Major Function Blocks

Data Callback

Event Callback

Capture, Recording, Streaming, Playback and Editing on One Library

2017.9.29, 1.1.0.176.0 - Linux

Capture

- High Performance Renderer
  - Thumb Draw,
  - Mirror, Clone, Region, 3D
- Image Snapshot
  - Single, Continuous, Cropping, Up/Down Scaling
  - BMP, JPG, PNG, TIF
- Deinterlace Engine
  - Motion Adapter, Blending, Filter Triangle
- Alpha Blending Engine
  - Text, Scrolling Text, Picture, Memory, Chroma Key
- Auto Signal Detection
  - Plug, Unplug, No Signal, Format Changed
- Video, Audio and VANC Streams Capture
  - Capture Card, Sound Card, Desktop
  - USB Camera, IP Camera, IP Video Server

Recording

- Sync & Clone Recording
- Time Shifting & Pre-Event
- Multi-Tracks & Audio Mixer
- Multi-Streams Channel Recording
- Multi-Streams Share Recording
- Multi-Streams 3D Recording
- AVI, MP4, ASF, WMV, FLV, MOV, TS, M3U8, WAV, SCF
  - Misc. File Formats, File Repair
- RAW, MPG2, H264 3D, H265, AAC
  - Baseline, Main, High Profile, CAVLC, CABAC
  - Intel® Media SDK
  - NVIDIA® CUDA/NVENC™
  - AMD® VCE™
- Transition Effect
  - Action Script, Alpha Blending, Blinds, Transform, Scaling, Rotation
- Video Cropping Engine
- Video Scaling Engine
- Alpha Blending Engine
  - Text, Scrolling Text, Picture, Memory, Chroma Key

Streaming

- 2D/3D Universal Streaming Client
  - Capture, Record, Display
- 2D/3D Multi-Streams Streaming Server
  - Delay Live, Audio Mixer
- ONVIF
  - Server
  - Client
  - Emulator
- WebRTC
  - P2P
  - Chat Room
  - Multi-User
- MMS
  - Public
- NDI
  - NewTek
- HLS
  - HTTP
- RTSP
  - 4MS DELAY
  - UDP/TCP/HTTP/MIP/RAW-UDP
- TS
  - CBR
  - UDP/TCP/HTTP/MIP
- RTMP
  - Encrypt
  - Public Server
- RAW, MPG2, H264 3D, H265, AAC
  - Baseline, Main, High Profile, CAVLC, CABAC
  - Intel® Media SDK
  - NVIDIA® CUDA/NVENC™
  - AMD® VCE™
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Playback

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- Alpha Blending Engine
  - Text, Scrolling Text, Picture, Memory, Chroma Key
- RAW, MPG2, H264 3D, H265, AAC
  - Intel ® Media SDK
  - NVIDIA ® CUDA™
  - AMD ® UVD™
- Play, Pause, Stop, Step, Seek and Speed Control, Frame by Frame

Editing

- File Transcoding
  - Intel ® Media SDK
- File Repair
  - MP4
- File Export
  - Multi-Segments
- File Merge
  - Multi-Files
- Video and Audio Streams Read and Write

Tools

- RS232/RS422/RS485
  - Access Control
- CD&DVD Disc Burning
  - CD, DVD, DVD-RW
- Assistant Capture
  - Sound Card, Desktop
  - USB Camera, IP Camera, IP Video Server
- Virtual Camera
  - Virtual DirectShow Capture Filter