

**TEAC DV-W5600S-300/-400
DVD MULTI DRIVE**

HARDWARE SPECIFICATION

Rev. B

19 sheets in Total

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1. SCOPE

This is hardware specification of the TEAC DV-W5600S-300/-400 built-in type DVD Multi Drive recorder (hereinafter referred to as drive). As for the software specification, refer to "DV-W5600S Software Specification".

2. OUTLINE

The outline of this drive is given in Table 2-1.

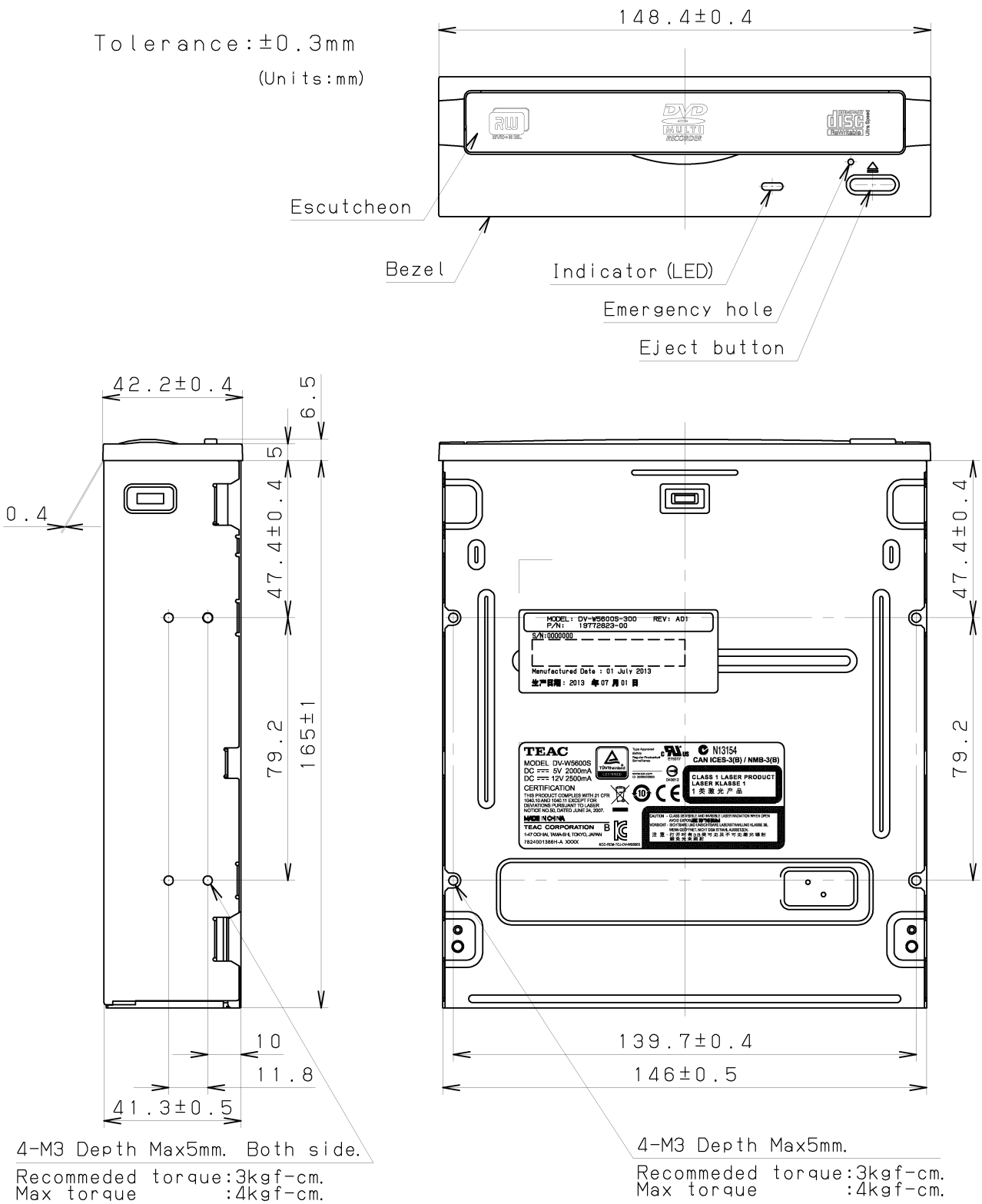
(Table 2-1) Outline of the specification

