

**TEAC<sup>®</sup>**

**SATA 12.7mm Height Slot**

**BD/DVD/CD WRITER**

**BD-W26SS-BM3**  
**PRODUCT SPECIFICATION**

**Revision 1.00**

**December 1st, 2011**

**TEAC CORPORATION**

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**1. Blank Page**

## 2. Features

<b>Maximum Write Speed</b>	<b>6X CAV at BD-R/-R DL 4X Z-CLV at BD-R TL/-R QL 2X CLV at BD-RE/-RE DL/-RE TL 4X Z-CLV at BD-R L to H 8X CAV at DVD-R/+R 8X Z-CLV at DVD+RW 6X P-CAV at DVD-R DL/+R DL 6X Z-CLV at DVD-RW 5X Z-CLV at DVD-RAM 24X CAV at CD-R 24X Z-CLV at CD-RW</b>
<b>Maximum Read Speed</b>	<b>6X CAV at BD-ROM/-R/-R DL 5X CAV at BD-R L to H/-RE/-RE DL 4X P-CAV at BD-R TL/-R QL 2X CLV at -RE TL 8X CAV at DVD-ROM, DVD-R/+R/-RW/+RW, DVD-R DL/+R DL 5X Z-CLV at DVD-RAM 24X CAV at CD-ROM/-R/-RW</b>
<b>Buffer Memory Size</b>	<b>4Mbyte</b>
<b>ATA Interface</b>	<b>Serial ATA Revision 2.6</b>
<b>Data Transfer Mode</b>	<b>Gen1i 1.5Gbits / sec</b>
<b>12.7mm-Height Built In Type</b>	
<b>Slot Loading Mechanism</b>	
<b>Supports “Buffer Under Run” Protection (BD, DVD and CD)</b>	
<b>Supports “Zero Power ODD”</b>	
<b>Supports “Bus Encryption” (BD-ROM only)</b>	
<b>Supports “AVC REC”</b>	
<b>This product will obtain the certification of “Microsoft® Windows® Logo Program”(WHQL).</b>	
<b>This product complies to RoHS Directive and WEEE Directive.</b>	

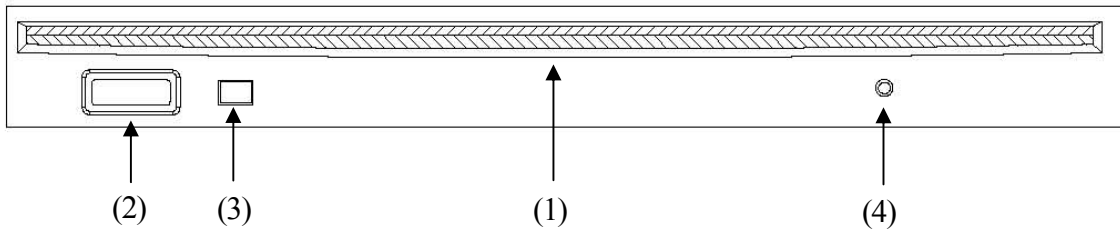
**Disc Format supported**

BD-ROM Ver1.3 (with copy protection) and BD9  
BD-R Ver1.1 & 1.2 & 1.3 & 2.0 (Read / Write)  
BD-RE Ver2.1 & 3.0 (Read / Write)  
BD-R LtH Ver1.2 & 1.3 (Read / Write)  
DVD-ROM (DVD-5, 9, 10, 18)  
DVD-R Ver.1.0 & 2.0 for Authoring (Read)  
DVD-R Ver.2.0 & 2.1 for General (Read / Write)  
DVD-R DL Ver3.0 (Read / Write)

DVD-RW Ver.1.0 & 1.1 & 1.2 (Read / Write)  
DVD+R Ver.1.0 & 1.1 & 1.2 & 1.3 (Read / Write)  
DVD+R DL Ver1.0 & 1.1(Read / Write)  
DVD+RW Ver. 1.0 & 1.1 & 1.2 & 1.3  
DVD+RW high speed Ver.1.0 (Read / Write)  
DVD-RAM Ver.2.0 & 2.1 & 2.2 (Read / Write: RAM2  
Read only)  
CD-ROM Mode1  
CD-ROM XA Mode2 (Form1 and Form2)  
KODAK Photo CD Single and Multi-session (Read /  
Write) Video CD (Read / Write)  
CD-DA (Read / Write)  
CD Extra (CD PLUS)  
CD text data (Read / Write)  
CD-R discs (Read / Write)  
CD-RW discs (Read / Write)

### 3. Name of Parts / Function / Setting

#### 3.1. Front



**Figure 3-A: Front View**

#### **Disc Loading Slot (1)**

Place a BD, DVD or CD disc into the slot with the label facing up, and push the front edge of the disc gently to load the disc.

#### **Eject Button (2)**

To unload the disc, press the button.

