



# Channel-in-a-Box



World's best-selling Playout and Channel Branding product suite

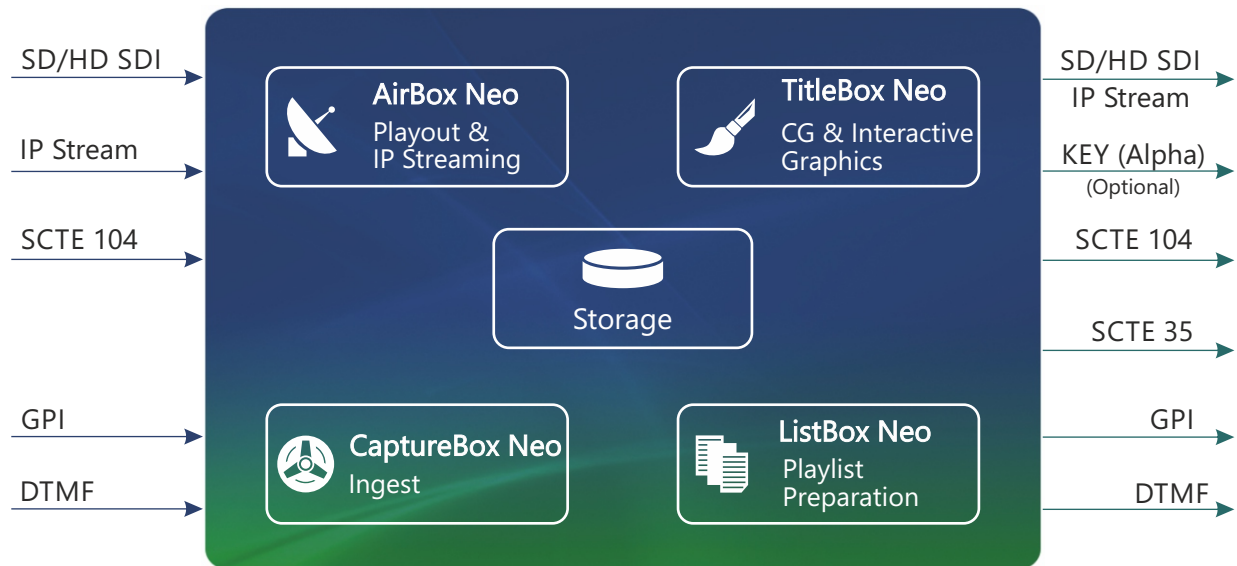
# Solution Overview

PlayBox Neo Channel-in-a-Box is a turnkey playout server solution for broadcasting a single or multi TV channel both available in HD or UHD.

It provides a seamless workflow to keep a channel on-air by combining scheduling, ingest, playout, CG and interactive graphics within one box and remote tools to enhance QC checks, preparation and monitoring. The output can be SDI or IP streaming and suitable for a variety of applications including traditional broadcast TV, pay-TV, playout centres, satellite operators, etc..

By leveraging on the SaS in the cloud or traditional platforms on-premise, PlayBox Neo Channel-in-a-Box offer media ingest with CaptureBox Neo, playout automation with AirBox Neo, interactive CG and graphics with TitleBox Neo and scheduling with ListBox Neo. ListBox Neo creates schedules for AirBox Neo and rules can be created for TitleBox Neo to fully automate the CG and interactive graphics for a powerful automatic TV channel. TitleBox Neo interactive CG and Graphics can be internally keyed or optional external keying if you have a Down Stream Keyer (DSK).

## Basic Components Scheme



### AirBox Neo

- Automated mixed playout of all supported compressions and containers in a single playlist
- Closed caption playout support (embedded or external MCC 1.0 / 2.0) for EIA 608, EIA 708 and XDS
- GPI I/O interface
- TitleBox Net Control
- Live Input: UHD/HD/SD SDI, IP stream - MPEG-2 TS (UDP/RTP), HTTP(S), RTMP, MMS(H), NDI input
- Output: UHD/HD/SD SDI and UDP/RTP/RTMP
- Switcher & Matrix Switcher Control (Kramer, Leitch, Network Electronics, Pesa, Quartz, Grass Valley Concerto/Acapella, Sierra, Elpro, Snell, Utah, Miranda, Ross, BlackMagic Video Hub, BlackMagic ATEM TV Studio )
- DTMF & SCTE 104 Decoding for Commercial Insertion
- SCTE-35 and SCTE-104 output for Commercial Insertion
- Multi audio support with EBU R128/ITU.BS.1770 Loudness normalisation (optional) Dolby AC3 Decode/Encode support (optional)
- Detailed Logging (AsRun log, System log) for verification and playlist reconciliation