| | | |
|---|-----|--|
| Model name | | DV-W5600S-300/DV-W5600S-400 |
| TEAC P/N | | 1977282-300/1977282-400 |
| Applicable safety standards | | UL, c-UL, CE, CB, BSMI, TÜV, KC |
| Interface transfer rate | | 1.5Gbps |
| Average access time (Typical) | | 140msec (CD-ROM)/160msec (DVD-ROM), average by TEAC standards |
| Disc speed (CD: 48x CAV/ DVD: 24x CAV) | | 9,550min ⁻¹ / 13,880min ⁻¹ (Approx) |
| Host interface | | Serial ATA |
| Power source | | +5VDC, +12VDC |
| Loading mechanism | | Disc tray |
| Starting time (Typical) | | 18sec (CD-ROM)/18sec (DVD-ROM) |
| Readable discs | CD | CD-DA, CD-ROM, CD-R, CD-RW |
| | DVD | DVD-ROM, DVD-R, DVD-R DL, DVD-RW, DVD+R, DVD+R DL, DVD+RW, DVD-RAM |
| Recordable discs (Refer to item 4.6) | CD | CD-R, CD-RW |
| | DVD | DVD-R, DVD-R DL, DVD-RW, DVD+R, DVD+R DL, DVD+RW, DVD-RAM |
| Applicable format | CD | CD-DA, CD-ROM (Mode1, Mode2), CD-ROM XA Mode2 (Form1, Form2), Photo CD (Single/Multi-session) CD-i, Video-CD, CD-Extra (CD-Plus), CD-Text |
| | DVD | DVD-ROM, DVD-Video, DVD-R (Single/Multi-border), DVD-R DL (Single/Multi-border), DVD-RW (Single/Multi-border) DVD+R (Single/Multi-session), DVD+R DL (Single/Multi-session) DVD+RW (Single/Multi-session), DVD+Video DVD-RAM (Ver.2.0, 2.1, 2.2) |
| Front bezel | | Black (-300)/Ivory (-400) |
| Eject button | | Black (-300)/Ivory (-400) |
| Access indicator | | Green |
| Laser class | | Class 1 laser product |
| Write methods | CD | Disc at once, Session at once, Track at once |
| | DVD | Disc at once, Incremental, Over write, Sequential, Multi-session |
| RoHS directive | | Complies with |

3. CONSTRUCTION

3.1 External Construction

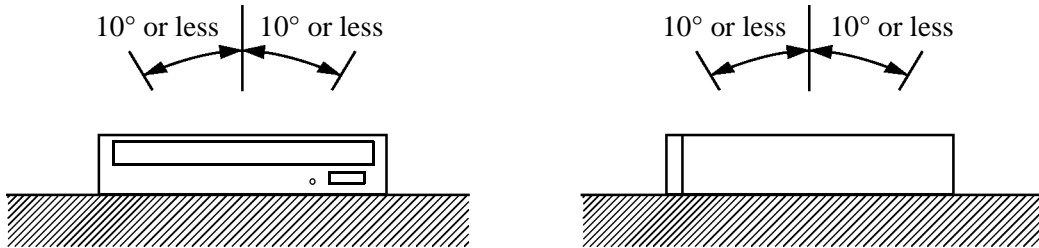
- (1) Dimensions
 - (a) Height : 42.2mm (Including the front bezel)
 - (b) Width : 148.4mm (Including the front bezel)
 - (c) Depth : 171.5mm (Including the eject button)
- (2) Mass : 650g or less
- (3) External view : Refer to Fig. 3.1-1.