#### **BUSY Indicator (3)**

It is lit when the data on the disc is accessed.

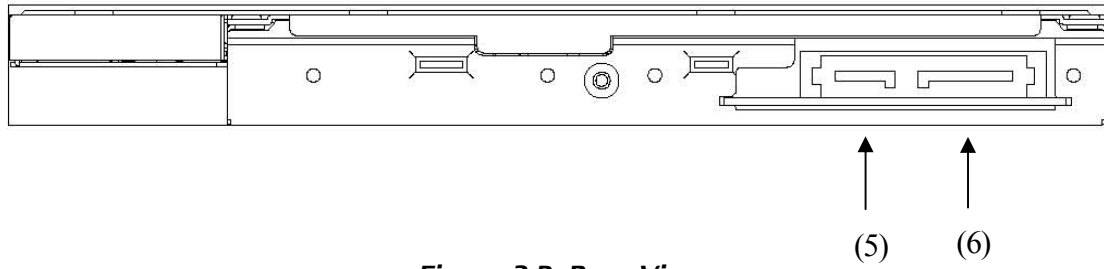
#### **Forced Eject Hole (4)**

Insert a stiff rod into the hole and push to eject a 12cm disc when it doesn't unload by pushing the Eject button. In the normal operation, the eject button should be used to unload a disc. Make sure the power of the drive is turned off and wait more than one minutes till the disc rotation is stopped when access the eject hole

Notes:

The figure 3-A as above is for TEAC standard bezel.

**3.2. Rear**



*Figure 3-B: Rear View*

**DC Input (5)**

Pin	Name	Function
1	DP	Device Present
2	+5V	5 V Power
3	+5V	5 V Power
4	MD	Manufacturing Diagnostic
5	GND	
6	GND	

**SATA Interface (6)**

Pin	Name	Function
1	GND	
2	A+	Differential Signal Pair from host controller
3	A-	
4	GND	
5	B-	Differential Signal Pair to host controller
6	B+	
7	GND	

## 4. Power Supply

### 4.1. Input Voltage

Normal DC Input Voltage	+5V
Voltage Allowance	+/- 5 % (Operating) - 8% (Start-up)
Ripple Voltage	Less than 200 mVp-p

### 4.2. Current and Power Consumption

Conditions		+5V Current [mA]	Power Consumption [W]
Sleep (Average)	Sleep Command	75	0.375
Stand-by (Average)	Laser OFF, Motor OFF	75	0.375
Idle (Average)	Laser ON, Motor ON	550	2.75
Write (Average)	BD BD-R 6x Write	946	4.73
	DVD DVD-R/R 8X Write	815	4.08
	CD CD-R/RW 24X Write	870	4.35
Read (Average)	BD BD-ROM 6X Read	916	4.58
	DVD DVD-ROM 8X Read	787	3.94
	CD CD-ROM 24X Read	768	3.84
Random Access	BD-ROM 100%	1210	6.05
Maximum (Peak)	BD-ROM Full-stroke Seek	1400	7.00

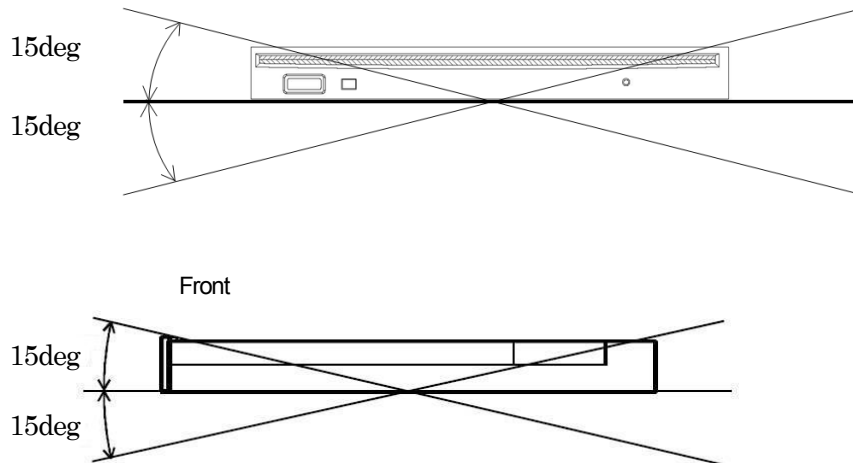
Note: The current is measured with current probe and applied 1 KHz LPF to reject high frequency spikes.



