

# TECHNICAL SPECIFICATION

FOR

**55cm/51cmV (22"/20"V) HIGH RESOLUTION  
DIGITAL CONTROL AUTO-TRACKING  
COLOR DISPLAY MONITOR**

**MODEL NAME: Diamond Pro 2060u  
(NSZ2107/2127STTUW)**

**DATE : SEP 5, 2001**

Drawn by

Checked by

**NEC-MITSUBISHI ELECTRIC VISUAL SYSTEMS CORPORATION**

REVISE	
To add the model for Australia(AS) 9/5/01 T.Wakabayashi A	

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• **Design and specifications are subject to change without any notice**

MODEL: NSZ2107STTUW

NO.	TYPE		NM VISUAL STANDARD	REMARKS
1	CRT	Size	55cm / 51cm V ( 22" / 20"V)	Diamondtron NF
		Grill Spacing(Phosphor Spacing)	0.24mm (0.25mm)	Aperture Grille
		Phosphor Type	B22 (EBU)	
		Face-plate	G-WARAS Coating	
		Electron Gun Type	S-NX-DBF	
		Face-plate Transmission	approx.38.4 % (Including face-plate coating)	
2	SCANNING	Horizontal Freq.	30k - 121kHz	
		Vertical Freq.	50 - 160Hz	
3	SIGNAL INPUT	Video Sync.	Analog	0.7Vp-p
			Composite Sync. with G-video	0.3Vp-p
			Composite Sync.	TTL Nega
			Separate Sync.	TTL Posi / Nega
		Termination (Impedance)	75 to Ground	
		Video Sync.	2.2k to Ground	
4	VIDEO	clock frequency	240MHz	
5	SCREEN CHARACTERISTICS	Display Resolution(Maximum)		2048 x 1536 ( addressable)
				1600 x 1200 ( recommend)
		Display size	Horizontal	396mm (4:3) 371mm (5:4)
			Vertical	297mm (4:3),(5:4)
		Misconvergence		Center : 0.25 mm , Corner : 0.35 mm
		Brightness (Full White)		100cd/m <sup>2</sup> at 9300K
6	CONTROL (User Controls)	Front	Power SW, Signal A/B / OSD off Button, Select Button(up/down/left/right) , Adjust Button (+/-)	
		OSD	Contrast, Bright, Color, RGB-Gain, Color Temperature 1/2/3/sRGB, Fine Picture mode, Factory Preset, Auto size adjust, Horiz-size, Horiz-position, Vert-size, Vert-position, Rotation, GTF-Auto Adjust, Factory Preset, Pincushion, Pin Balance, Keystone, Key-balance, Top-Pin, Top-balance, Bottom-Pin, Bottom-balance, Vert-Lin, Vert-Lin-Balance, Factory Preset, Corner Purity (TL/TR/BL/BR), Moire Cancel Level, Clamp pulse position, Factory Preset, Horiz-Convergence, Vert-Convergence, Degauss, Factory Preset, Input, Power Save, Control Lock, OSD Position, OSD turn off, Diagnosis, Language, Auto Save, All-reset, Factory preset	Micro-processor control. Color adjustment. (3 color preset)
7	CONNECTOR	Power Input	3P IEC Plug	
		Signal Input	DB9 - 15P x2 Auto-select	
8	POWER SUPPLY	Operating range	AC100 - 120V / 220 - 240V , 50 / 60 Hz	
		Power consumption (typ.)	140 W 1.4 A @100-120VAC 0.7 A @220-240VAC (without USB load) 155 W 1.55A @100-120VAC 0.75 A @220-240VAC (with USB load) Power save < 3W	
9	ENVIRONMENTAL CONDITION	Operating temperature	5 - 35°C	
		Relative humidity	10 - 90% (without condensation)	
10	WEIGHT		29.7kg	
11	CABINET	with Tilt / Swivel stand	NM Visual standard (W:495mm, H:493.5, D:473)	
12	REGULATION	Safety	UL / C-UL TÜV (GS)	
		EMC	FCC-B CE-Marking EN60950 EN55022 - B DOC-B EN55024 EN61000 - 3 - 2, - 3 - 3	
		X - Ray	DHHS RöV HWC	
		VLF / ELF	MPR - II , TCO91	
		Power Management	International Energy Star Program , Energy 2000	
		Ergonomics	TCO99 , TÜV (GS) , TÜV -Ergo	
13	OTHERS	Plug & Play	DDC2B (Signal A) , 2BI (Signal B)	
		Digital Dynamic Convergence		
		Communication	Universal Serial Bus (Self Powered Hub 500mA per 1 port ) 3 x Downstream Port , 1 x Upstream Port	

# 1. Regulations

## 1.1 Geographical Region and Regulations

GEOGRAPHICAL REGION	REGULATIONS						
	SAFETY	EMC	X-RAY	ELF/VLF	Power Management	Ergonomics	Miscellaneous
NSZ2107STTUW	UL C-UL TÜV-GS	FCC-B DOC-B EN55022-B EN55024 EN61000-3-2 EN61000-3-3 VCCI - B JPHG C-Tick	DHHS HWC RöV	MPR-II TCO'91	Energy Star Energy2000	TÜV-GS TÜV-Ergo	TCO'99 CE Marking
NSZ2127STTUW							

UL : UL1950 3rd Edition

C-UL : CAN/CSA-C22.2 NO.950:1995

TÜV-GS : EN60950 : 1992 & AD1/AD2/AD3/AD4/AD11 & ISO9241-3,-7and-8

FCC : 47 CFR Part15 Subpart B, Class B

DOC : Interference-Causing Equipment Standard ICES-003 Issue 3, Class B

DHHS : 21CFR Chapter I Subchapter J

HWC : Radiation Emitting Devices Regulations Chapter 1370

RöV : RöV Vom 8.1. 1987

MPR-II : MPR 1990:8

TCO'99 : Requirements for environmental labeling of personal computers (First Edition)

CE-Marking : EN60950:1992 & AD1/AD2/AD3/AD4/AD11

EN55022:1998 Class B

EN55024:1998

EN61000-3-2 : 1995 & AD1/AD2

EN61000-3-3 : 1995

Energy Star : International Energy Star office Equipment Program

VCCI : Guide to membership of Voluntary Control Council for Interference by data Processing Equipment and Electronic Office Machines , Class B .

JPHG (Japan Power Harmonics Guidelines) : Guidelines for the suppression of Harmonics in Appliances and General - Use Equipment

Energy2000 : Award Criteria for the Energy label 1999

TÜV-Ergo EN50279  
2PfG1041/11.99  
ISO 9241-3:1992  
ISO 9241-7:1998  
ISO 9241-8:1997

## 2. CRT Specifications

CRT model no.	M51LRY32X61
Type	Diamondtron NF (Aperture Grille)
Size	55cm / 51cm Diagonal View able Image (22" /20" Diagonal View able Image)
Grille Spacing	0.24mm
Phosphor Spacing	0.25mm
Deflection Angle	90 degree
Phosphor Type	B22 (Medium short persistence)
Electron Gun Type	S-NX-DBF
Face-plate Transmission	Approx. 38.4% (Include Face-plate coating)
Face-plate	G-WARAS Coating (Anti-reflection, Anti-glare and Anti-static)
Screen Phosphor Area	406.1 x 304.6 mm
Face-plate Curvature	H: R= 50000 mm , V: R= 80000 mm
Phosphor Color Coordinate	R: X=0.627 , Y=0.341 G: X=0.292 , Y=0.605 (Typical) B: X=0.149 , Y=0.072

