

PAIPER

STANDALONE MPEG SYSTEM



THE PAIPER 707 ED SYSTEM IS A PROFESSIONAL STAND-ALONE MULTIMEDIA SYSTEM FOR REAL TIME AUDIO/VIDEO ENCODING, DECODING, TRANSCODING OF MPEG 1/2/4 WITH UNICAST/MULTICAST LIVE VIDEO STREAMING OVER IP NETWORKS. IT CAN BE USED IN A WIDE RANGE OF APPLICATION:

- A/V HARDDISK RECORDING
- ENCODING, DECODING, TRANSCODING
- STREAMING IP SERVER/CLIENT
- IPTV
- VOICE-OVER-IP COMMUNICATION
- VIDEOCONFERENCING
- A/V ENCRYPTION
- DVB MULTIPLEXING/DEMULTIPLEXING
- MULTINORM TRANSCODING
- SECURITY
- CONTENT STORAGE AND DISTRIBUTION
- TELEMEDICINE
- DISTANCE LEARNING AND VIDEO ON DEMAND

FOR A PROFESSIONAL CONTENT CREATION, MANAGEMENT AND DELIVERY AT A GLANCE, ALL OPERATIONS ARE DONE IN REAL-TIME, THANKS TO A POWERFUL DSP PROCESSOR.





PAIPER 707-ED È UN SISTEMA PROFESSIONALE, COMPLETAMENTE STANDALONE, PER ENCODING, DECODING E STREAMING BROADCAST IN TEMPO REALE OPERANTE SU PROTOCOLLO IP.

PROGETTATO PER APPLICAZIONI DI STREAMING DOVE SIA RICHIESTA ALTA AFFIDABILITÀ, È COMPLETAMENTE CONFIGURABILE E CONTROLLABILE DA REMOTO ATTRAVERSO RETI INTRANET E INTERNET.

GRAZIE AL PROPRIO SISTEMA DI GESTIONE FCU (CONFERENCE CONTROL UNIT), È POSSIBILE EROGARE E FRUIRE SERVIZI DI STREAMING ON DEMAND O LIVE (CANALI TEMATICI, PAY-TV, PAY-PER-VIEW, TRASMISSIONI CON ACCESSO CONDIZIONATO E SICURO, BUSINESS TV).

I POTENTI DSP UTILIZZATI, SI AVVALGONO DI AVANZATI ALGORITMI DI CODIFICA E DECODIFICA, OTTENENDO COSÌ FLUSSI VIDEO CON RISOLUZIONI E PROFONDITÀ DI COLORE MOLTO ELEVATI.

IL SISTEMA GESTISCE FUNZIONI PARTICOLARI COME IL DEINTERLACCIAMENTO, IL TELECINEMA INVERSO, IL LINEAR FILTERING, L'ADVANCED SCALING E TANTE ALTRE IMPOSTAZIONI CHE FANNO DI PAIPER 707-ED UN POTENTE E PROFESSIONALE STRUMENTO DI LAVORO.



INPUTS

Video PAL/NTSC

1x Composite CVBS
 1x Y/C S-Video

Audio

1x unbalanced analog L/R (RCA)

OUTPUTS

Video PAL/NTSC

1x Composite CVBS
 1x Y/C S-Video

Audio

1x unbalanced analog L/R (RCA)

File

MPEG-1
 MPEG-2 CBR/VBR
 MPEG-4 CBR/VBR
 H.263

Network

1x Ethernet 10/100 autosensing
 SAP, SDP Protocol
 Streaming IP unicast/multicast RTP/UDP
 IPV4, IPV6 Support
 IP Transport Stream

DSP ENCODER

Video

MPEG-1
 MPEG-2 Main Profile, Main Level

MPEG-4 ASP L1,L2,L3 full D1
 H.263 Baseline

Audio

MPEG-1 Layer I, Layer II, Layer III (MP3)
 MPEG-2 Layer I, Layer II
 2-channel consumer grade AAC LC, AAC HE
 2-channel consumer grade AC-3
 G.711, G.723.1, G.726, G.729 and DTS
 Sampling freq: 8,16,22.05,24,32,44.1,48,96 KHz
 Bits per channel: 16,20,24,32

Advanced Functions

Adaptive field/frame motion estimation and DCT type 4:2:2 to 4:2:0 conversion
 Motion estimation with half-pel accuracy
 8-tap horiz. filter and 4-tap vert. filter
 Fixed frame rates of 29.97 (NTSC) or 25 (PAL)
 Variable frame rates in low delay mode
 Constant or variable bit-rate from 64 Kb/s to 15 Mb/s
 Horizontal sizes up to 720 pixels
 Vertical sizes from 120 to 608 lines
 Programmable GOP structure and length
 Quantization control with Qmin, Qmax
 Extended resolution coding for VBI
 Integrated VCR
 Presets and fast configuration
 Filtering
 Audio & Video adjustments
 Video noise filtering
 Frame resizing

STORAGE

2x 500 Gb (internal)*

CONTROL

Graphical WEB Interface
 1x RS-232

INSTALLATION

Dimensions

1RU Paiper Standalone Mpeg System
 430mm(L) x 420mm(P) x 44mm(A)
 mountable in 19" standard rack 1U
 5 Kg

Power

100-240 VAC auto range
 120W maximum consumption

* optional feature