ESDR
SD/HD/UHD H.265(HEVC) support
12ch Encoder/Streamer/Decoder/Recorder
Broadcasting Solution

The rapidly changing era of IP media demands more powerful and efficient solutions. CASTWIN ESDR accepts V/A signal, network stream, NDI, WebRTC, media file, remote screen and voice data with resolution ranging from SD to UHD and performs real-time encoder, streamer, recorder in real-time next generation compression format H.265 (HEVC), H.264 and MPEG-2. It also outputs A/V stream and does file recording after decoding 12 channels real-time stream, NDI, WebRTC, remote screen and voice data.

Multi Function

· 12 channel broadcasting class 4K H.265/264 encoder/stream/ recorder equipment with low-latency return signal monitoring and UHD/HD/SD 12-channel decoder equipment with A/V signal output
· Input signal conversion and MXF, AVI, MOV, MP4 etc. file recording support
· Up to UHD resolution of SDI/HDMI/Analog signal Input/Output
· Convenient single device setting and operation management
· Intuitive GUI
· Saving cost of purchase UHD & H.265 support device
· 100% interlocking with other systems due to ISO/IEC ITU-T 13818-2 MPEG2-TS international standard codec support
· VFW/Dshow standard compatibility with existing Capture Devices (Deltacast, Decklink, AJA, Osprey, BlueFish, etc.)
· Direct input of Video/Audio signals does not require any other equipment
· A 100% compatibility with IP Camera, nDVR, WME (Windows Media Encoder), FME (Flash Media Encoder) and other encoders
· Preview generator for real-time input/output source monitoring
· H.265 reduces file storage capacity, reduces real-time stream bandwidth (double compression efficiency compared to existing H.264 format)
· Minimize economic losses due to integrated resolution support
· Facebook, Youtube, Zoom, Skype, Hangouts, etc support
· Multi bitrate streaming/recording, RTMP/HLS streaming engine support

Application

· High-quality broadcast services in low-bandwidth networks
· High-definition broadcast IPTV service
· Government and Parliament Internet Broadcasting
· Professional broadcasting company and in-house broadcasting service
· IPTV N-Screen media service
· Christian and various religious internet broadcasting and IPTV services
· High-quality relay system for live streaming
· Broadcasting service through 4K video decoder
· Linked service with existing broadcasting equipment and broadcasting mobility secure via interworking with SV-MCaster
· Monitoring service through physical source output of input source
· H.265 format-only encoding and decoding service
· Maximize broadcasting service through IP Camera, CCTV, DVR interworking

Features

· SD/HD/4K V/A signal, Network Stream, NDI, WebRTC input/output support and No-delay SV-ScreenCaptue S/W support for remote computer screen/voice signal broadcasting
· Video/Audio Lost, Freeze/Black/Still Frame, and Audio Silence Error Detection algorithm; SMTP, Logging, Alarm support
· 12 channels real-time 4K Encoding/Streaming/ Decoding Recording
· Support Delay and TimeShift
· Support MAM(Media Asset Management)
· Chroma 4:4:4
· H.265, H.264 Encoder Parameter setting support
· International standard stream equipment and SV-CloudMedia Platform compatibility
· Resolution 480i/p, 720p, 1080i/p, 2k, 4k, 3D support
· SRT, RTP, UDP, RTMP, HTTP, MMS, MMSH, HTTPS, NDI, WebRTC and SV-Screen Capture S/W support for remote computer screen/audio
· RTMP, UDP real-time stream output
· H.265 (HEVC), H.264, MPEG-2, VP8/9, Divx, Xvid and WMV real time compression/streaming/storage
· Various file storage formats such as MPEG2, MPEG, TS, TP, MKV, AVI, MOV, MP4
· Audio Mixing, 16 channel audio processing
· De-interlacing, Audio monitoring, Aspect setting
· VBR/CBR mode
· Audio level-meter
· SD to UHD up/down scaling
· Change dynamical input/output
· Deltacast, AJA, Decklink, BlueFish Board support
· CUDA, OpenCL, Intel QSV H.264/AVC GPU-accelerated 4K

CASTWIN ESDR Architecture

CASTWIN ESDR is the best broadcast-quality encoder/decoder system with 12-channel Encoder/Streamer/Decoder/Recorder and Source Preview function supporting UHD resolution and H.265.

CASTWIN SV- ESDR

DMS-9245U