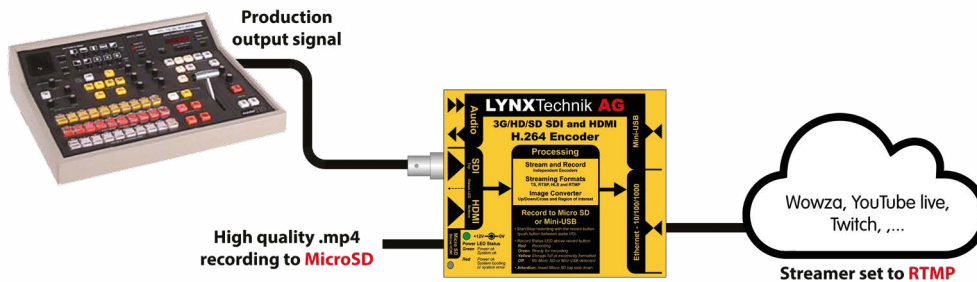
The PEC 1864 functionality is shown below in the diagram.



Applications

The features of the PEC 1864 make it an ideal solution for a wide range of different applications. Below are a couple of examples:

Stream live to a Content Delivery Network (CDN) and make a backup recording at the same time



Multicast a video feed into a network

