ViBE Mosaic Channel Generator

MOASIC CHANNEL GENERATION

To easily choose their desired program from the TV bouquet, the end user can call-up the mosaic channel stream provided by IPTV, cable, and satellite providers.

Mosaic channel generation can be a complex process involving expensive, SDI-based, multi-channel compositing systems. Many operators forgo a mosaic channel because of the expense of such solutions. The Thomson ViBE Mosaic Channel Generator is a simple and cost-effective solution that allows operators of all sizes and platforms to generate a user-friendly channel displaying their bouquet for their subscribers.

Key Benefits
The ViBE Mosaic Channel Generator brings a number of advanced benefits to any digital television operation. It is a 1 RU integrated solution with multiple-channel inputs, mosaic background layout keying, and mosaic channel video and audio management. Both MPEG-2 and H.264 compression standards are supported for the input channels as well as for the output mosaic channel encoding.

Its flexible hardware platform is perfectly suited for both legacy ASI headends as well as IP-capable operations with an ASI output, four ASI inputs, or up to four Gigabit Ethernet inputs and outputs.

Whether you’re an IPTV, cable, or satellite operator, the ViBE Mosaic Channel Generator is designed for ease of use, whether you’re operating in standard-definition (SD) using MPEG-2 or H.264 compression standards, or both. It handles MPEG-2 MPTS or SPTS inputs or encoded PIP streams generated by any standards encoders such as ViBE Premium encoders. Its built-in mosaic builder allows you to specify channel location and size, the background layout, and the composition of any layered text insertion.

The ViBE Mosaic Channel Generator gives you a ready-to-air mosaic channel with video stream creation, audio streams from selected channels, and PSI signaling information.

A Compressed-Domain Approach
By using a compressed-domain approach, the ViBE Mosaic Generator enables digital television operators to produce an MPEG-2 or H.264 mosaic transport stream in a simple and cost-effective way.

Equipped with ASI or IP inputs, the ViBE Mosaic generator receives compressed TV channels over MPEG-2 Transport Streams (MPEG-2 or H.264). The operator chooses the TV channels—from the SPTS/MPTS—and defines the spatial location of each channel on the configured mosaic page.

For a fully customized mosaic stream, a video editing toolbox enables the operator to upload the mosaic backgrounds, logos, etc.

Advanced Audio Processing
From simple pass-through to audio transcoding, the ViBE Mosaic Generator provides bit rate transcoding, audio re-sampling, left and right level adjustments, stereo-to-mono conversion, and more. For bit rate reduction, it also enables audio transcoding using several compression standards such as HE-AAC, AAC-LC, or MPEG-1 Layer II.

Each thumbnail in the mosaic channel can be associated with an audio channel.

Superior Configuration and Supervision
The ViBE Mosaic Generator features remote access capabilities that let you configure and supervise it from any standard web browser. An embedded SNMP agent is also available for centralized configuration monitoring management.

KEY FEATURES

- MPEG-2, H.264 video channel mosaic generation
- MPEG-2 and H.264 decoding
- Live MPEG-2 transport stream inputs
- Up to four ASI inputs
- Up to four Gigabit Ethernet inputs
- MPEG-2 transport stream over ASI output
- MPEG-2 transport stream over Gigabit Ethernet output
- Audio processing and transcoding
- Logo insertion
- PAL and NTSC format support
- User-friendly, Web-based operation

www.thomsongrassvalley.com
Our professional services offerings ensure optimal system performance and maximize uptime. These services include call centers staffed around the clock; system planning, design, and commissioning; professional training courses; and technical maintenance programs and service agreements.

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**PRODUCT DATA SHEET**

**VIBE MOSAIC GENERATORS IN AN IPTV, CABLE, AND SATELLITE ENVIRONMENT**

**SPECIFICATIONS**

**Video**
- PAL and NTSC compatible
- MPEG-2 MP@ML
- H.264 Baseline/Main Profile
- CBR (constant bit rate) or VBR (variable bit rate) inputs
- CBR output

**Audio**
- Multiple audio component management
- Sampling frequency: 32, 44.1, 48 kHz
- MPEG-1 Layer II – 32 kbps to 384 kbps
- AAC-LC, HE-AAC v1.0 and v2.0 – 14 to 512 kbps

**Resolution**
- Up to 720x480 @ 30 fps
- Up to 720x576 @ 25 fps

**ORDERING INFORMATION**

**TNM-3265-ASI**
Mosaic Channel Generator chassis – MPEG-2 or H.264 SD mosaic channel – inputs: 4 ASI interfaces, outputs: 2 mirrored ASI interfaces – 1 RU

**TNM-3265-IP**
Mosaic Channel Generator chassis – creates one MPEG-2 or H.264 SD mosaic channel – inputs / outputs: 2 Ethernet 10/100/1000Base-T – 1 RU

**Options**
- TNM-3265-M4
  Additional Gigabit Ethernet 4-port board for VIBE Mosaic Channel Generator
- TNM-3265-SNMP
  SNMP agent for VIBE Mosaic Channel Generator

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