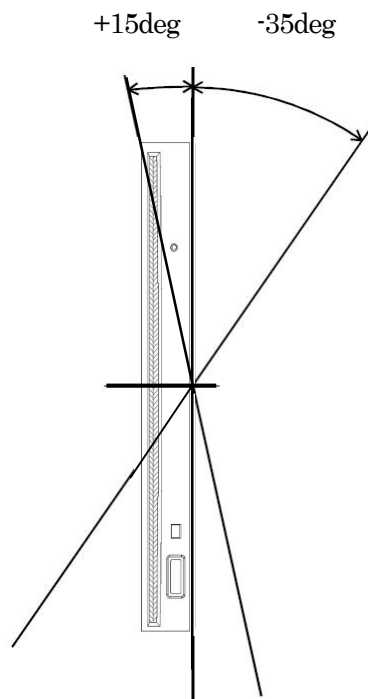
## 5. Installation

### 5.1. Mounting Direction

This drive is Horizontal and Vertical Use.  
Allowance is referring to the following figures.



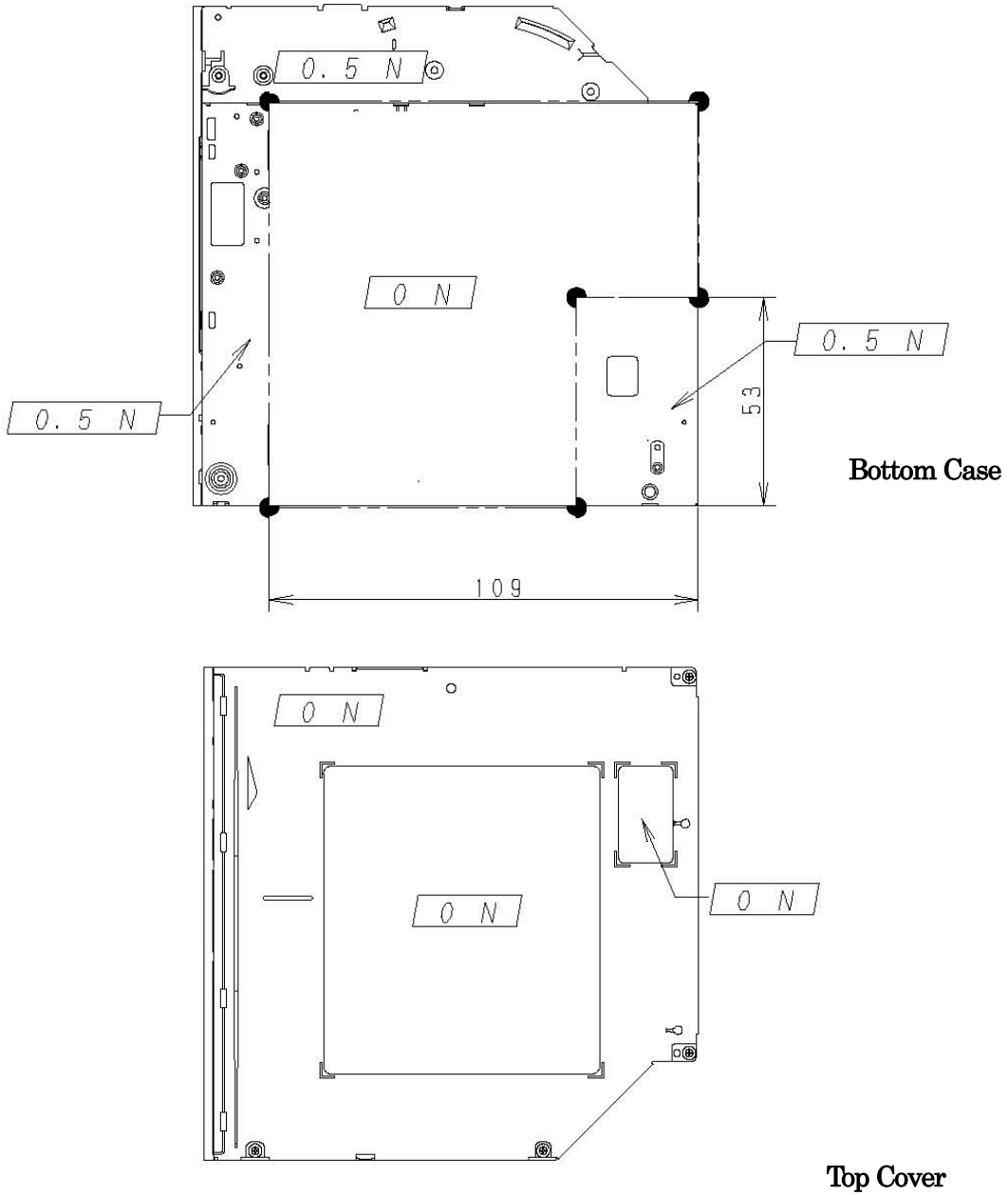
**Figure 5-A: Mounting Direction, Horizontal**