### 3. Electric Specifications

#### 3.1 Deflections

Horizontal	Scanning Frequency	30 - 121kHz
	Back Porch	1.0 μsec
	Blanking	2.0 μsec
	H-sync Width	0.6 μsec
Vertical	Scanning frequency	50 - 160Hz
	V-sync + V-back Porch	400 μsec
	V-sync Width	3H Vs 10H---over 50kHz (fh) 2H Vs 10H---up to 50kHz (fh)
	V-Total Line	256H + V-sync Width

(\*) Full screen adjustment may not be available for the timing which

Tdh / Th < 72% - Over 100kHz (fh)

Tdh / Th < 74% - Up to 100kHz (fh)

Tdh : Horizontal Display Time

Th : Horizontal Scanning Time

#### 3.2 Signal Input

Video Input Signal	R.G.B analog
Sync. Input Signal	Composite sync with Green video (Sync on Green) External composite sync. , Negative TTL External HD/VD separate sync. TTL (N or P)
Video Input Impedance	75 Ω to ground
Sync. Input Impedance	2.2k Ω to ground
Signal Level	Video signal : 0.7V p-p +10% -5% Separate H/V-sync. : TTL level ( >2.5V) Sync on Green : 0.3V p-p ± 10%

#### 3.3 Video Performance

Video Clock Frequency	240MHz
Pulse Rise and Fall time	4.0nsec(typ.) 10 to 90% at 35Vp-p

- The rise and fall time of the input video signal is 2.0nsec or less.
- The pulse rise or fall time is determined using the formula :

$$T_a = \sqrt{T_m^2 - (T_s^2 + T_p^2 + T_{sc}^2)}$$

Where : Ta = Amplifier rise / fall time

Tm = Measured rise / fall time

Ts = Input signal rise / fall time

Tp = Probe effect on rise / fall time = 2.2 x Rl x Cp

Rl = Amplifier output resistance (ohm)

Cp = Total probe capacitance (F)

Tsc = Scope rise / fall time = 0.35 / Scope  
bandwidth (MHz)



### 3.4 Power Supply(TBD)

Input Voltage	100 - 120 / 220 - 240 VAC $\pm$ 10%
Frequency	50/60Hz $\pm$ 3Hz
Power Consumption (typ.)	140W 1.40A@100-120VAC 0.70A@220-240VAC (without USB load) 155W 1.55A@100-120VAC 0.75A@220-240VAC (with USB load)
AC leakage current	3.5mA
Inrush current	70A 0-peak at 240VAC on cold starting

### 3.5 Power Saving

	H-sync	V-sync	Video	Power Consumption	Recovery Time	LED Indicator
OFF	On	On	Active	140W	-	Green
ON	Off	On	Blank	3W	5 sec	Orange
	On	Off	Blank			
	Off	Off	Blank			

### 3.6 Degaussing

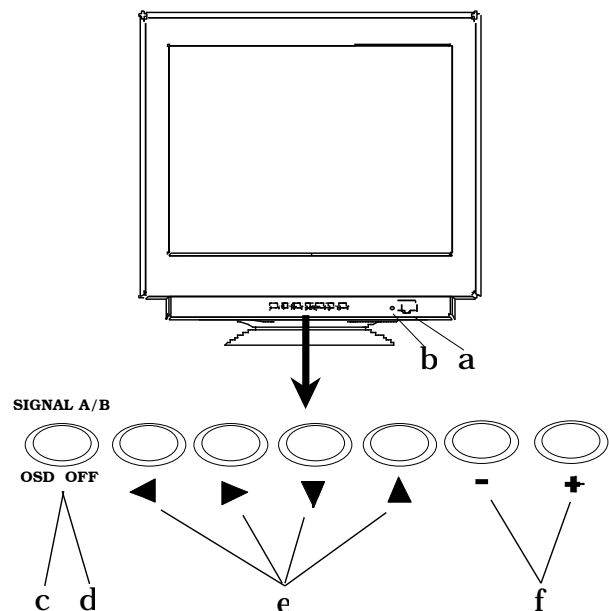
Auto Degaussing	The monitor have an automatic degaussing function which activates when the unit is turned on.
Manual Degaussing	This activates degaussing at the user's discretion after the unit is operating.

- The Monitor requires minimum 15 minutes after last degauss operation for full degauss capability.

## 4.Functions

### 4.1 Front Controls

- a : POWER SWITCH
- b : POWER-ON INDICATOR
- c : OSD OFF BUTTON
- d : SIGNAL A/B SELECT BUTTON
- e : ITEM SELECT BUTTONS
- f : FUNCTION ADJUST BUTTONS

