

TEST DVD-VIDEO

For Checking DVD Players, Recorders, Drives and DVD Pickups TDV-582/ -582D

1. Purpose of use, Features

TDV-582/ -582D are Test Discs designed for confirmation of playback function of DVD Players, Recorders, Drives To confirm stable operation check, Physical Characteristics are more strictly controlled than DVD Specifications. Motion Picture and various kinds of Test Patterns as Video contents are recorded.

Several kinds of Sine waves and Music are recorded in Stream 1 by Dolby Digital and in Stream 2 by Linear PCM as Audio content.

Measurement data are attached to TDV-582D. (it is measured at inner, middle and outer area of the disc by our standard equipment.)

2. Specifications

- Disc type : DVD-VIDEO Disc Single Sided Single Layer
NTSC
- Capacity : 4.7 Gbytes
- Recorded Time : 1hr 19min 43sec
- Video Codec : MPEG-2
- Bit Rate : 4, 8 Mbps
- Region : 1, 2, 3, 4, 5, 6, 8
- Menu : None (Auto start, Continuous playback)
- Subtitle : None
- Physical Characteristics: Complies with DVD Specifications for Read-Only Disc Part1 Physical Specificatio
Version 1.0 However, following parameters are managed as described specificatio

| Parameters | Managed Specifications | DVD Specifications |
|------------------------------|----------------------------|--------------------|
| Substrate Thickness | 0.6±0.02mm | 0.6±0.03 mm |
| Radial Tilt (α) | ±0.15° (ave.) at R23~R57mm | ±0.80° |
| Tangential Tilt (α) | ±0.15° | ±0.30° |
| Radial run-out | ≤70 μm (p-p) | ≤100 μm (p-p) |
| Reflectivity | 55 ~ 70% with PBS | 45 ~ 85% with PBS |
| Jitter | ≤5.7% | ≤8.0% |
| I14/I14H | ≥85% | ≥60% |
| I3/I14 | ≥25% | ≥15% |
| Asymmetry | 0 ~ +0.10 | -0.05 ~ +0.15 |
| PI error | ≤80 | ≤280 |

※ PBS is acronym standing for Polarization Beam Splitter.

- File System : UDF 1.02
- Application : Complies with DVD Specifications for Read-Only Disc Part3 Video Specifications
Version 1.0
- Content Protection
CSS : None