(Fig. 3.1-1) External view of the drive

3.2 Installation

- (1) Installation direction : Refer to Fig. 3.2-1.
- (2) Tilt : Refer to Fig. 3.2-1 below.
- (3) Installation method : The fixing holes in the side of the unit are used.
Separate discussions and arrangements are required when the installation holes are not used.



(Fig. 3.2-1) Tilt of the drive

4. DISC SPECIFICATION

4.1 Disc Format

Refer to Table 4.1-1.

(Table 4.1-1) Disc format

| Disc format | Write | Read |
|---|-------|------|
| DVD (DVD-5; Single layer, Single side 4.7GB) | N/A | Y |
| DVD (DVD-9; Dual layer, Single side 8.54GB) | N/A | Y |
| DVD (DVD-10; Single layer, Dual side 9.4GB) | N/A | Y |
| DVD (DVD-18; Dual layer, Dual side 17.09GB) | N/A | Y |
| DVD-R Ver.1.0 (for authoring 3.95GB) | N | Y |
| DVD-R Ver.2.0 (for authoring 4.7GB) | N | Y |
| DVD-R Ver.2.0 and 2.1 (for general 4.7GB) | Y | Y |
| DVD-R DL (Dual Layer) Ver.3.0 (8.54GB) | Y(*1) | Y |
| DVD-RW Ver.1.0, 1.1 and 1.2 (4.7GB) | Y | Y |
| DVD+R Ver.1.3 | Y | Y |
| DVD+R DL (Double Layer) Ver.1.0 and 1.1(8.54GB) | Y(*1) | Y |
| DVD+RW Ver.1.3 | Y | Y |
| DVD+RW high speed Ver.1.0 | N | Y |
| DVD-RAM Ver.1.0 | N | N |
| DVD-RAM Ver.2.0, 2.1, 2.2 (Class0) | Y | Y |
| DVD-RAM Ver.2.2 [RAM2 (Class1)] | N | Y |
| CD-ROM Mode1 | N/A | Y |
| CD-ROM XA Mode2 (Form1, Form2) | N/A | Y |
| Photo CD (single and multi session) | Y(*1) | Y |
| Video CD | Y(*1) | Y |
| CD-DA | Y(*1) | Y |
| CD-Extra | Y(*1) | Y |
| CD-Text | Y(*1) | Y |
| CD-R | Y | Y |
| CD-RW (Supports AM2) | Y | Y |
| HS CD-RW (Supports AM2) | Y | Y |
| US CD-RW (Supports AM2) | Y | Y |
| US+ CD-RW (Supports AM2) | N | Y |

Notes : (*1) Recording Software's support is required.

4.2 Read/Rotational Speed

Refer to Table 4.2-1 for the read/rotational speed.

(Table 4.2-1) Read/Rotational speed

| Disc format | Transfer speed (at Maximum) |
|--|--------------------------------|
| DVD-ROM (Single layer) | 16x CAV |
| DVD-ROM (Dual layer) | 12x CAV |
| DVD-R, DVD+R | 16x CAV |
| DVD-R DL (Dual Layer)/DVD+R DL (Double Layer) | 12x CAV |
| DVD-RW, DVD+RW | 13x CAV |
| DVD-Video (Single layer) | 8x CAV |
| DVD-Video (Dual layer) | 8x CAV |
| DVD-RAM | 5x ZCLV |
| CD-ROM | 48x CAV |
| Video CD | 20x CAV |
| CD-DA, CD-TEXT, Mixed-CD, CD-Extra (Play audio) | 20x CAV |
| CD-DA, CD-TEXT, Mixed-CD, CD-Extra (Data extraction) | 40x PCAV |
| CD-R | 48x CAV |
| CD-RW | 40x PCAV |

Note :

The speeds for Recordable/Rewritable media listed here are the one when it is finalized.