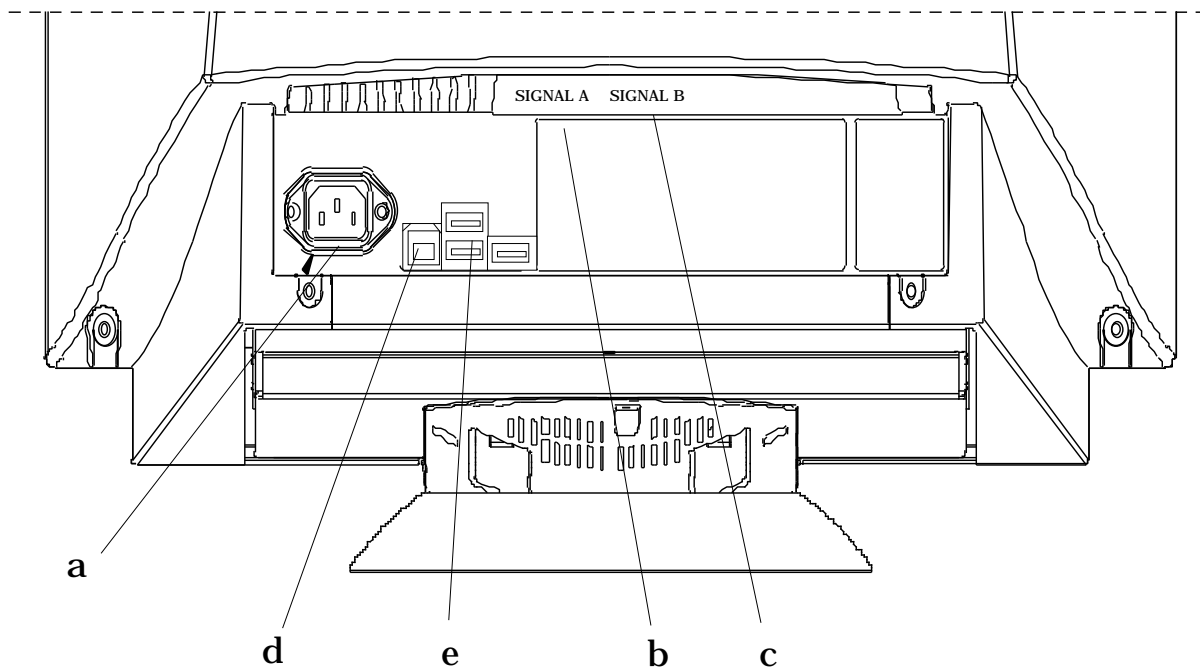


### 4.2 OSD(On Screen Display) Function

OSD1 Group		default	OSD4 Group		default
CONTRAST	0 - 100%	100%	CORNER PURITY(TL)	0 - 100%	adjusted
BRIGHT	0 - 100%	50%	CORNER PURITY(TR)	0 - 100%	adjusted
COLOR	1 (9300K)	1 (9300K)	CORNER PURITY(BL)	0 - 100%	adjusted
	2 (6500K)		CORNER PURITY(BR)	0 - 100%	adjusted
	3 (5000K)		MOIRE CANCEL LEVEL	0 - 100%	0%
	sRGB		CLAMP PULSE POSITION	Front / Back	Back
R-GAIN	0 - 100%	adjusted	FACTORY PRESET	PROCEED	-
G-GAIN	0 - 100%	adjusted			
B-GAIN	0 - 100%	adjusted			
COLOR TEMPERATURE	5000 - 9300K	9300K			
FINE PICTURE MODE	Normal/Text/Graphic	Normal			
FACTORY PRESET		PROCEED	-		
OSD2 Group		default	OSD5 Group		default
AUTOSIZE ADJUST	PROCEED	-	HORIZ-CONVERGENCE	0 - 100%	adjusted
HORIZ-SIZE	0 - 100%	adjusted	VERT-CONVERGENCE	0 - 100%	adjusted
HORIZ-POSITION	0 - 100%	adjusted	FACTORY PRESET	PROCEED	-
VERT-SIZE	0 - 100%	adjusted	OSD6 Group		default
VERT-POSITION	0 - 100%	50%	INPUT	SIGNAL A/B	-
ROTATION	0 - 100%	adjusted	DEGAUSS	PROCEED	-
GTF AUTO ADJUST	PROCEED	-	POWER-SAVE	OFF/ON	ON
FACTORY PRESET	PROCEED	-	CONTROL LOCK	OFF/ON	Off
			OSD POSITION	<-- -->	Center
			OSD TURN OFF	5SEC - 120SEC	45SEC
OSD3 Group		default	DIAGNOSIS	Preset Information	
PINCUSHION	0 - 100%	adjusted		Horizontal Frequency	
PIN-BALANCE	0 - 100%	adjusted		Vertical Frequency	
KEystone	0 - 100%	adjusted		Video Information	
KEY-BALANCE	0 - 100%	adjusted	LANGUAGE	ENG/GER ESP/FRA ITA/JPN	ENG
TOP-PIN	0 - 100%	adjusted			
TOP-BALANCE	0 - 100%	adjusted	AUTO SAVE	Off / On	ON
BOTTOM-PIN	0 - 100%	adjusted	ALL RESET	PROCEED	-
BOTTOM-BALANCE	0 - 100%	adjusted	FACTORY PRESET	PROCEED	-
VERT-LIN	0 - 100%	adjusted			
VERT-LIN-BALANCE	0 - 100%	adjusted			
FACTORY PRESET	PROCEED	-			

### 4.3 Back Panel

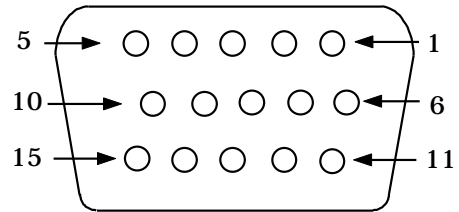
- a : AC POWER CONNECTOR (3P IEC Plug)
- b : SIGNAL A INPUT CONNECTOR (DB9 -15P)
- c : SIGNAL B INPUT CONNECTOR (DB9 -15P)
- d : USB UPSTREAM PORT
- e : USB DOWNSTREAM PORTX3



#### 4.4 Connector Pin Assignment

##### 1) Signal Input Connector (DB9-15P)

Pin	Signal
1	Red-video
2	Green-video
3	Blue-video
4	Gnd
5	DDC Gnd
6	Red Gnd
7	Green Gnd
8	Blue Gnd
9	-
10	Sync Gnd
11	Gnd
12	Serial data
13	H-sync or Composite sync
14	V-sync (V-clock)
15	Serial clock



Rear Panel

#### 4.5 DDC (Display Data Channel) Functions

VESA DDC2B(EDID data only) Compliance (for Signal A).

VESA DDC2Bi Compliance (for Signal B).

See Appendix 2 for EDID data.

#### 4.6 Preset Timing

Factory-preset :10(max22) see Appendix 1 for detail timing parameters.

User-preset :15

##### Preset Timing Discrimination

Horizontal Frequency	1kHz
Vertical Frequency	1Hz
Sync Signal Polarity	H or V-sync signal polarity is different.

- The monitor is able to discriminate input signals by at least one of above parameters.

#### 4.7 USB (Universal Serial Bus)

Comply with Universal Serial Bus Specification Revision 1.1

Self Powered HUB(500mA max per 1 Downstream port)

3xDownstream Port.

1xUpstream

## 5. Display Quality

### 5.1 Test Conditions

AC Voltage	120VAC 60Hz or 230VAC 50Hz
Video Signal	1600 x 1200 (106kHz at 85Hz Hz) 0.7Vp-p
Warm Up	More than 30 min. with full white picture
Temperature	20 - 25 °C
Relative Humidity	40 - 80%
Magnetic Field	BH=0, BV=0.040mT / BV=-0.04mT(AS)
Contrast & Brightness	Contrast maximum and Brightness detent position
Display Size	396 x 297mm for 4:3 aspect ratio
Ambient light	200 ± 50 lx
Luminance Meter	Minolta CA100 or Equivalent

•Unless specified, the monitor is set at the factory default setting.

### 5.2 Display size

4:3 aspect ratio	Width: 396mm , Height: 297mm
5:4 aspect ratio	Width: 371mm , Height: 297mm

### 5.3 Luminance

Luminance at CRT center	Full White: 100cd/m <sup>2</sup> (at Color No.1) 85 cd/m <sup>2</sup> (TBD) (at Color No.2) 70 cd/m <sup>2</sup> (at Color No.3)
Luminance Variation	Luminance / Center Luminance: 25%
Back Raster Luminance	Approx. 0.3 cd/m <sup>2</sup> at Brightness detent position Raster must not visible at minimum Brightness control

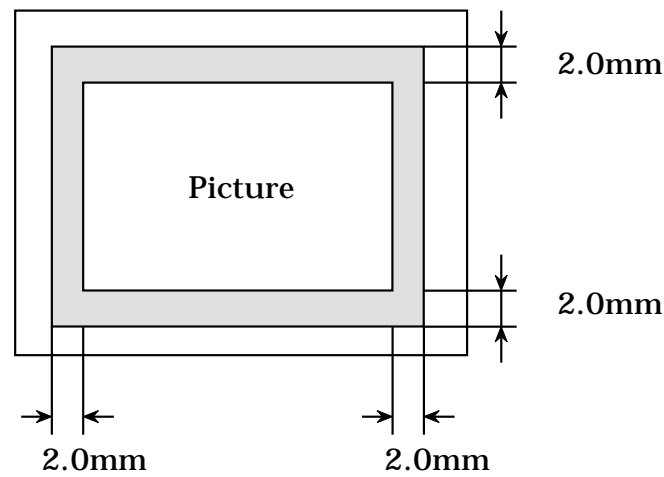
### 5.4 Color

Color Temperature	Color-1: 9300K + 8 M.P.C.D. X=0.283 ± 0.015 Y=0.297 ± 0.015
	Color-2: 6500K X=0.313 ± 0.015 Y=0.329 ± 0.015
	Color-3: 5000K + 8 M.P.C.D. X=0.345 ± 0.015 Y=0.359 ± 0.015
White Uniformity	0.015: in either the X or Y shift between the center and peripheral area
Color Tracking	Contrast Control: ±0.020 from 25cd/m <sup>2</sup> to Maximum at detent Brightness position

5.5 Overall Distortion

Distortion Except rotation and centering	H: 2.0mm , V: 2.0mm
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- With Green-Crosshatch applied.
- The other distortion is defined as the total of all image distortion excluding rotation and display centering.