**Figure 5-B: Mounting Direction, Vertical**

5.2. Installation Conditions

Range of force for the top cover and the bottom case

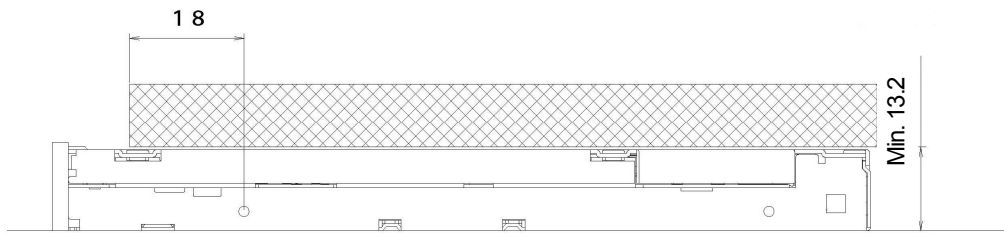


**0 N** AREA: Do not exert ANY force on this area.

**0.5 N** AREA: Do not exert force over 0.5N force on this area.

**Figure 5-C: Top Cover and Bottom Case Force Map**

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**Drive Unit Clearance**

The Grid area in the figure above should be 13.2mm or more away from Z plane.  
If this distance cannot be secured, problems may occur with the loading mechanism.

Overall unit height of the diagonal area in the diagram above is  $12.7 \pm 0.2$  (excluding unit bottom shield sheet). Other areas (excluding product label and top metal sheet curling) are  $12.7 + 0.5 / - 0.2$ .  
If force is exerted in areas outside of the range of force (see Range of force), problems may occur with the loading mechanism.  
It is recommended to secure  $>0.5$  clearance (13.2 from the Z plane) between the unit and chassis.

***Figure 5-D: Drive Unit Clearance***

## 6. Environmental Conditions

### 6.1. Temperature and Humidity

Unit Condition	Test Items	MIN.	TYP.	MAX	Units	Note
Operating	Temperature	+5	-	+50	°C	within 10 °C/hour deviation within 10 %/hour deviation No condensation  Storage period 96H. Satisfy the specification after 4H left in room temp.
	Humidity	5	-	85	%RH	
	Wet Bulb Temp.	-	-	29	°C	
Non-Operating	Temperature	-20	-	+60	°C	
	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 Storage period: 96H. Satisfy the specification after 4H left in room temp.
	Humidity	5	-	90	%RH	
	Wet Bulb Temp.	-	-	29	°C	

### 6.2. Vibration

Unit Condition	Test Items	Test Condition	Criteria
Operating	Acceleration	2.45 m/s <sup>2</sup> {0.25G} 0-P	No error is found during the operation after this test.
	Frequency	10 ~500 Hz	
	Sweeping Time	1/4 octave/minute	
	Testing Time	1 sweep/one direction (3 directions in total)	
Non-Operating	Acceleration	19.6 m/s <sup>2</sup> {2.0G} 0-P	No damage is found on the drive after this test
	Frequency	Random 10 ~ 900 Hz	
	Sweeping Time	1 octave/minute	
	Testing Time	1 hour/one direction (3 directions in total)	
Transportation (Packaging Condition)	X-direction	5-50Hz , 6.86 m/s <sup>2</sup> {0.7G} , 15 minutes	The drive works normally after each cycle test.
	Y-direction	5-50Hz , 6.86 m/s <sup>2</sup> {0.7G}, 15 minutes	
	Z-direction	5-30Hz , 10.78 m/s <sup>2</sup> {1.1G}, 75 minutes 30-50Hz , 6.86 m/s <sup>2</sup> {0.7G}, 75 minutes	

## 6.3. Shock

Drive Condition	Test Item	Test Condition	Criteria
Operating	Acceleration	19.6 m/s <sup>2</sup> {2 G} 0-P during read and play 14.7 m/s <sup>2</sup> {1.5G} 0-P during write operation 9.8 m/s <sup>2</sup> {1G} 0-P during write operation at BD	No error is found during the operation after this test.
	Pulse	11 msec (half-sine)	
	Number of Pulse	20 pulse x 6 sec interval x 3 directions	
Non-operating <Half-sine>	Acceleration	2940 m/s <sup>2</sup> {300 G}	No damage is found on the drive after this test
	Pulse	3 msec (half-sine)	
	Number of Pulse	1 pulse (in 6 directions)	
Non-operating <Square wave>	Acceleration	980 m/s <sup>2</sup> {100 G}	No damage is found on the drive after this test
	Pulse	180 inch/s	
	Number of Pulse	1 pulse (in 6 directions)	
Transportation (Packaging Condition)	Height	80 cm	The test is done with packaging condition. The drive works normally after this test.
	Direction	1 corner, 3 edges, 6 faces	