3. Content

| Title No. | Chapter No. | Time | | Video Description | | Audio Stream1 | | Audio Stream2 | | | |
|-----------|-------------|------|-----------------|---------------------|-------------|-----------------------|-----------|-----------------------|----------------|-----------|------|
| | | min | sec | Contents | Rate Mbps | Contents | Rate kbps | Contents | Channel | Rate kbps | |
| 1 | 1 | 5 | 00 | Motion Picture | 8 | Dolby Digital 2ch | | | | | |
| | | | | | | Music | 384 | - | - | - | |
| | | | | | | Dolby Digital 2ch | | LPCM 48kHz 24bit 2ch | | | |
| 2 | 1 | 3 | 00 | Auto Test Matrix | 4 | 1kHz 0dB | 384 | 1kHz 0dB | L&R | 2304 | |
| | 2 | 3 | 00 | 75% SMPTE Color Bar | 4 | 1kHz -60dB | 384 | 1kHz -60dB | L&R | 2304 | |
| | 3 | 3 | 00 | 75% SMPTE Color Bar | 4 | 12kHz ± 1LSB | 384 | 12kHz ± 1LSB | L&R | 2304 | |
| | 4 | 3 | 00 | 10 Step | 4 | Sweep 4 ~ 20kHz -20dB | 384 | Sweep 4 ~ 22kHz -20dB | L&R | 2304 | |
| | 5 | 3 | 00 | Black 0% | 4 | Level sweep 1kHz | 384 | Level sweep 1kHz | L&R | 2304 | |
| | 6 | 3 | 00 | White 100% | 4 | Impulse | 384 | Impulse | L&R | 2304 | |
| | 7 | 3 | 00 | White 50% | 4 | Infinity0 | 384 | Infinity0 | L&R | 2304 | |
| | 8 | 3 | 00 | Multi Burst 100% | 4 | 4Hz 0dB | 384 | 20Hz 0dB | L&R | 2304 | |
| | 9 | 3 | 00 | Multi Burst 60% | 4 | 17Hz 0dB | 384 | 6001Hz 0dB | L&R | 2304 | |
| | 10 | 2 | 53 | Pulse & Bar | 4 | 100Hz 0dB | 384 | 21997Hz 0dB | L&R | 2304 | |
| | | | | | | Dolby Digital 2ch | | | | | |
| 3 | 1 | 5 | 00 | Motion Picture | 8 | Music | 384 | - | - | - | |
| | | | | | | Dolby Digital 2ch | | LPCM 96kHz 24bit 2ch | | | |
| 4 | 1 | 3 | 00 | Multi Pulse | 4 | 127Hz 0dB | 384 | 1kHz 0dB | L&R | 4608 | |
| | 2 | 3 | 00 | Ramp | 4 | 997Hz 0dB | 384 | 1kHz -60dB | L&R | 4608 | |
| | 3 | 3 | 00 | Sweep 1 | 4 | 1999Hz 0dB | 384 | 12kHz ± 1LSB | L&R | 4608 | |
| | 4 | 3 | 00 | Sweep 2 | 4 | 4001Hz 0dB | 384 | Sweep 4 ~ 22kHz -20dB | L&R | 4608 | |
| | 5 | 3 | 00 | Monoscope | 4 | 6001Hz 0dB | 384 | Level sweep 1kHz | L&R | 4608 | |
| | 6 | 3 | 00 | Magenta 75% | 4 | 10007Hz 0dB | 384 | Impulse | L&R | 4608 | |
| | 7 | 3 | 00 | Auto Test Matrix | 4 | 16001Hz 0dB | 384 | Infinity0 | L&R | 4608 | |
| | 8 | 3 | 00 | 75% SMPTE Color Bar | 4 | 19997Hz 0dB | 384 | 20Hz 0dB | L&R | 4608 | |
| | 9 | 3 | 00 | 75% SMPTE Color Bar | 4 | Sweep 4 ~ 20kHz -20dB | 384 | 6001Hz 0dB | L&R | 4608 | |
| | 10 | 0 | 50 | 10 Step | 4 | Infinity0 | 384 | 43997Hz 0dB | L&R | 4608 | |
| | | | | | | Dolby Digital 5.1ch | | LPCM 96kHz 24bit 2ch | | | |
| ※ 5 | 1 | 1 | 00 | Still Picture 1 | - | 1kHz -20dB | L | 384 | Infinity0 -∞dB | L&R | 4608 |
| | | | | | | 1kHz -20dB | R | | | | |
| | | | | | | 1kHz -20dB | LS | | | | |
| | | | | | | 1kHz -20dB | RS | | | | |
| | | | | | | 1kHz -20dB | CT | | | | |
| | | | | | | 20Hz -60dB | LFE | | | | |
| | 2 | 1 | 00 | Still Picture 2 | - | 1kHz -20dB | L | 384 | 1kHz 0dB | L | 4608 |
| | 3 | 1 | 00 | Still Picture 3 | - | 1kHz -20dB | R | 384 | 1kHz 0dB | R | 4608 |
| 4 | 1 | 00 | Still Picture 4 | - | 1kHz -20dB | LS | 384 | 400Hz -10dB | L | 4608 | |
| 5 | 1 | 00 | Still Picture 5 | - | 1kHz -20dB | RS | 384 | 400Hz -10dB | R | 4608 | |
| 6 | 1 | 00 | Still Picture 6 | - | 1kHz -20dB | CT | 384 | 400Hz -10dB | L | 4608 | |
| | | | | | | | | 1kHz -10dB | R | | |
| 7 | 1 | 00 | Still Picture 7 | - | 100Hz -20dB | LFE | 384 | 400Hz -10dB | L | 4608 | |
| | | | | | | | | 1kHz -10dB | R | | |
| | | | | | | Dolby Digital 2ch | | | | | |
| 6 | 1 | 5 | 00 | Motion Picture | 8 | Music | 384 | - | - | - | |

※ When Still Pictures 1 to 7 of Title 5 are played, output contents of Audio Stream are shown as Still Pictures.

note1) The Time Code shown on Title 6 does not include the time of Title 5.

note2) Audio content

Sweep signal and Level sweep signal are repeated three times as 1 cycle for 60 seconds.

The primary signal of Impulse is positive-electrode impulse which consists of 1 sample with full scale level and 69 samples with data "0" as 1 cycle with 70 samples.

Values in this sheet are measured by the equipments ALMEDIO-owned. Appearance and specifications are subject to change without notice.

<Proper handling of the disc>

Do not write on the surface with a pen and others, nor put a sticker on it.

Do not expose the disc to direct sunlight, nor leave it in the place of high temperature and high humidity.

After playing, store the disc in its own case.

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