



allegro
Digital Video Technology

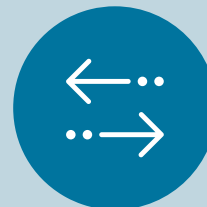
Streamwise

System Streams



System Streams

- DVB
- NorDig
- ATSC3.0
- TV3.0



Video Compliance
Tools

Allegro DVT is a world leading provider of Digital Video Technology solutions including Semiconductor Video Intellectual Property (IPs), Video Compliance Tools and Digital TV Receivers Testing.

Allegro DVT products have been chosen by more than 100 major IC providers, OEMs and broadcasters.

For more information, visit <https://www.allegrodvt.com> or contact info@allegrodvt.com



Unique Selling Points

- Verify system compliance and robustness before mass-deployment to end users. Thanks to Allegro DVT system test streams, IC vendors, OEMs and broadcasters can be confident that their products will comply with today's and tomorrow's broadcasts.
- Allegro DVT system streams are specifically designed to ease system testing. They provide two levels of verification: quick visual check or in-depth and accurate analysis with measuring tools.

Customers

- IC vendors, system vendors (set-top boxes, digital TVs, smartphones, tablets, etc.) and broadcasters.

Description

- Allegro DVT provides audio/video system streams, encapsulated and multiplexed in a variety of formats. They are the perfect tool to validate:
 - Audio/video synchronization
 - Dynamic picture resolution change
 - Aspect ratio
 - Dynamic video codec change
 - Active Format Description
 - DVB subtitles
 - Closed captions
 - TeletextVP9

Test compliance of DVB/NorDig systems

These test suites support all popular audio and video compression formats, including:

Video

H.265/HEVC HD Main/Main10 profiles, H.265/HEVC UHD Main/Main10 profiles

Audio

MPEG-1 Layer I and II, AAC-LC, HE-AAC v1 (aacPlus), HE-AAC v2 (aacPlus v2), MPEG-H 3D, AC-4

Systems

(Application specific) DVB/NorDig
(General purpose) MPEG-2 Transport (13818-1)

Test compliance of ATSC 3.0 systems

These test suites support the following audio and video compression formats:

Video

HEVC Main/Main10 profiles for Legacy SD, Interlaced HD and Progressive resolutions with frame rates of 50Hz and 60Hz

Audio

MPEG-H 3D
AC-4

Systems

ROUTE, MMT



Test compliance of TV3.0 systems

Streamwise-TV3.0 System streams are generated according to TV3.0 standards:

- Video Base Layer (VVC)
- Video Enhancement Layer (LCEVC)
- Audio (MPEG-H)
- Captions & Subtitles

Streamwise-TV3.0 System test suite contains different types of streams:

Package names

- TV3.0 Audio/Video
- Audio/Video synchronization
- Subtitles synchronization
- Services signaling

TV3.0 System are generated to ABNT standards

Part 1	ABNT NBR 25601:2025 TV3.0 - Over-the-air physical layer
Part 2	ABNT NBR 25602:2025 TV3.0 - Transport layer
Part 3	ABNT NBR 25603:2025 TV3.0 - Video coding
Part 4	ABNT NBR 25604:2025 TV3.0 - Audio coding
Part 5	ABNT NBR 25605:2025 TV3.0 - Closed captioning
Part 6	ABNT NBR 25606:2025 TV3.0 - Closed signing
Part 7	ABNT NBR 25607:2025 TV3.0 - Emergency warning system
Part 8	ABNT NBR 25608:2025 TV3.0 - Application coding
Part 9	ABNT NBR 25609:2025 TV3.0 - Receivers