

Pixel Xtream®

New Media Transcoder 2.0

High speed, high volume, automated transcoding for web, mobile, IPTV, and broadcast platforms

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

Repurpose and Monetize Content

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

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

Best-in-Class Performance

- Video Quality
- Speed and Throughput

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

- Monitors source video and applies enhancement filters when and as needed, to deliver optimal quality
- Patented, low latency, low overhead allows always-on operation

Automated Production

- Hands-free operation using multiple Watch Folders
- Simple rules to define where source files are located, what to do with them, and where to save the output files

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 Workstation to Server Farm

- Monitored and controlled with the optional NetCommander application

Work Flow Integration

- Easily integrated using simple command script



The **Pixel Xtream New Media Transcoder 2.0** is ideally suited to meet the challenges of repurposing and monetizing video content for new media platforms. It is a high volume multi-format, file-based video transcoding software application delivering best-in-class speed, throughput and video quality.

Pixel Xtream delivers superior visual quality at all bitrates as it automates delivery of content to on-demand and file-based platforms. Using Ipera's patented intelligent video enhancement engine, **Pixel Xtream** analyzes the source video and automatically removes existing noise, distortion, and artifacts while minimizing or preventing new distortions. This allows transcoding to 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 is a multi-threaded application that can simultaneously convert a single file into any number of individually configurable target formats. It integrates easily into file-based digital media workflows with its automated Watch Folder and web publishing features. It can run as a stand-alone application or as part of a multi-node server farm automating enterprise-wide operations under control of the optional **NetCommander** management application.

Ipera's unique transcoder design provides powerful tools that reduce setup times and the need for constant operator monitoring and interaction. The **Pixel Xtream** always-on, adaptive, video enhancement mode continuously delivers optimal quality video regardless of scene changes or different quality sources. Production automation and efficiency are further improved with features such as side-by-side preview, pre-defined target profiles, and user-defined job profiles.



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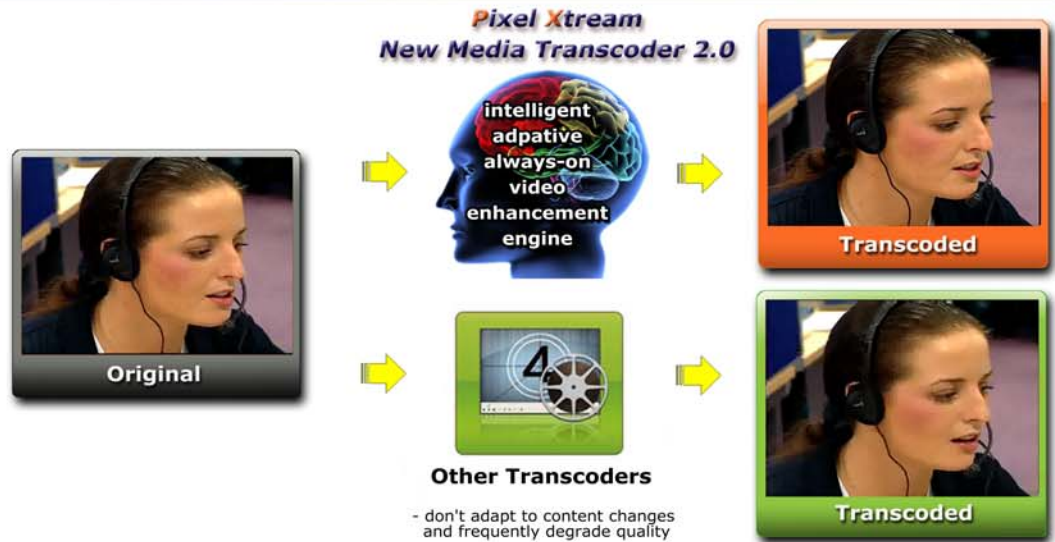
Features

- Batch file processing
- Automatic input format detection
- Multiple target outputs
- Multiple watch folders
- Multi-threaded:
 - automatically detects system resources and configures to maximize throughput
 - supports simultaneous transcodes
- Side-by-side preview
- Settings templates for common targets
- Motion compensated de-interlacing
- Multi-pass VBR and CBR encoding
- Logo/watermark insertion
- Frame size conversion
- Frame rate conversion
- Color space conversion
- Aspect ratio conversion
- PAL/NTSC conversion
- SD/HD conversion
- 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



Formats Supported

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 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)

Benchmark Data

Faster than Real-Time Processing with Intelligent Video Enhancement Active

Use Cases	Target Format	Source Format	
		25 Mbps DV/AVI	5 Mbps SD MPEG-2TS
Mobile	3GPP H.264 320 x 240 128 kbps	12.6 X	13.7 X
	iPhone 640 x 480 kbps	5.1 X	5.9 X
Web	Flash 9 480p 2 Mbps	4.3 X	5.1 X
	MP4 H.264 640 x 480 700 kbps	5.1 X	5.9 X
	WMV VC-1 480p 1.5 Mbps	0.9 X	1.2 X
Broadcast IPTV	MPEG-2TS H.264 480p 800 kbps	5.5 X	5.8 X

note: all data is expressed as multiples of real-time using dual Xeon E5450 3GHz CPUs with 4GB RAM

System Requirements

OS: Windows Server 2003/2008
Windows XP/Vista

CPU: 1.6 GHz min (> 2 GHz recommended)
Dual core

RAM: 512 MB min (> 2 GB recommended)

Microsoft DirectX 9.0c or later

24-bit color, min 1024x768 resolution recommended

