

Test stream suites compliance

- MPEG-2 TS (ISO/IEC 13818-1)
- ATSC (A/53, CEA CEB16)
- DVB (ETSI TS 101 154)

Video Codecs

- H.264/AVC
- MPEG-2

Video Resolution

- High Definition (HD)
- Standard Definition (SD)

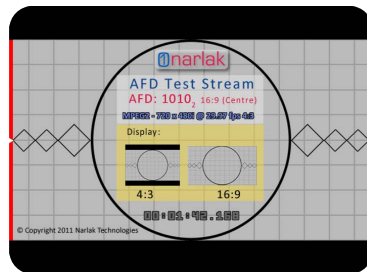
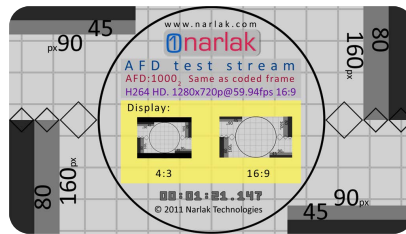
Features

- ✓ 16 AFD values
- ✓ Tester friendly test cards
- ✓ Related info on video
- ✓ Expect 4:3 & 16:9 outputs
- ✓ Video cropping scales
- ✓ AFD code transitions
- ✓ Video format transitions

More information

- 🔗 Webpage
- ✉ Email

Active Format Description (AFD) test stream suites



Narlak's AFD test stream suite screenshots

Narlak's AFD test stream suites

AFD test streams with both MPEG-2 and H.264 video codecs are offered with all 16 AFD codes as defined in ATSC (A/53) and DVB (ETSI TS 101 154) specifications.

Test cards are designed tester friendly, with easily identifiable deformation, expected video presentation on 4:3 and 16:9 displays and video cropping measurements.

MPEG-2 video AFD test stream suite supports AFD codes inserted at all three levels of user data.

Video Codecs Profile and Level

MPEG-2 SD:	MP@ML
MPEG-2 HD:	MP@HL
H.264 SD:	MP@L3.0
H.264 HD:	HP@L4.0

Video frame rates (fps)

23.976, 24, 29.97, 30, 59.94 and 60
25 and 50

Scope

Active Format Description (AFD) defines the area of interest or protected area in a MPEG-2 or H.264 coded video. AFD along with pixel aspect ratio information coded in MPEG-2 or H.264 video can be used to optimally present the video by making better use of 4:3 and 16:9 display areas and avoid postage stamp effect.

AFD information is carried as part of the MPEG-2 video 'User Data' information. In MPEG-2 video syntax User data can be carried at 3 levels at:

- Sequence Header
- Group of Picture (GOP) Header
- Picture Header

Receiver should be capable of decoding AFD information from all the above 3 levels.

In H.264 video syntax AFD information is presented as part of SEI messages.

Compliance and Test Coverage

- MPEG-2 TS (IEC/ISO 13818-1)
- DVB (ETSI TS 101 154)
- ATSC (A/53, CEA CEB 16)
- H.264/AVC video
- MPEG-2 video
- Standard Definition (SD)
- High Definition (HD)

Video resolutions supported

	<u>ATSC – SD</u>	<u>ATSC/DVB – HD</u>	<u>DVB-SD</u>
	720x480	1920x1080	720x576
	704x480	1440x1080	704x576
	640x480	1280x720	544x576
	544x480	960x720	528x576
	528x480		480x576
	352x480		352x576