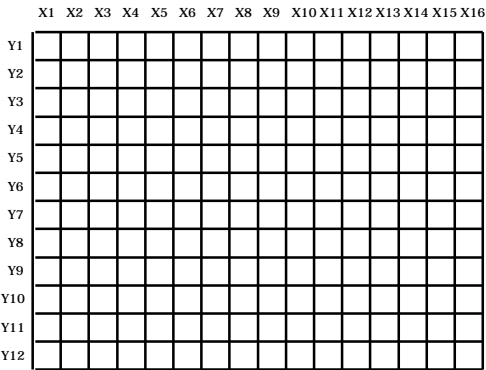
5.6 Linearity

Linearity	H: 15%(30-40k) , 12%(40-60k) , 10%(60-121k) adjacent: 7%
	V: 10% adjacent: 7%

- at preset timings
- With Green-Crosshatch (17 lines horizontally by 13 lines vertically ) applied.
- The formula used to calculate linearity is:

$$\frac{X_{\max} - X_{\min}}{(X_{\max} + X_{\min})/2} \times 100\%$$

$$\frac{Y_{\max} - Y_{\min}}{(Y_{\max} + Y_{\min})/2} \times 100\%$$



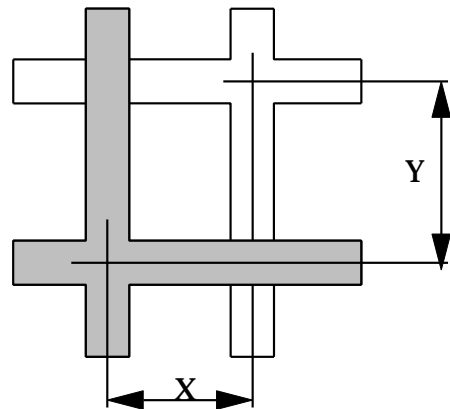
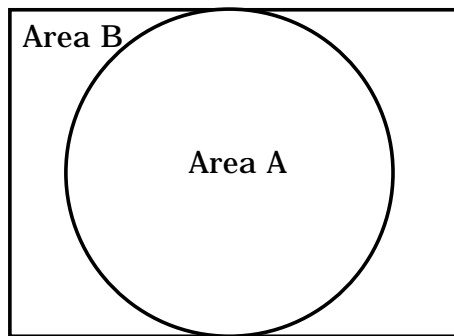
$$X1=X2=X3= \dots =X16$$

$$Y1=Y2=Y3= \dots =Y12$$

## 5.7 Misconvergence

Misconvergence	Area A: 0.25 mm within the 297mm diameter circle
	Area B: 0.35 mm within 396mm x 297mm

- With White-Crosshatch applied.
- Zone A is a circular area with 297mm diameter at the center.
- Zone B is a rectangular area (396mm x 297mm) outside of the zone A.
- Use worst case horizontal/vertical misconvergence between any two primary colors.





## 5.8 Focus

Focus	Displaying 7 x 9 pixel "e" with white single pixel strokes, the entire screen shall be readable with clearly discernible characters at normal viewing distance.
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## 5.9 Raster Regulation

Raster Size Regulation	0.5% of the horizontal or vertical picture size
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- The picture size change is less than adjusted value in either the horizontal or vertical direction over 30% to 100% luminance range and 90 - 132VAC or 198 - 264VAC Input respectively.

## 6. Mechanical Specifications

### 6.1 Cabinet , Tilt / Swivel Base

Molded material	Cabinet : ABS (Flame Class HB) Tilt /Swivel Base : ABS (Flame Class HB)
Cabinet color	Grayish White (Mitsubishi Control Color No. : B-N-C039)
Bezel Logo	See Fig.2
Tilt & Swivel	Right & Left : -90°to +90° Up & Down : 10° to -5°
Dimension	495mm (W) x 493.5mm (H) x 473mm(D) 19.5" (W) x 19.4" (H) x 18.6" (D) (include Tilt /Swivel Base, see Fig.1)

### 6.2 Rating Label

see Fig. 3-1(US/EU) Fig.3-2(AS)

### 6.3 Carton Box

Paper Material	Kraftliner and trifaced corrugated board (Double wall)	
Carton Box Print	North America	See Fig.5 -1
	Europe	See Fig.5-2
	Australia	See Fig.5-3
Dimension	See Fig.4	
Packing Contents	See Fig.6	

### 6.4 Weight

Net	approx. 29.7 kg (65.5 lbs)
Gross	approx. 35 kg (77 lbs)

### 6.5 Accessories

AC Power Cord	North America		see Fig.7-1
	Europe	except UK	see Fig.7-2
		U.K.	see Fig.7-3
	Australia		see Fig.7-4
Signal Cable			SC-B110 : see Fig.8
User's Guide	North America		English,French
	Europe		5 Languages ( English, German
	Australia		, French, Italian, Spanish ) English
USB Cable			see Fig.9

## 7. Environmental Conditions

### 7.1 Temperature, Relative Humidity & Altitude

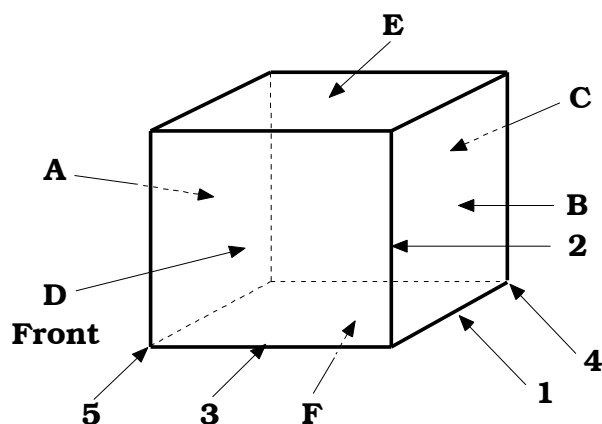
	Operating	Storage and shipment
Temperature	5 - 35°C	-20 - 60°C
Relative Humidity	10 - 90% without condensation	10 - 90% without condensation
Altitude	3000m (10000ft)	15000m (50000ft)

### 7.2 Vibration Test (with carton box)

#### 1) Random Vibration

Test Axis	3 axis
Search Frequency	5 - 200Hz
Acceleration	0 - 14.42m/s <sup>2</sup> rms
Dwelling Time	30 minutes x 3 axis
Mounting	fixed firmly on the vibration table

## 7.2 Drop Test (with carton box)



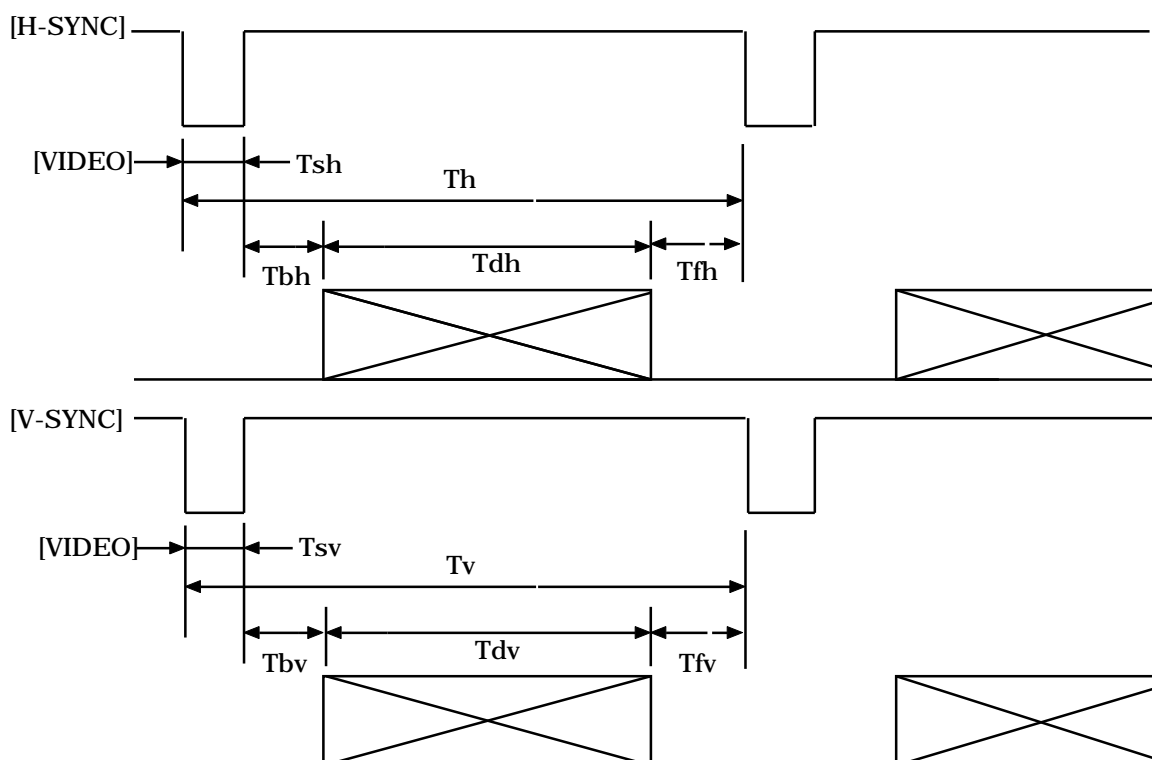
The inside unit shall be withstand without any damage by following procedure.