## 6.4. ESD (Electro Static Discharge Susceptibility)

Drive Condition	Test Item	Test Condition	Criteria
Operating	Voltage	+/- 4 kV (contact) +/- 10 kV (in air)	Standard: IEC61000-4-2 No drive error.
	Charge Capacitor	150 pF	
	Discharge Resistor	330 ohm	
Non-Operating	Voltage	+/-8 kV (contact) +/- 15kV (in air)	Standard: IEC61000-4-2 No hardware damage.
	Charge Capacitor	150 pF	
	Discharge Resistor	330 ohm	

## 7. Specifications

### 7.1. Disc Format

DISC Format	Write	Read
BD-ROM Ver.1.3(Single Layer, Dual Layer)	N/A	Y
BD-ROM (BD9)	N/A	Y
BD-R Ver.1.1, 1.2, 1.3 (Single Layer, Dual Layer)	Y	Y
BD-R Ver.2.0 (Triple Layer, Quadruple Layer)	Y	Y
BD-R LTH Ver.1.2, 1.3	Y	Y
BD-RE Ver.2.1(Single Layer, Dual Layer)	Y	Y
BD-RE Ver.3.0(Triple Layer)	Y	Y
DVD (DVD-5; Single layer, Single side 4.7Gbytes)	N/A	Y
DVD (DVD-9; Dual layer, Single side 8.54Gbytes)	N/A	Y
DVD (DVD-10; Single layer, Dual side 9.4Gbytes)	N/A	Y
DVD (DVD-18; Dual layer, Dual side 17.09Gbytes)	N/A	Y
DVD-R Ver.1.0 (for authoring 3.95Gbytes)	N	Y
DVD-R Ver.2.0 (for authoring 4.7Gbytes)	N	Y
DVD-R Ver.2.0 and 2.1(for general 4.7Gbytes)	Y	Y
DVD-R DL (Dual Layer) Ver.3.0 (8.54Gbytes)	Y(*1)	Y
DVD-RW Ver.1.0, 1.1, and 1.2 (4.7Gbytes)	Y	Y
DVD+R Ver.1.3	Y	Y
DVD+R DL (Double Layer) Ver.1.0 and 1.1(8.54Gbytes)	Y(*1)	Y
DVD+RW Ver.1.3	Y	Y
DVD+RW high speed Ver.1.0	Y	Y
DVD-RAM Ver.1.0	N	N
DVD-RAM Ver.2.0, 2.1 and 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 multiple session)	Y(*1)	Y
Video CD	Y(*1)	Y
CD-DA	Y(*1)	Y
CD-Extra	Y(*1)	Y
Mixed-CD	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)	Y	Y

Note:

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

## 7.2. Read Speed

DISC Format	Transfer Speed (at Maximum)
BD-ROM (Single layer, Dual layer)	6X CAV
BD-R (Single layer, Dual layer)	6X CAV
BD-R (Triple Layer, Quadruple Layer)	4X P-CAV
BD-R (L to H)	5X CAV
BD-RE (Single layer, Dual layer)	5X CAV
BD-RE (Triple Layer)	2X CLV
DVD-ROM (Single layer)	8X CAV
DVD-ROM (Dual layer: Include BD9)	8X CAV
DVD-R/RW	8X CAV
DVD-R DL (Dual Layer) / +R DL (Double Layer)	8X CAV
DVD+R/RW	8X CAV
DVD-RAM	5X Z-CLV
DVD-Video (Single layer)	2X CLV
DVD-Video (Dual layer)	2X CLV
8cm DVD-ROM, DVD-R/RW	5.5X CAV
8cm DVD-Video	2X CLV
CD-ROM	24X CAV
Video CD	9.6X CAV
CD-DA, CD-TEXT, Mixed-CD, CD-Extra (Play audio)	9.6X CAV
CD-DA, CD-TEXT, Mixed-CD, CD-Extra (Data extraction)	24X CAV
CD-R	24X CAV
CD-RW	24X CAV
8cm CD-ROM, CD-R/RW	16X CAV
8cm CD-DA (Play audio)	6.6X CAV

Note: Rotation speed will go down automatically and read retry is performed if uncorrectable read error is detected at a normal reading speed.

At worst case, it is down 1X CLV at BD or DVD reading, 4XCLV at CD reading.

## 7.3. Write Speed

Media Type	Transfer Speed
BD-R (Single Layer, Dual Layer)	2X CLV
	4X Z-CLV
	6X Z-CLV
	6X CAV
BD-R (Triple Layer, Quadruple Layer)	2X CLV
	4X Z-CLV
BD-R (L to H)	2X CLV
	4X Z-CLV
BD-RE (Single Layer, Dual Layer, Triple Layer)	2X CLV
DVD-R	1X CLV
	2X CLV
	4X Z-CLV
	6X Z-CLV
	8X Z-CLV
	8X CAV
DVD-R DL (Dual Layer)	2X CLV
	4X Z-CLV
	6X P-CAV
	6X Z-CLV
DVD-RW	1X CLV
	2X CLV
	4X Z-CLV
	6X Z-CLV
8cm DVD-R/RW	1X CLV
	2X CLV
DVD+R	2.4X CLV
	4X Z-CLV
	6X Z-CLV
	8X Z-CLV
	8X CAV
DVD+R DL (Double Layer)	2.4X CLV
	4X Z-CLV
	6X P-CAV
	6X Z-CLV
DVD+RW	2.4X CLV
	3.3X CLV
	4X Z-CLV
	6X Z-CLV
	8X Z-CLV
8cm DVD+R/RW	2.4X CLV
DVD-RAM	2X CLV



