PIXFIX™ LIVE - EL Series

PIXFIX

PIXFIX™ LIVE EL1720

With 1 or 2 Channel SDI or up-to 4 Channel IP inputs, this entry level enterprise class ENCODER/TRANSCODER hardware empowers broadcast, education and surveillance segments to deliver multi-screen solutions. With on the fly bit rate using PIXABIT™ AND stream maximization techniques using PIXMAX™, the EL Series delivers best bang for your buck making it an ideal product for your entry level enterprise needs.

PRODUCT AT A GLANCE
Entry level enterprise Encoders and Transcoders for Live video delivery for Multi format multiscreen applications for low channel count broadcasting needs.

Applications

PIXFIX™ LIVE-EL Series delivers encode/transcode performance with **PIXFLEX™** its state of the art software driven media processing engine for entry level enterprise needs – that includes Single or two channel broadcasters who want multi-screen streaming capabilities and to those market segments who want non-stop IP Video delivery capabilities.

MODEL
o EL1720 is capable of delivering Multi bitrate, Multi format outputs integrates4 IP inputs or 2 SDI/HDMI input gives you non-stop industry grade performance.

Broadcasters
For single channel and two channel SDI input or up-to 4 Channel IP input broadcasters, the PIXFIX™ LIVE-EL Series delivers the most optimal solution for delivering IP Video for multi-screens. Capable of delivering enterprise class features for low channel count customers in both pre-processing and post processing features – the product packs in with lot of punch.

Education
For non-stop enterprise class Encoding/Transcoding needs for both Live and On demand/On premise needs, PIXFIX™ LIVE-EL Series with either PIXFIX™ STREAM or SYNERGY™ CLOUD solutions can deliver the best of the breed video delivery for multiple screen.

Surveillance
In a multi camera environment for monitoring purposes with the PIXFIX™ LIVE EL-Series ability to take in RTSP inputs, is an ideal solution for large volume monitoring and archiving.

Features and Benefits

* Encoding and Transcoding through state of the art PIXFLEX™ engine.
* Highly configurable, through software based media processing and acceleration mechanics using RAFT™, SAND™ and HELM™ video algorithms.
* Flexible input interfaces across SDI, IP and multiple other types of interfaces.

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- Output Multi bit rate management through PIXABIT™ offering granular multibit rate outputs.
- Backup video storage and IP redundancy available through PIXSAFETY™.
- Multi Codec /Multi format available for any type of IP Video stream delivery.
- Enterprise class 1RU or 2RU, rack mountable

General specifications for EL1720

INPUT INTERFACES
- Composite, Component, HDMI with Embedded Audio, S-Video, DVI, ASI, SD/HD-SDI with embedded raw or compressed (Dolby™) audio, Multiple Gigabit IP interface

INPUT STREAM
- TS/ UDP (Unicast and multicast SPTS and MPTS)
- TS/RTP (Unicast and multicast SPTS and MPTS)
- TS/HTTP-SPTS and MPTS
- RTMP, RTSP, HLS, TCP
- H.264 elementary-Annex B MPEG2 PS. MPEG TS,MKV
- MOV, MP4, MXF, Apple Prores, FLV

INPUT VIDEO CODECS
- MPEG2-ML/HL 4:2:2,
- MPEG4 SP/ASP,
- H264 – BP/MP/HP – 4:2:2 10Bit,
- AVC Intra, Apple prores,
- HEVC, VC1
- Fixed and variable frame rate
- Standard and non-standard resolution
- 1080p@60 up to 25Mbps for live delivery
- Error resilience and concealment for erroneous input

INPUT AUDIO CODECS
- AC3, Dolby™-E, DTS express™
- AAC-MPEG2,
- MPEG4 (LC, HEAAC, HEAACv2),
- MPEG4 ALS,
- WAV,
- Up to 8 channels 24 bit audio,
- Up to 96KHz sampling frequency

STREAMING SERVER PROTOCOL (OPTIONAL)
- HLS
- HDS

OUTPUT INTERFACES
- SD/HD-SDI, Multiple Gigabit IP interface with redundancy, ASI, Composite

OUTPUT STREAM
- TS/UDP/RTP Unicast & Multicast, SPTS TS/RTP Unicast & Multicast, SPTS TS/HTTP-SPTS
- RTMP uplink to popular CDNs
- TCP/IP
- MPEG2, H.264 elementary Annex B TS, MPEG-PS, MP4, MOV, FLV, MKV

OUTPUT VIDEO CODECS
- H.264 BP/MP/HP 4:2:2 10 Bit

OUTPUT AUDIO CODECS
- MPEG 1 Layer2/3
- AC3 (pass through), EAC3 (pass through), Dolby™-E (pass through), DTSTM (pass through)
- AAC-MPEG2
- AAC-MPEG4 (LC, HEAAC, HEAACv2) MPEG4 ALS, WAV, LPCM
- Up to 8 channel, 24 bit audio
- Up to 96 KHz sampling frequency
- Loudness Control
- Multi-channel audio coding in single channel

PRE-PROCESSING,ENCODING & MISC FEATURES
- Standard and non-standard resolution
- Hue, Contrast, brightness, saturation and gamma correction
- Dynamic profile management through PIXMAX™
- On the fly transcode through PIXIT™
- Encode, Transcode acceleration through RAFT™, HELM™, SAND™ algorithms
- De interlacing through BOB, Motion adaptive, IVTC modes
- Perceptual quality based video scaler
- Multiple alpha blended logo overlay

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- Smooth Streaming
- DASH
- RTMP
- RTSP
- HTTP Fragments – Push to edge server
- HTTP origin configuration for caching

PLATFORM SPECIFICATIONS: EL1720
- 4 X SD/HD SDI Input or 4 X IP Input
- 2 X Gigabit Ethernet output
- 1RU form factor
    - 1.7" X 17.2" X 19.85"
    - 43mm X 437mm X 509mm
- 400W SMPS
- 110-240V input
- 500GB storage
- Optional
    - Hot-swappable Power Supply
    - Hot-Swappable HDD with Raid
    - Up to 6TB available
    - High availability through PIXSAFETY™
- Rack mountable

- Static/scrolling text overlay
- Clock/Running time overlay
- Cropping/Letter boxing
- Look ahead based encoding
- Low latency encoding
- Deblocking filter
- CBR, VBR and constrained VB streams
- Scene characteristics based encoding
- Configurable display aspect ratio and preserving DAR during scaling
- Thumbnail generation
- CEA 608/708 pass through
- Lip Sync correction
- Delayed output for render/playback synchronization
- Host of appliance control, monitoring and HW diagnostic features

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