Drop to the hard wooden board from the position of the following heights.

After finish the drop test of edges (3 position) and also corners(2 position), tester has to change to new cushion. However for the carton box, tester must not change to the new box and use the damaged box continuously.

	Position	Height
Edge	1,2,3	40.5cm(16inch)
Corner	4,5	40.5cm(16inch)
Other Surfaces	A,B,C,D	40.5cm(16inch)
Top Surface	E	34.5cm(14inch)
Bottom Surface	F	46cm(18inch)

# Appendix 1 Preset Timing Chart



NO.	Clock (MHz)	Th ( $\mu$ SEC) (dot)	Tsh ( $\mu$ SEC) (dot)	Tfh ( $\mu$ SEC) (dot)	Tbh ( $\mu$ SEC) (dot)	Tdh ( $\mu$ SEC) (dot)	Tv (mSEC) (line)	Tsv (mSEC) (line)	Tfv (mSEC) (line)	Tbv (mSEC) (line)	Tdv (mSEC) (line)	Hs	Vs	Fh (kHz)	Fv (Hz)	REMARK S
1	25.175	31.778 (800)	3.813 (96)	0.636 (16)	1.907 (48)	25.422 (640)	16.683 (525)	0.064 (2)	0.318 (10)	1.048 (33)	15.253 (480)	-	-	31.469	59.940	VESA 640*480 / 60Hz
2	49.500	21.333 (1056)	1.616 (80)	0.323 (16)	3.232 (160)	16.162 (800)	13.333 (625)	0.064 (3)	0.021 (1)	0.448 (21)	12.800 (600)	+	+	46.875	75.000	VESA 800*600 / 75Hz
3	78.750	16.660 (1312)	1.219 (96)	0.203 (16)	2.235 (176)	13.003 (1024)	13.328 (800)	0.050 (3)	0.017 (1)	0.466 (28)	12.795 (768)	+	+	60.023	75.029	VESA 1024*768 / 75Hz
4	94.500	14.561 (1376)	1.016 (96)	0.508 (48)	2.201 (208)	10.836 (1024)	11.765 (808)	0.044 (3)	0.015 (1)	0.524 (36)	11.183 (768)	+	+	68.677	84.997	VESA 1024*768 / 85Hz
5	135.000	12.504 (1688)	1.067 (144)	0.119 (16)	1.837 (248)	9.481 (1280)	13.329 (1066)	0.038 (3)	0.013 (1)	0.475 (38)	12.804 (1024)	+	+	79.976	75.025	VESA 1280*1024 / 75Hz
6	157.500	10.971 (1728)	1.016 (160)	0.406 (64)	1.422 (224)	8.127 (1280)	11.761 (1072)	0.033 (3)	0.011 (1)	0.483 (44)	11.235 (1024)	+	+	91.146	85.027	VESA 1280*1024 / 85Hz
7	202.500	10.667 (2160)	0.948 (192)	0.316 (64)	1.501 (304)	7.901 (1600)	13.333 (1250)	0.032 (3)	0.011 (1)	0.491 (46)	12.800 (1200)	+	+	93.750	75.000	VESA 1600*1200 / 75Hz
8	229.500	9.412 (2160)	0.837 (192)	0.279 (64)	1.325 (304)	6.972 (1600)	11.765 (1250)	0.028 (3)	0.009 (1)	0.433 (46)	11.294 (1200)	+	+	106.250	85.000	VESA 1600*1200 / 85Hz
9	297.000	8.889 (2640)	0.754 (224)	0.485 (144)	1.185 (352)	6.465 (1920)	13.333 (1500)	0.027 (3)	0.009 (1)	0.498 (56)	12.800 (1440)	-	+	112.500	75.000	GTF 1920*1440 / 75Hz
10	299.667	8.303 (2488)	0.667 (200)	0.481 (144)	1.148 (344)	6.007 (1800)	11.765 (1417)	0.025 (3)	0.008 (1)	0.523 (63)	11.208 (1350)	-	-	120.445	85.000	GTF 1800*1350 / 85Hz

## Appendix 2 EDID data for VESA DDC

Manuf Code: MEL	640x480 @ 72 Hz	Standard Timing #7:
Product Code LSB (HEX): 11	640x480 @ 75 Hz	Horizontal Active Pixels: 1024
Product Code MSB (HEX): 45	800x600 @ 56 Hz	Aspect Ratio: 4:3
Product Code (DEC): 17681	800x600 @ 60 Hz	(768 active lines)
(Microsoft INF ID: MEL4511)	800x600 @ 72 Hz	Refresh Rate: 85 Hz
Serial Number (DEC): **	800x600 @ 75 Hz	Standard Timing #8:
Serial Number (HEX): **	832x624 @ 75 Hz	Horizontal Active Pixels: 800
Week of Manuf: WW	1024x768 @ 87 Hz (I)	Aspect Ratio: 4:3
Year of Manuf: YY	1024x768 @ 60 Hz	(600 active lines)
	1024x768 @ 70 Hz	Refresh Rate: 85 Hz
EDID Version: 1	1024x768 @ 75 Hz	Detailed Timing (block #1):
EDID Revision: 2	1152x870 @ 75 Hz	Pixel Clock: 299.67 MHz
Extension Flag: 0	1280x1024 @ 75 Hz	Horizontal Active: 1800 pixels
Video:	Standard Timing #1:	Horizontal Blanking: 688 pixels
Input Singal: ANALOG	Horizontal Active Pixels: 640	Vertical Active: 1350 lines
Setup: NO	Aspect Ratio: 4:3	Vertical Blanking: 67 lines
Sync on Green: YES	(480 active lines)	(Horizontal Frequency: 120.45 kHz)
Composite Sync: YES	Refresh Rate: 85 Hz	(Vertical Frequency: 85.0 Hz)
Separate Sync: YES	Standard Timing #2:	Horizontal Sync Offset: 144 pixels
V Sync Serration: NO	Horizontal Active Pixels: 1920	Horizontal Sync Width: 200 pixels
V Signal Level: 0.700V/0.300V (1V p-p)	Aspect Ratio: 4:3	Vertical Sync Offset: 1 lines
	(1440 active lines)	Vertical Sync Width: 3 lines
Max Image Size H: 40 cm	Refresh Rate: 75 Hz	Horizontal Border: 0 pixels
Max Image Size V: 30 cm	Standard Timing #3:	Vertical Border: 0 lines
DPMS Stand By: YES	Horizontal Active Pixels: 1600	Horizontal Image Size: 396 mm
DPMS Suspend: YES	Aspect Ratio: 4:3	Vertical Image Size: 297 mm
DPMS Active Off: YES	(1200 active lines)	Interlaced: NO
GTF Support: YES	Refresh Rate: 85 Hz	Image: Normal Display
Standard Default Color Space: NO	Standard Timing #4:	Sync: Digital Separate
Preferred Timing Mode: NO	Horizontal Active Pixels: 1600	Bit 1: OFF
Display Type: RGB Color	Aspect Ratio: 4:3	Bit 2: OFF
Color:	Refresh Rate: 75 Hz	Monitor Range Limits (block #2):
Gamma: 2.20	Standard Timing #5:	Minimum Vertical Rate: 50 Hz
Red x: 0.627	Horizontal Active Pixels: 1280	Maximum Vertical Rate: 160 Hz
Red y: 0.341	Aspect Ratio: 5:4	Minimum Horizontal Rate: 30 kHz
Green x: 0.292	(1024 active lines)	Maximum Horizontal Rate: 121 kHz
Green y: 0.605	Refresh Rate: 85 Hz	Maximum Pixel Clock: 360 MHz
Blue x: 0.149	Standard Timing #6:	GTF Data: 00 0a 20 20 20 20 20 20
Blue y: 0.072	Horizontal Active Pixels: 2048	Monitor Name (block #3): NSZ2107U
White x: 0.283	Aspect Ratio: 4:3	Monitor Serial Number (block #4): #####
White y: 0.297	(1536 active lines)	EDID EDITOR V1.40 (000621)
Established Timings:	Refresh Rate: 75 Hz	(C) Mitsubishi Electric 1995-2000
720x400 @ 70 Hz		
720x400 @ 88 Hz		
640x480 @ 60 Hz		
640x480 @ 67 Hz		