Readspeed becomes 2.5x CAV at DVD reading, 4x CLV at CD reading finally in case read error occur at high speed reading.

4.3 Data Capacity

- 650MB/700MB : CD-ROM Mode 1
CD-ROM XA Mode 2 Form 1
- 738MB/795MB : CD-ROM XA Mode 2 Form 2
- 74min/80min : CD-DA
- 4.7GB/side : DVD-ROM, DVD-Video, DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM
- 8.5GB/side : DVD-ROM, DVD-Video, DVD-R, DVD+R

4.4 Write Methods

- CD : Disc at once, Track at once, Session at once
- DVD : Disc at once, Incremental, Over write, Sequential, and Multi-session

4.5 Readable Disc

CD-DA, CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-R DL, DVD-RW, DVD+R, DVD+R DL, DVD+RW, DVD-RAM

4.6 Write Speed

With the recommended discs, the following speeds of recording are available:

(Table 4.6-1) Write speed

| Media type | Transfer speed | Media type | Transfer speed | Media type | Transfer speed |
|------------|----------------|------------|----------------|--------------|----------------|
| DVD-R | 2x CLV | DVD+R | 2.4x CLV | CD-R | 4x CLV |
| | 4x CLV | | 4x CLV | | 8x CLV |
| | 6x Zone CLV | | 6x Zone CLV | | 16x CLV |
| | 8x Zone CLV | | 8x Zone CLV | | 24x Zone CLV |
| | 12x Zone CLV | | 12x Zone CLV | | 24x PAV |
| | 16x CAV | | 16x CAV | | 32x Zone CLV |
| | 18x CAV | | 18x CAV | | 32x PAV |
| | 20x CAV | | 20x CAV | | 40x PAV |
| | 24x CAV | | 24x CAV | | 48x CAV |
| DVD-R DL | 2x CLV | DVD+R DL | 2.4x CLV | DVD-RAM | 2x Zone CLV |
| | 4x CLV | | 4x CLV | | 3x Zone CLV |
| | 6x Zone CLV | | 6x Zone CLV | | 5x Zone CLV |
| | 8x Zone CLV | | 8x Zone CLV | CD-RW | 4x CLV |
| DVD-RW | 1x CLV | DVD+RW | 2.4x CLV | | 10x CLV |
| | 2x CLV | | 3.3x CLV | | 16x CLV |
| | 4x CLV | | 4x CLV | 24x Zone CLV | |

5. PERFORMANCE

5.1 Operating Performance

- (1) Average random access time (typical)
: 140msec average (CD-ROM, 48x), 160msec average (DVD-ROM, 16x)
- (2) Disc speed : Refer to 4.2.
- (3) Data transfer rate
- (a) Read sustained : 2,580 to 7,150kB/sec (CD-ROM Model)
8,910 to 21,600kB/sec (DVD-ROM)
- (b) Programmed I/O : 16.7MB/sec max (Mode 0 to 4)
- (c) Multi-word DMA : 16.7MB/sec max (Mode 0 to 2)
- (d) Ultra DMA : 100MB/sec max (Mode 0 to 5)
- (4) Starting time
The period between disc spin up and pause on the first address after TOC reading
- CD-ROM : 18sec typical (excluding the multi-session CD)
- DVD-ROM : 18sec typical
- (5) Data buffer capacity : 1MB

5.2 Specifications of the Mechanism

- (1) Loading mechanism
- (a) Insertion
- Power loading using the eject button
 - Power loading by pushing the disc tray
 - Power loading using the interface command
- (b) Eject
- Power eject using the eject button
 - Power eject using the interface command
 - Manual eject using the emergency holes. (in an emergency and power off)
- (2) How to insert and take out the disc
- When inserting the disc, place it towards the front edge or back edge of the tray to maneuver it into position.
 - When taking the disc out, pull it upward without applying excessive force on the disc.
 - When using an 8cm-CD disc in horizontal position, put it on the specified center of the tray.
Never use it in the vertical position.

