

Pixel Xtream®

L2200 Streaming Encoder

Ingest, Encode, Transcode, and Stream live HD and SD video and file-based content

PLUS – intelligent, on-the-fly video enhancement optimized for video quality and performance

Capture from Live or Recorded Video

- SDI, IP, and analog ingest
- HD 1080i, 1080PsF, 720p
- NTSC, PAL

Encode / Transcode and Stream

- Real-time output up to 720p with MPEG-2 TS and WMV streaming

Simultaneous Output to File for Future On-demand use

High Volume, High Speed, Automated Transcoding

- Ingest User Generated Content and Professionally produced media files
- Deliver files to distribution servers and web publishing points

Intelligent, On-the-Fly, Adaptive Video Enhancement Engine

- Delivers superior video quality at reduced bit rates
- Monitors source video and applies enhancement filters when and as needed, to deliver optimal quality
- Patented, low latency, low overhead technology allows always-on operation

Extensive Format Support

- All popular web and mobile formats
- HD and SD
- Includes H.264, Flash, MPEG-4, 3GP and WMV/VC-1
- **PLUS** optional MXF broadcast formats

Powerful Tools Reduce Setup Times to Just Minutes

- Intuitive user interface
- Simple access to codec settings
- Always-on, adaptive video enhancement mode
- Unique side-by-side preview
- Pre-defined profiles

Scalable from Single Server to Multi-Server Deployment

- Monitored and controlled with the optional NetCommander application

Work Flow Integration

- Easily integrated using simple command script



The **Pixel Xtream L2200** is an HD + SD streaming media encoder and transcoder. It has the ability to ingest live video, streams, and video files. It can encode or transcode in real-time and either stream out, save to a file, or both. It is ideally suited to meet the challenges of repurposing and monetizing content for a variety of web, mobile, IPTV and broadcast platforms.

The **Pixel Xtream L2200** allows users to minimize bandwidth usage and deliver superior visual quality at all bitrates while it automates ingest and delivery of real-time and on-demand content to new media platforms. Using Ipera's patented intelligent video enhancement engine, **Pixel Xtream L2200** analyzes the source video and automatically removes existing noise, distortion, and artifacts while minimizing or preventing new distortions. This results in lower bitrates for all source content while visual quality is boosted with sharper contrast, improved brightness, more vibrant color, and sharper edges and details.

Pixel Xtream L2200's intuitive interface gives you complete control over every aspect of the process. Capture and stream a live video source, simultaneously ingest it to a file archive, or convert a single file into any number of target formats. The low latency of the video enhancement engine enables an always-on adaptive enhancement mode. This removes the need for manual settings to accommodate scene changes or varying source video quality without impacting real-time HD performance. Pre-defined or User-defined job templates specify capture and encode settings, video and audio processing functions, and delivery options. They can be easily reused, further automating production and improving efficiency.

Pixel Xtream L2200 can be run as a stand-alone unit or as part of a multi-node server farm automating enterprise-wide operations under control of the optional **NetCommander** management application. It integrates easily into digital media workflows to effortlessly deliver better quality HD and SD video at the lowest bitrates possible.



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Pixel Xtream® L2200 Streaming Encoder

Features

- Live streaming
- Stream from source files
- Capture/encode to files from live video
- Capture/encode to files from recorded inputs
- Capture/transcode to files from streaming video
- Archive to files during live streaming
- Transcode from source media files
- Proc amp controls, gamma correction
- Side-by-side Preview
- Motion compensated de-interlacing
- Frame size conversion
- Frame rate conversion
- Color space conversion
- Aspect ratio conversion
- PAL/NTSC conversion
- SD/HD conversion
- Logo/watermark insertion
- Batch file processing
- Multiple target outputs
- Watch folder automation
- Settings templates for common targets
- Multi-pass VBR and CBR transcoding
- Direct DVD import

PLUS

Intelligent, adaptive video enhancement with always-on mode:

- De-blocking
- De-ringing
- De-mosquito
- Contrast and brightness adjustment and balancing
- Color and skin tone adjustment and balancing
- Edge and detail enhancement
- 3D noise reduction and removal

Pixel Xtream L2200 Streaming Encoder



- don't adapt to content changes and frequently degrade quality



Formats Supported

Input Video

- HD: 1080i60/59.94/50, 1080PsF24/23.976, 720p60/59.94/50
- SD: NTSC, PAL
- IP: WMV

Video Codecs

- MPEG-1, MPEG-2, MPEG-4
- H.263, H.264, Flash
- Windows Media, VC-1, DivX, XviD
- DV25, DV50, DV100, DVCPPro, DVCPPro HD
- AVC-Intra, JPEG 2000, D10 (IMX)
- RAW/RGB, YUV

Audio Codecs

- AAC, AMR
- MP3, MPEG-1 Layers 1/2
- WM Audio, WAV
- PCM

Media Containers

- 3GPP, 3GP, 3G2
- MP4, FLV, F4V, M4V
- MPEG-2 TS, MPEG-2 PS, M2V
- WMV, ASF, AVI, VOB
- MXF (OP1a, OPAAtom)

Inputs

Video

- HD/SD-SDI (BNC)
- Analog - Composite, S-Video, Component (single breakout cable supports all formats)

Audio

- Embedded SDI audio
- Balanced stereo (2 x XLR)
- Unbalanced stereo (2 x RCA)

Connectivity

- USB** 2 rear panel 2.0/1.1 ports
- Ethernet** 1 RJ45 10/100baseT port
- Video** 1 VGA port

Hardware

- DVD** 1 DVD drive

Dimensions & Weight

- rack mount** 3RU x 19" W x 22" D
- weight** 35 lbs/16 kg

Power

- consumption** 150 W, 100-240V, 50/60 Hz

Warranty

- 1 year limited hardware warranty