•CABINET COLOR : Graysh white

•TILT / SWIVEL BASE

Swivel Angle : +90° ~ -90°

Tilt Angle : +10° ~ -5°

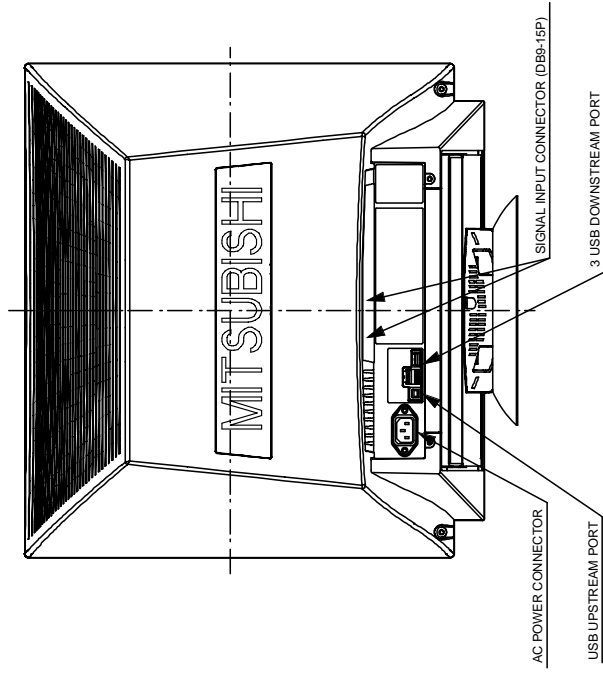
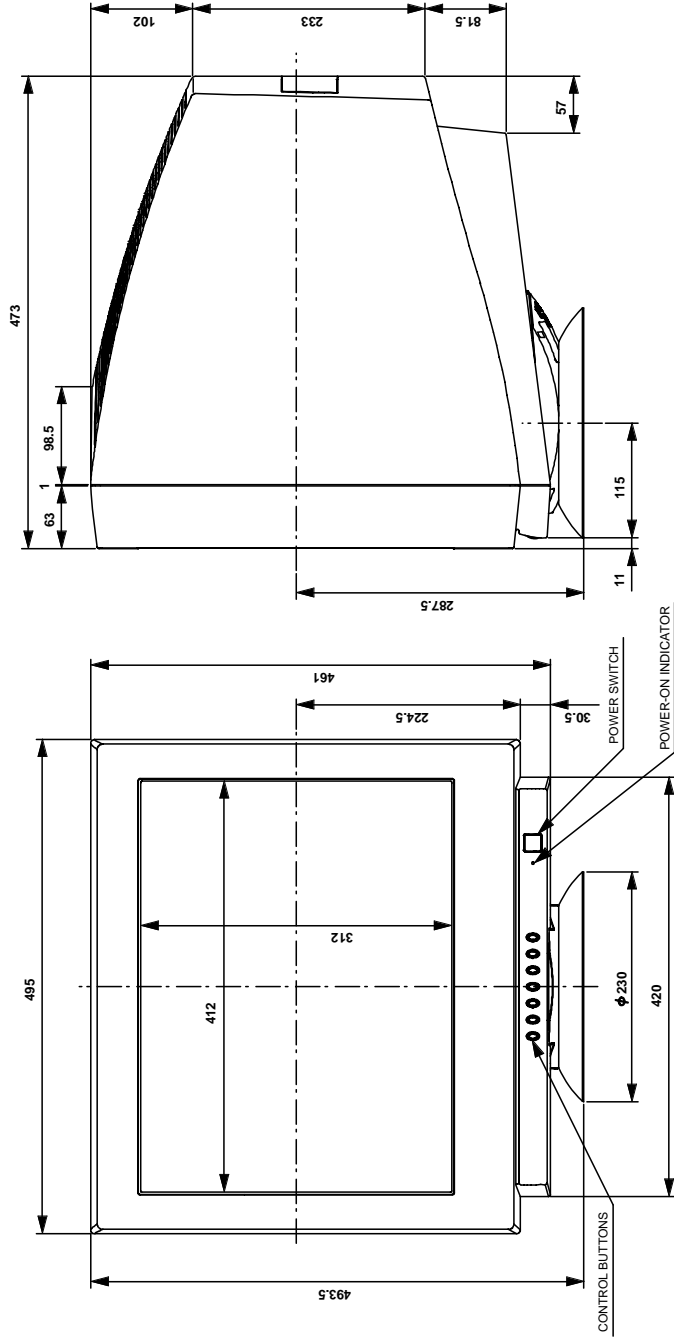
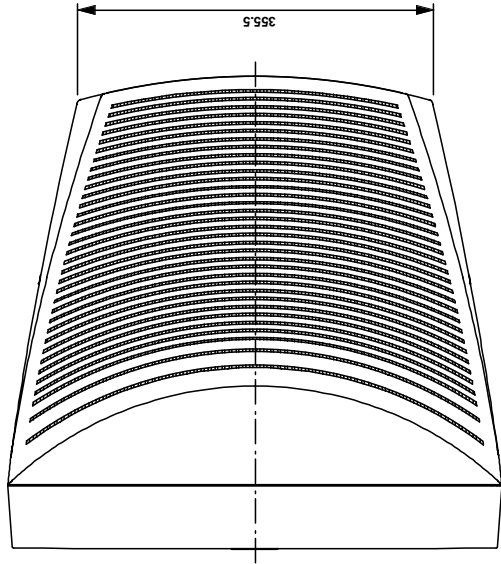
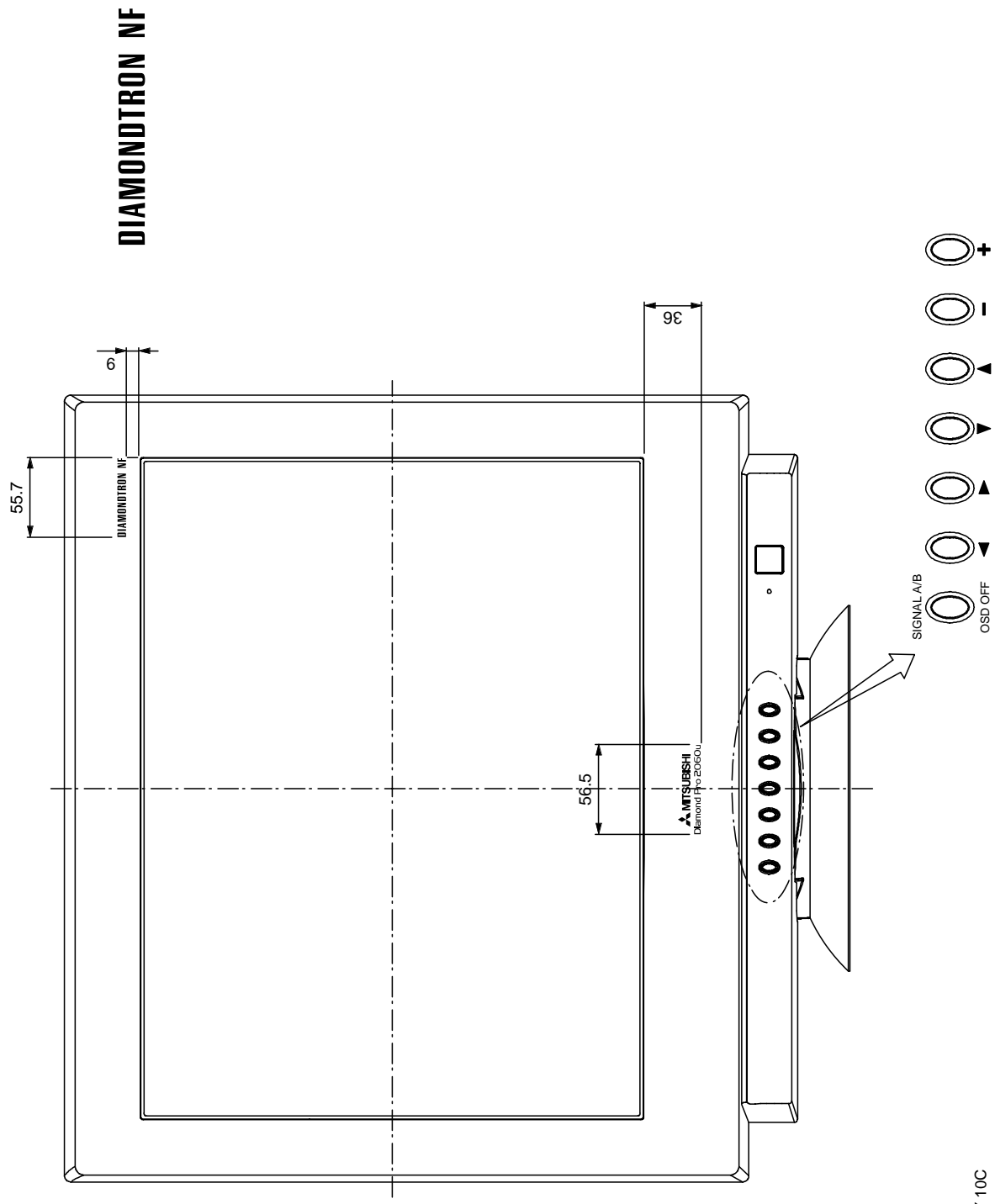