# Channel-in-a-Box Sample Workflows

## CaptureBox Neo

- High-quality capturing in variety of compressions
- Automated RS-422 or VTR control with batch capturing lists
- Scheduled capturing of satellite feeds with automated channel switching
- File splitting based on duration VU/peak audio meters are available for precise audio level fine-tuning

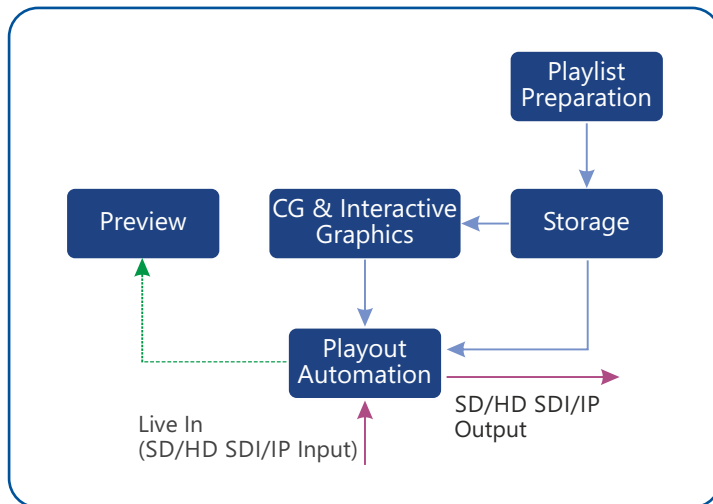
## TitleBox Neo

- TitleBox Neo is an interactive graphics manager which creates, displays and controls fascinating multi-zone screens with rolls, crawls, animations, clocks, station logos and more. All running objects are mixed and blended to each other in real time, including animations. Each and every CG object can be edited while being transmitted on-air.
- All graphics are 24-bit true colour (16.7 million colours) with 8-bit Alpha channel (256 transparency levels). These colours can be applied to font face, border, shadow and text background. Field-based sub-pixel rendering ensures smooth animation and rolling text at any speed.
- Multiple graphics objects can be programmed to run simultaneously or sequentially on a single or multiple layers with just a few mouse clicks.
- Dynamic text data coming from text, rich text, CSV text, RSS feeds or ODBC-compliant databases can be linked to any text object and updated on-screen in real time.

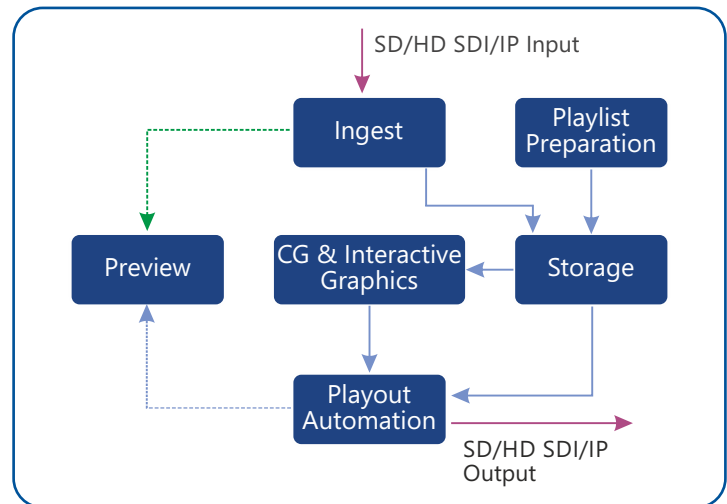
## ListBox Neo

ListBox Neo is an offline programme schedule creation and playlist editor, perfect for schedule creation and schedule editing with a clip trimmer for simple programme editing. ListBox Neo enables text searching, clips copying/pasting, schedule printing, etc. and is the main tool for the Program Editors' to create and edit schedules many days, weeks or months in advance.

### Mixed SD/HD Playback with LIVE IN switch and Interactive Graphics



### Mixed SD/HD Playback with Interactive Graphics & Ingest



# Company

Building on nearly 20 years of successful innovation, PlayBox Neo is advancing its role in the multi-platform future of broadcasting. Having pioneered the development of high-efficiency server-based and cloud-based playout, we are fully geared for today's world in which broadcasting is expanding to support every scale and type of one-to-many communication:

- Tightly themed channels addressing a global audience
- Local channels supporting a specific corporate venue or college campus
- Supplementary OTT channels supporting major sports, stage or studio events
- Linear and on-demand subscription channels
- Free-to-air national channels
- Continent-wide satellite channels in multiple languages
- Full-scale global channels via satellite, terrestrial and CDN

PlayBox Neo products and solutions today power over 18,000 TV and branding channels in more than 120 countries. Our clients include national and international broadcasters, start-up TV channels, webcasters, interactive TV and music channels, film channels, remote TV channels, corporate information channels and disaster recovery channels.