5.3 Acoustic

(Table 5.3-1) Acoustic

| Item | Spec. [dB (A)] | Remarks |
|-----------------------|----------------|--|
| Sound Power (ISO7779) | Less than 45 | Without loading operation, distance 0.5m. During Seek/read/Active idle. |

6. ENVIRONMENTAL CONDITIONS

The environmental conditions as specified here do not include the environmental conditions of the disc. The environmental conditions of the disc should follow the specifications of the applicable disc.

(1) Temperature and Humidity

(Table 6-1) Temperature and humidity

| Drive condition | Test items | Min. | Typ. | Max. | Units | Remarks |
|--|---------------|------|------|------|-------|--|
| Operating | Temperature | +5 | – | +40 | °C | Within 10°C/hour deviation Within 10%/hour deviation No condensation |
| | Humidity | 5 | – | 80 | %RH | |
| | Wet Bulb Temp | – | – | 29 | °C | |
| Not operating | Temperature | -20 | – | +60 | °C | Within 10°C/hour deviation Within 10%/hour deviation No condensation |
| | Humidity | 5 | – | 90 | %RH | |
| | Wet Bulb Temp | – | – | 29 | °C | |
| Transportation (packaging condition) | Temperature | -40 | – | +60 | °C | Within 20°C/hour deviation within 20%/hour deviation No condensation |
| | Humidity | 5 | – | 90 | %RH | |
| | Wet Bulb Temp | – | – | 29 | °C | |

(2) Vibration

(Table 6-2) Vibration

| Drive condition | Test items | Test condition | Criteria |
|---|--------------|--|--|
| Operating <Sweep vibration> | Acceleration | 0.25 G peak | No error occurs during the operation (Excepting recording mode) |
| | Frequency | 10 ~ 300Hz | |
| | Sweeping | 1 octave/minute | |
| | Test Cycle | 1 cycle/axis | |
| Not operating <Random> | Acceleration | 1.5 G rms | No damage is found on the drive after this test |
| | Frequency | 10 ~ 500 Hz | |
| | Test mode | Random | |
| | Testing Time | 30 minutes/axis | |
| Transportation (packaging condition) | X-direction | 10-50Hz , 0.7G, 15 minutes | No damage is found on the drive after this test |
| | Y-direction | 10-50Hz , 0.7G, 15 minutes | |
| | Z-direction | 10-30Hz , 1.1G, 75 minutes 30-50Hz , 0.7G, 75 minutes | |

(3) Shock

(Table 6-3) Shock

| Drive condition | Test items | Test condition | Criteria |
|---|-----------------|---------------------------------------|--|
| Operating | Acceleration | 2G peak | No error occurs during the operation. (Except writing mode and CD-DA playback mode) |
| | Pulse | 11 msec (half-sine) | |
| | Number of pulse | 16 times x10sec interval 6 directions | |
| Not operating <Half-sine> | Acceleration | 140 G | No damage is found on the drive after this test |
| | Pulse | 2 msec | |
| | Number of pulse | 1 pulse (in 6 directions) | |
| Transportation (packaging condition) | Height | 60 cm | No damage is found on the drive after this test |
| | Direction | 1 corner, 3 edges, 6 faces | |

(4) Dust : Office environment

(5) Cooling : Natural air cooling

7. RELIABILITY

- (1) Mean time between failures (MTBF) : 60,000 POH or more (the frequency of use should be 10% at normal temperature and humidity)
- (2) Mean time to repair (MTTR) : 30 minutes
- (3) Loading/ejecting life : 30,000 times
- (4) Self-diagnosis
 - (a) When power is switched ON : Various controllers, ROM, RAM, buffer, ECC circuit, etc.
 - (b) When disc is inserted : Servo circuit, signal processors, etc.