CD-R		3X CLV
		5X Z-CLV
		4X CLV
		10X-CLV
		16X Z-CLV
		24X Z-CLV
		24X CAV
CD-RW	Multi Speed	4X CLV
	High Speed	4X CLV
		10X CLV
	Ultra Speed Ultra Speed+	10X CLV
		16X Z-CLV
		24X Z-CLV
8cm CD-R		4X CLV
		10X CLV
8cm Multi Speed CD-RW		4X CLV
8cm High Speed CD-RW		4X CLV
		10X CLV
8cm Ultra Speed CD-RW		4X CLV
		10X CLV

**7.4. Applicable Write Format**

<b>BD-RE</b>	Random Recording
<b>BD-R</b>	Sequential Recording
<b>DVD-R</b>	Disc at Once Incremental Recording (Multi-Border Recording)
<b>DVD-RW</b>	Restricted Overwriting Disc at Once Incremental Recording (Multi-Border Recording)
<b>DVD+R</b>	Sequential Recording (Multi-Session Recording)
<b>DVD+RW</b>	Random Recording
<b>DVD-RAM</b>	Random Recording
<b>CD-R and CD-RW</b>	Disc at Once Track at Once Session at Once Packet Recording (Multi-Session Recording)

**7.5. Disc Size Diameter**

φ120mm / φ80mm

\* The drive does not support Non-Standard discs such as Shaped or Biz Card size discs.

\* The drive does not support 8cm disc adapter.

## 7.6. Sustained Data Transfer Rate (Theoretical value)

### Data Read

Parameter	Inner	Ave.	Outer	Unit	Note	
Sustained	BD	11,340	-	27,000	Kbytes/sec	2.5X - 6X CAV mode over32 Block Transfer
	DVD	4,455	-	10,800		3.3X-8X CAV mode over16 Block Transfer
	DVD- RAM	4,155	-	6,925		3X-5X Z-CLV mode over16 Block Transfer
	CD	1,545	-	3,600		10.3-24X CAV mode over16 Block Transfer

Note: The value of "DVD" is specified when DVD-ROM Single Layer Disc is used.

The value of "BD" is specified when BD-ROM Single Layer Disc is used.

### Data Write

Parameter	Inner	Ave.	Outer	Unit	Note	
Sustained	BD-R	11,340	-	27,000	Kbytes/sec	6X CAV BD-R write
	DVD	4,455	-	10,800		8X CAV DVD-R/+R write
	DVD- RAM	4,155	-	6,925		3X-5X Z-CLV write
	CD	1,545	-	3,600		24X CAV CD-R write

Note: The drive automatically slow down disc rotation speed to ensure data reading when imbalanced, warped or scratched disc is read. At this time, data transfer rate becomes lower than its specifications.

The transfer rate at CD-ROM is specified when 1.3m/s scanning velocity disc is played.

## 7.7. Buffer Memory Size

4 Mbytes

## 7.8. Access Time/Seek Time

Parameter		Ave.	Unit	Note
Access Time	BD	220	msec	Random Average
	DVD	190		
	DVD-RAM	230		
	CD	180		
Random Seek Time	BD	200	msec	Random Average
	DVD	170		
	DVD-RAM	210		
	CD	160		
Full Stroke Seek Time	BD	350	msec	Average
	DVD	340		
	DVD-RAM	400		
	CD	330		

Note: The value of "CD" is specified when CD-ROM Mode1 Disc is used.

The value of "DVD" is specified when DVD-ROM Single Layer Disc is used.

## 7.9. Initializing Time/Stating Time/Stop Time

Parameter		Spec (TYP.)	Note
Initializing Time	BD-ROM(S)	7 sec	The period between disc spin up and pause on the first address after TOC reading. Takes 4 more sec. for BCA disc.
	BD-ROM(D)	9 sec	
	BD-RE	16 sec	
	BD-R	14 sec	
	CD-ROM	9 sec	
	CD-R	11 sec	
	CD-RW	11 sec	
	DVD-ROM(S)	8 sec	
	DVD-ROM(D)	11 sec	
	DVD-R(S)	10 sec	
	DVD-RW	12 sec	
	+R(S)	10 sec	
	+RW	12 sec	
DVD-RAM	38 sec		
Starting Time	BD, DVD, CD	3 sec	The period between spindle stop condition and pause on the track number one. (after initialization, in response to start command)
Stop Time	BD, DVD, CD	3 sec	The period between pause condition and spindle stop condition by stop command.