Fig. 1 OUTLINE

VSP-C0459A



**mitsubishi**  
Diamond Pro 2060u

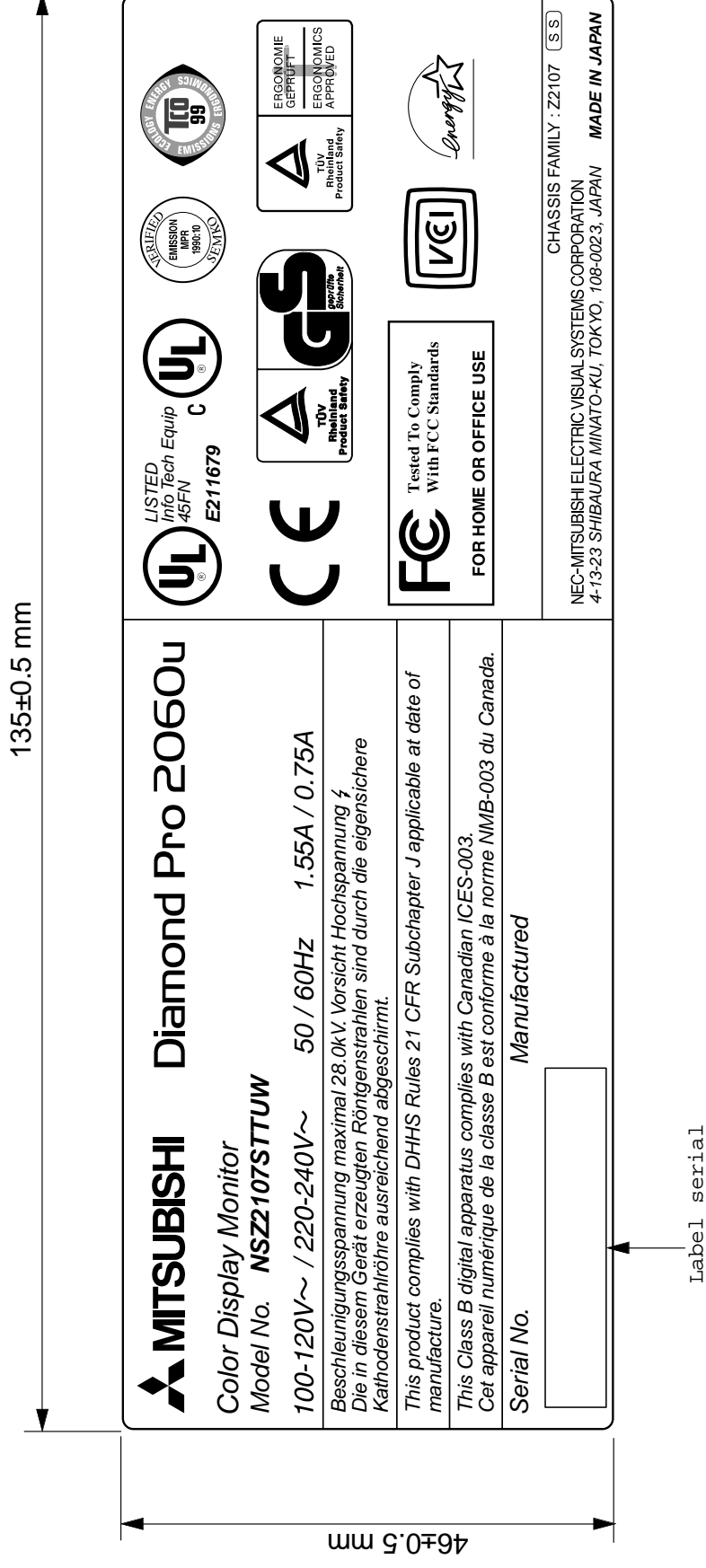
COLOR OF LETTERING:PANTONE COOL GRAY 10C