8. SAFETY STANDARDS

The drive complies with the following safety standards:

- (1) UL standard
- (2) c-UL standard
- (3) CE standard
- (4) CB standard
- (5) BSMI standard
- (6) TÜV standard
- (7) KC standard

9. INDICATORS AND STRAP FUNCTIONS

9.1 Indicators

9.1.1 Position

The indicators are on the front bezel and are located on one places at the lower Right side of the disc insertion opening.

9.1.2 Indicators

The drive status is indicated with (Green LED).

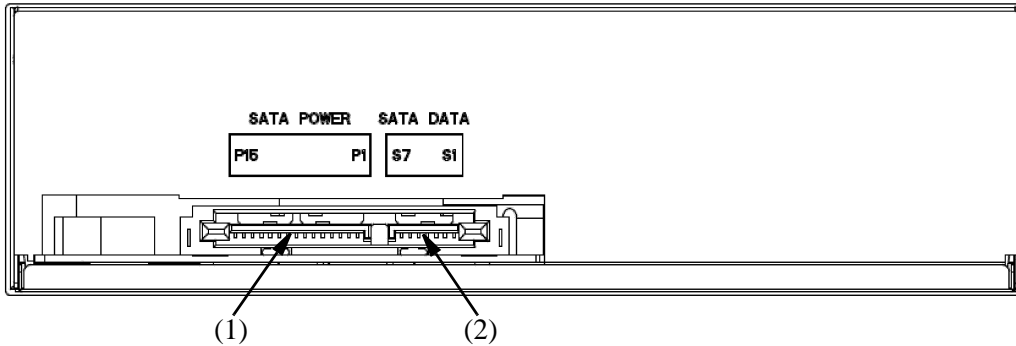
(Table 9.1.2-1) Indicators

| Status | Indicator |
|-----------------|-----------|
| During reading | Lit |
| During writing | Lit |
| Tray open/close | Lit |

10. FRAME GROUND

The frame of the drive is electrically connected to 0VDC.

11. INTERFACE CONNECTOR



(Fig. 11-1) Rear panel

11.1 DC input (1)

(Table 11.1-1) DC input (1)

| Pin | Name | Function |
|-----|---------|---|
| 1 | V3.3 | 3.3V Power (Not used) |
| 2 | V3.3 | 3.3V Power (Not used) |
| 3 | V3.3 | 3.3V Power (Not used) |
| 4 | GND | |
| 5 | GND | |
| 6 | GND | |
| 7 | V5 | 5V Power |
| 8 | V5 | 5V Power |
| 9 | V5 | 5V Power |
| 10 | GND | |
| 11 | DAS/DSS | Device Activity Signal / Disable Staggered Spin-up (Not used) |
| 12 | GND | |
| 13 | V12 | 12V Power |
| 14 | V12 | 12V Power |
| 15 | V12 | 12V Power |

11.2 SATA Interface (2)

To connect the SATA port in the computer, use 7pin cable.

Total length of the cable must be less than 1m according to the SATA specifications.

(Table 11.2-1) SATA interface (2)

| Pin | Name | Function |
|-----|------|----------------------------|
| 1 | GND | |
| 2 | A+ | Differential Signal Pair A |
| 3 | A- | |
| 4 | GND | |
| 5 | B- | Differential Signal Pair B |
| 6 | B+ | |
| 7 | GND | |

12. POWER INTERFACE

12.1 Input Voltage

The following specifications apply to the power interface connector of the drive.

(Table 12.1-1) Input voltage

| | | |
|-------------------------|-----------|-----------|
| Normal DC Input Voltage | +5V | +12V |
| Voltage Allowance | +/- 5% | +/- 5% |
| Ripple Voltage | 100 mVp-p | 200 mVp-p |