Note: The value of "CD" is specified when CD-ROM Mode1 Disc is used.

The value of "DVD" is specified when DVD-ROM Single Layer Disc is used.

The value of "BD" is specified when BD-ROM Single Layer Disc is used.

**7.10. Acoustic**

<b>Item</b>	<b>Spec.(TYP)</b>	<b>Note</b>
Sound Pressure	Less than 45dB(A)	Without loading operation, at 1m horizontal setting, with 0.25 gcm imbalance disc at 5,160rpm. Sequential read and random seek operation.

## 8. Dimensions / Weight / Eject Distance / Packing

### 8.1. Dimensions / Weight / Eject Distance

Dimensions: W128mm x D129mm(Including Front Bezel) x H12.7mm(Excluding Front Bezel)

Net Weight: 180g (with Bezel)

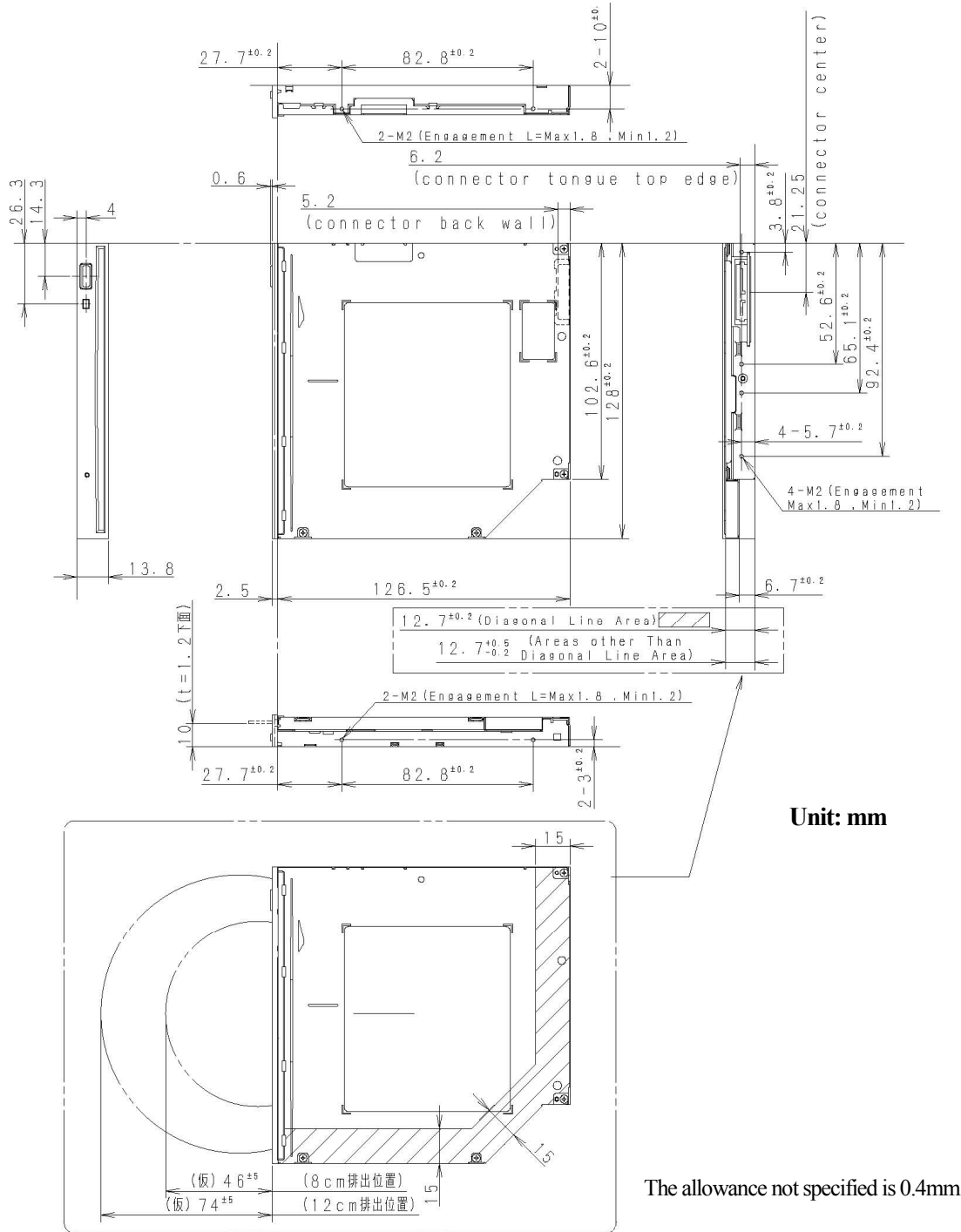


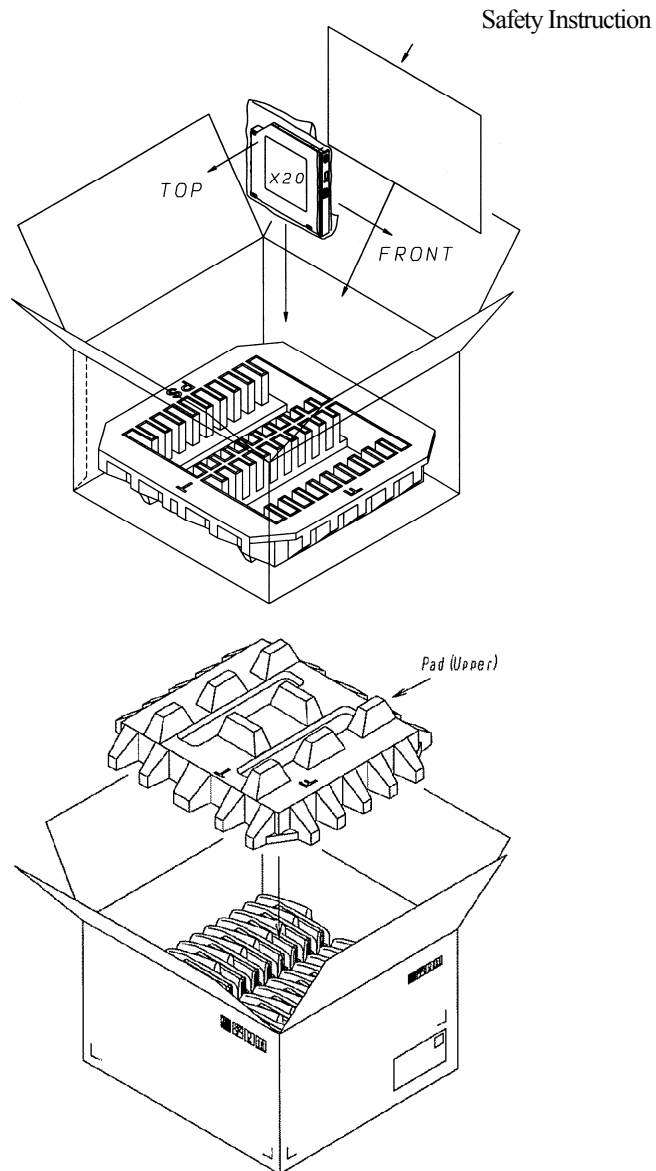
Figure 8-A: Drive Dimensions

**8.2. Dimensions and Weight of Packing Box**

(20pcs Bulk Packaging)

Dimensions: W 383mm x D 353mm x H 254mm

Gross Weight: 4.7kg

**8.3. Packaging Condition**

**Condition: Bulk Package**

**Figure 8-B: Packaging Condition**

## **9. Safety and Radiation**

### **9.1. Safety Regulation**

(UL)	UL60950-1 2nd Edition
(cUL)	CAN/CSA C22.2 No.60950-1-07 2nd Edition
