# interra systems

# BMP

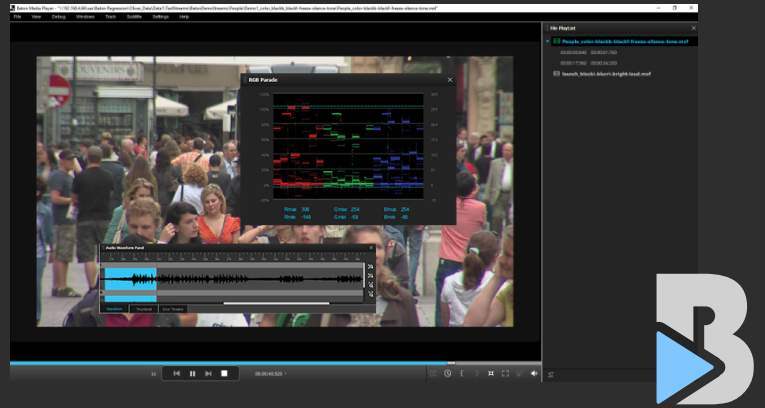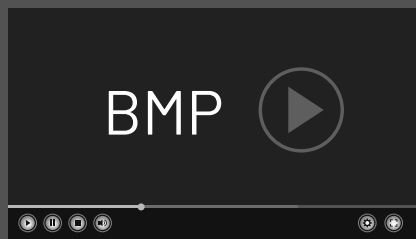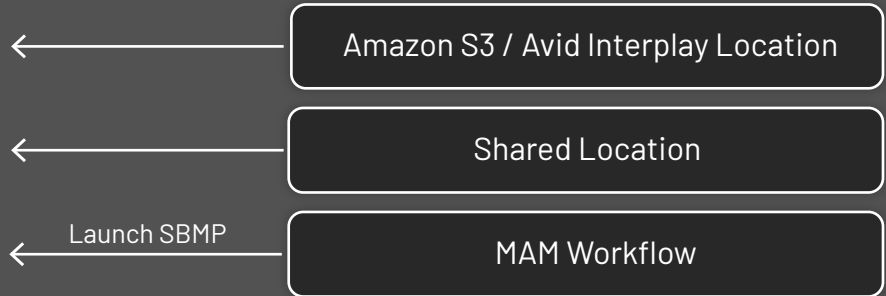## Powerful Industry Grade Media Player

Interra Systems' BMP is a powerful, feature-rich media player for media professionals to play, inspect, and verify audio-video content. BMP supports the widest range of formats and it can easily be integrated with broadcast workflows at any stage for in-depth examination of media, while facilitating collaboration across multiple teams and projects. The visual and technical information provided by BMP ensures that content looks and plays exactly the way it was intended. Supporting SDI playout, and a wide range of audio, video, elementary and container formats, along with extensive support for closed captions and subtitle formats, BMP offers video professionals one of the most comprehensive media players on the market. BMP is offered both as a standalone media player and as an integrated part of BATON®.



## Key Features

- BMP has an intuitive interface to playback media files
- User interface available in Chinese, Japanese, Spanish and Portuguese languages
- Supports SDI playout options using AJA / BlackMagic
- Supports a wide range of audio, video elementary, container, closed captions, and subtitles formats

- Playback from different content locations: Local, UNC, FTP, Amazon S3, Google Cloud, Storage (GCS), Azure Blob storage, HTTP server etc.
- A feature-rich media player supporting a variety of operations like:
  - Create, save and load playlists to play files one by one
  - Play in slow motion, control play duration, and more

- Check attributes of audio and video tracks
- Play, pause, rewind, fast forward, go to timecode, jog and shuttle, move to next/previous frame and so on
- Display audio waveform, loudness meter and audio level meter
- Monitor the color intensity and range during playback using RGB Parade, Vector Scope and Histogram in UI

- Mark-in Mark-out feature to mark the specific sections and play them later for review
- Consecutive and loop playback of marked-in and marked-out portions across different files in the playlist
- Playback of Growing MXF files

## Streams and Formats Supported

**Container Formats**: LXF, MXF, GXF, AVI, MP4, MXF, MOV, MPEG-2 Transport, MPEG-2 Program, ASF, REDCODE RAW(.R3D), DV, DCP, WebM, MKV, VP9 video codec in WebM/ MKV containers

**Packages**: CPL (Composition Playlist Format), ISM (Smooth Streaming), DCP (Digital Cinema Package), Related Audio Video Files, AAF (Advanced Authoring Format), MPEG DASH and Fragmented MPEG DASH, Apple Fairplay, HSS, HLS, Spanned P2 clips, SONY XDCAM, Supplemental IMF package, Supplemental IMF package

**Video Codecs**: Kodak Cineon (.cin), TARGA, TIFF, DPX Video, MPEG-1, MPEG-2, AVC, AVC-Intra, JPEG2000, QuickTime, DV Video, Cineform, DNxHD, MPEG-4, Uncompressed RGB, VC1 Video (Advanced Profile),  Uncompressed YUV (Support extended for Y42B fourcc code), J2C, HEVC (CC in HEVC), Canopus HQ, MPEG-4 SStP, Sony RAW, RED2 video codec, M101 codec, AXS-R7, DNG

**Audio Codecs**: LPCM, AC3, Dolby E, AES3, AAC, MPEG-Audio, WMA Audio, MP3, Vorbis, FLAC audio codec, Dolby Atmos, REDCODE audio

**Elementary Formats**: H.264, MPEG-2 Video, WAV, AAC, AC3, HEVC

**Closed Captioning Formats**: EIA-608 and EIA-708 CC data in MXF, Quantel Closed Caption data in MXF, GXF, LXF formats and in MPEG2 and H.264 User data, Divicom 608, SCTE-20 608 CC data in MPEG-2 Video

**Subtitle Formats**: CineCanvas in DCP, STL, WebVTT, WebVTT inside HLS, SRT, SAMI, Scenarist SCC, TTML, TTML-DFXP, TTML-SMPTE2052, ASS, iTunes, CineCanvas, VBI lines, IMSC1 present in MXF, ARIB

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