12.2 Current and Power Consumption

(Table 12.2-1) Current and power consumption

| Conditions | | +5V Current [mA] | +12 Current [mA] | Power Consumption [W] |
|----------------------------|-----------------------------|---------------------|---------------------|-----------------------------|
| Stand-by (average) | Laser OFF, Motor OFF | 200 | 10 | 1.12 |
| Idle (average) | Laser ON, Motor ON | 800 | 250 | 7.0 |
| Write (average) | DVD DVD-R 24x CAV Write | 1,200 | 1,100 | 19.2 |
| | CD CD-R 48x CAV Write | 1,200 | 1,100 | 19.2 |
| Read (average) | DVD DVD-ROM (S) 16x Read | 800 | 1,000 | 16.0 |
| | CD CD-ROM 48x Read | 800 | 1,000 | 16.0 |
| Random Access (average) | DVD-ROM 100% | 1,200 | 1,000 | 18.0 |
| Maximum (Peak) | Start up | 1,800 | 2,000 | 33.0 |

Note: The current is measured with current probe and applied 1KHz LPF to reject high frequency spikes

13. SERIAL ATA INTERFACE

13.1 Outline

- (1) Applicable standard
- | | |
|---------------------------------------|-------------------------------------|
| Serial ATA International Organization | : Serial ATA Revision 3.1 |
| ANSI standard | : T13/1532D (ATA-7) |
| SFFC | : SFF-8020i Rev. 2.6 and SFF-8090v6 |

13.2 Electrical Characteristics

Refer to Serial ATA Revision 3.1.

13.2.1 Serial ATA options

- | | |
|-----------------------------------|-------|
| (1) Asynchronous Signal Recovery | : yes |
| (2) Software Setting Preservation | : yes |
| (3) Interface Power Management | |
| device initiated | : no |
| host initiated | : no |
| (4) Spread Spectrum Clocking | : no |

13.3 COMMAND SET

13.3.1 ATA COMMAND

Refer to Table 13.3.1-1.

(Table 13.3.1-1) ATA COMMAND

| CODE | COMMAND |
|------|--------------------------|
| 08 | ATAPI SOFT RESET |
| E5 | CHECK POWER MODE |
| 90 | EXECUTE DRIVE DIAGNOSTIC |
| E3 | IDLE |
| E1 | IDLE IMMEDIATE |
| 00 | NOP |
| A0 | ATAPI PKT. |
| A1 | ATAPI IDENTIFY DEVICE |
| EF | SET FEATURE |
| E6 | SLEEP |
| E2 | STANDBY |
| E0 | STANDBY IMMEDIATE |
| A2 | SERVICE |

13.3.2 ATAPI COMMAND

Refer to Table 13.3.2-1.

(Table 13.3.2-1) List of the ATAPI commands (Sheet 1 of 2)

| CODE | COMMAND |
|------|----------------------------------|
| A1 | BLANK |
| 5B | CLOSE TRACK/RZONE/SESSION/BORDER |
| 04 | FORMAT UNIT |
| 4A | GET EVENT STATUS NOTIFICATION |
| 12 | INQUIRY |
| BD | MECHANISM STATUS |
| 55 | MODE SELECT |
| 5A | MODE SENSE |
| 1E | PREVENT/ALLOW MEDIUM REMOVAL |
| 28 | READ (10) |
| A8 | READ (12) |
| 5C | READ BUFFER CAPACITY |
| 25 | READ CD/DVD CAPACITY |
| BE | READ CD |
| B9 | READ CD MSF |
| 51 | READ DISC INFORMATION |
| 44 | READ HEADER |
| 42 | READ SUB-CHANNEL |
| 43 | READ TOC/PMA/ATIP |
| 52 | READ TRACK/RZONE INFORMATION |
| 03 | REQUEST SENSE |
| 53 | RESERVE TRACK/RZONE |
| 01 | REZERO UNIT |
| 2B | SEEK |
| 5D | SEND CUE SHEET |
| 54 | SEND OPC INFORMATION |
| BB | SET CD-ROM SPEED |
| 1B | START/STOP UNIT |
| 35 | SYNCHRONIZE CACHE |
| 00 | TEST UNIT READY |
| 2A | WRITE (10) |
| AA | WRITE (12) |
| AD | READ DVD STRUCTURE |
| 23 | READ FORMAT CAPACITIES |
| A4 | REPORT KEY |
| 43 | SEND KEY |
| A7 | SET READ AHEAD |