(CB Report)	IEC 60950-1 : 2005
(TUV)	EN60950-1 2006

### **9.2. Laser**

(IEC-LASER)	IEC60825-1 2007 Ed.2
(EN-LASER)	EN60825-1 2007
(FDA)	FDA 21CFR Sub chapter J, Laser Notice No.50

### **9.3. EMC**

(IEC-EMC)	IEC CISPR22 2008 Ed.6.0 IEC CISPR24 1997+A1 : 2001+A2 : 2002
(FCC)	FCC Part15B Class B
(ICES)	ICES-003 ClassB Issue 4 February 2004
(CE)	EN 55022 2006+A1 : 2007、EN 55024 : 1998+A1 : 2001+A2 : 2003
(BSMI)	CNS 13438 2006
(C-Tick)	AS/NZS CISPR22 2009

**10. Reliability****10.1. MTBF**

(Mean Time Between Failure)

60,000 POH (duty: read 16% , write 4%)

**10.2. Loading/Unloading Durability (Room Temp.)**

15,000 Times (12cm)

5,000 times (8cm)

**10.3. Interface Connector Attach / Detach**

500Times



**11. Change History**

Rev.	Date	Page	Changes (Old -> Revised)
1.00	2011/12/01	n/a	Initial Release

**12. Notes**

- \* Specifications and drawings are subject to change according to its improvement.
- \* Microsoft, Windows are trademarks of Microsoft Corporation.

SATA 12.7mm Height Slot  
BD/DVD/CD WRITER

**BD-W26SS-BM3**  
PRODUCT SPECIFICATION

December 1st, 2011

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