(Table 13.3.2-1) List of the ATAPI commands (Sheet 2 of 2)

| CODE | COMMAND |
|------|--------------------|
| 46 | GET CONFIGURATION |
| AC | GET PERFORMANCE |
| A2 | SEND EVENT |
| BF | SEND DVD STRUCTURE |
| B6 | SET STREAMING |

14. OTHERS

14.1 Safety of Laser Products

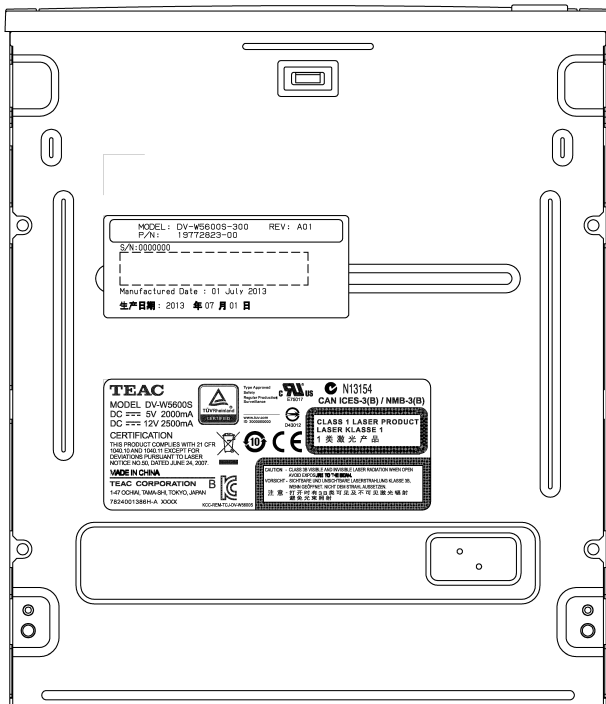
When selling this unit or a system with this unit to an end user, print the following text in the instruction manual or enclose the separate sheet on which the following text is printed with the instruction manual.

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the radiation Control for Health and Safety Act of 1968", and is classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required in this regulation is shown below.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

| Optical pickup | |
|----------------|---|
| Type | : LO-DWH02 |
| Manufacturer | : Lite-space Technology Co., Ltd. |
| Laser output | : Less than 131.9mW (CD) and 147.8mW (DVD) on the objective lens |
| Wavelength | : 785nm (CD) typical 661nm (DVD) typical |



MODEL: DV-W5600S-300 REV: A01
P/N: 19772823-00

Model: DV-W5600S-A00
S/N: 00000000
Manufactured Date: 01 July 2013
生产日期: 2013 年 07 月 01 日

| | | |
|--|---|---|
| <p>TEAC MODEL DV-W5600S DC === 5V 2000mA DC === 12V 2500mA</p> <p>CERTIFICATION THIS PRODUCT COMPLIES WITH 21 CFR 1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE: NC-30, DATED JUNE 24, 2007.</p> <p>MADE IN CHINA TEAC CORPORATION 1-47 OCHIAI, TAMA-SHI, TOKYO, JAPAN 7824001386H-A XXXX</p> | <p>CLASS 1 LASER PRODUCT LASER KLASSE 1 1类激光产品</p> <p>CERTIFICATION THIS PRODUCT COMPLIES WITH 21 CFR 1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE: NC-30, DATED JUNE 24, 2007.</p> <p>MADE IN CHINA TEAC CORPORATION 1-47 OCHIAI, TAMA-SHI, TOKYO, JAPAN 7824001386H-A XXXX</p> | <p>CAUTION - CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO THE BEAM. VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 3B, WENN GEÖFFNET. NICHT DEM STRAHL AUSSETZEN. 注意 - 打开时有3B类可见及不可见激光辐射 避免光束照射</p> |
|--|---|---|

(Fig. 14.1-1)