Fig. 2 BEZEL LOGO




VSP-C0459A



COLOR OF LETTERING ..... Pantone cool gray 10C









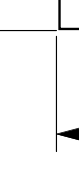



VSP-C0459A


<div>46±0.5 mm</div>	<table><tr><td> <b>MITSUBISHI</b></td><td><b>Diamond Pro 2060u</b></td></tr><tr><td><b>Color Display Monitor</b></td><td></td></tr><tr><td><b>Model No. NSZ2107STTUW</b></td><td></td></tr><tr><td><b>100-120V~ / 220-240V~    50 / 60Hz    1.55A / 0.75A</b></td><td></td></tr><tr><td><b>Beschleunigungsspannung maximal 28.0kV. Vorsicht Hochspannung ! Die in diesem Gerät erzeugten Röntgenstrahlen sind durch die eigensichere Kathodenstrahlröhre ausreichend abgeschirmt.</b></td><td></td></tr><tr><td><b>This product complies with DHHS Rules 21 CFR Subchapter J applicable at date of manufacture.</b></td><td></td></tr><tr><td><b>This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.</b></td><td></td></tr><tr><td><b>Serial No.                      Manufactured</b></td><td><div></div></td></tr></table>	 <b>MITSUBISHI</b>	<b>Diamond Pro 2060u</b>	<b>Color Display Monitor</b>		<b>Model No. NSZ2107STTUW</b>		<b>100-120V~ / 220-240V~    50 / 60Hz    1.55A / 0.75A</b>		<b>Beschleunigungsspannung maximal 28.0kV. Vorsicht Hochspannung ! Die in diesem Gerät erzeugten Röntgenstrahlen sind durch die eigensichere Kathodenstrahlröhre ausreichend abgeschirmt.</b>		<b>This product complies with DHHS Rules 21 CFR Subchapter J applicable at date of manufacture.</b>		<b>This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.</b>		<b>Serial No.                      Manufactured</b>	<div></div>	<div>135±0.5 mm</div>
 <b>MITSUBISHI</b>	<b>Diamond Pro 2060u</b>																	
<b>Color Display Monitor</b>																		
<b>Model No. NSZ2107STTUW</b>																		
<b>100-120V~ / 220-240V~    50 / 60Hz    1.55A / 0.75A</b>																		
<b>Beschleunigungsspannung maximal 28.0kV. Vorsicht Hochspannung ! Die in diesem Gerät erzeugten Röntgenstrahlen sind durch die eigensichere Kathodenstrahlröhre ausreichend abgeschirmt.</b>																		
<b>This product complies with DHHS Rules 21 CFR Subchapter J applicable at date of manufacture.</b>																		
<b>This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.</b>																		
<b>Serial No.                      Manufactured</b>	<div></div>																	


46±0.5 mm


Label serial


 LISTED Info Tech Equip 45FN E211679	 UL <sup>®</sup> C	 TUV Rheinland Product Safety	 GS geprüfte Sicherheit	 TUV Rheinland Product Safety	 Energy Star	 CE	 TUV Rheinland Product Safety	 ERGONOMIE GEPRÜFT ERGONOMICS APPROVED
---	--	---	--	---	--	---	---	---


  
Tested To Comply  
With FCC Standards  
FOR HOME OR OFFICE USE


  
N623


  
LISTED  
Info Tech Equip  
45FN  
E211679


  
UL<sup>®</sup> C


  
TUV  
Rheinland  
Product Safety


  
GS  
geprüfte  
Sicherheit

  
TUV  
Rheinland  
Product Safety

  
Energy Star

  
CE

  
TUV  
Rheinland  
Product Safety

  
ERGONOMIE  
GEPRÜFT  
ERGONOMICS  
APPROVED

CHASSIS FAMILY : Z2107 (SS)

NEC-MITSUBISHI ELECTRIC VISUAL SYSTEMS CORPORATION  
4-13-23 SHIBAURA MINATO-KU, TOKYO, 108-0023, JAPAN

MADE IN JAPAN

VSP-C0459A

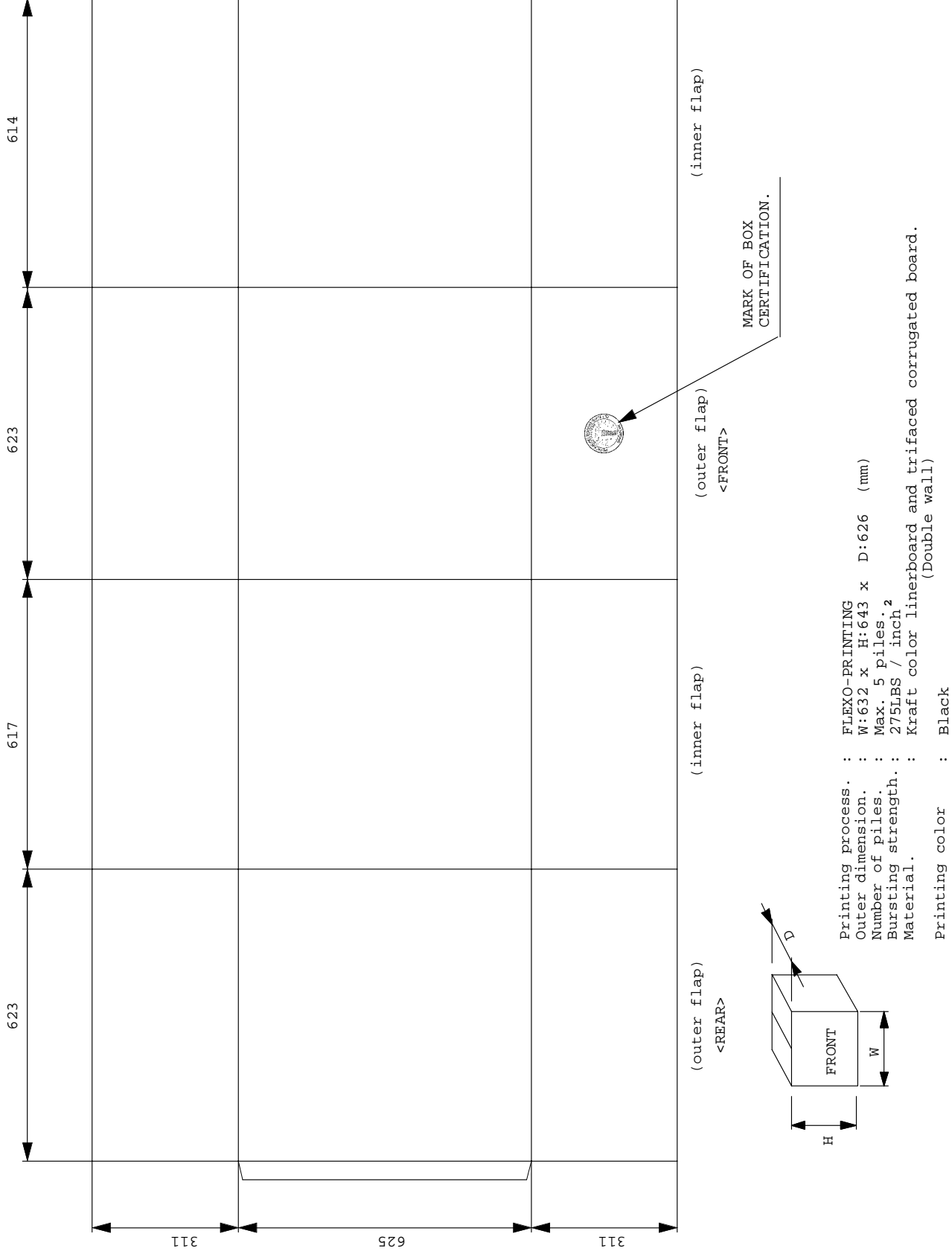


Fig.4 CARTON BOX

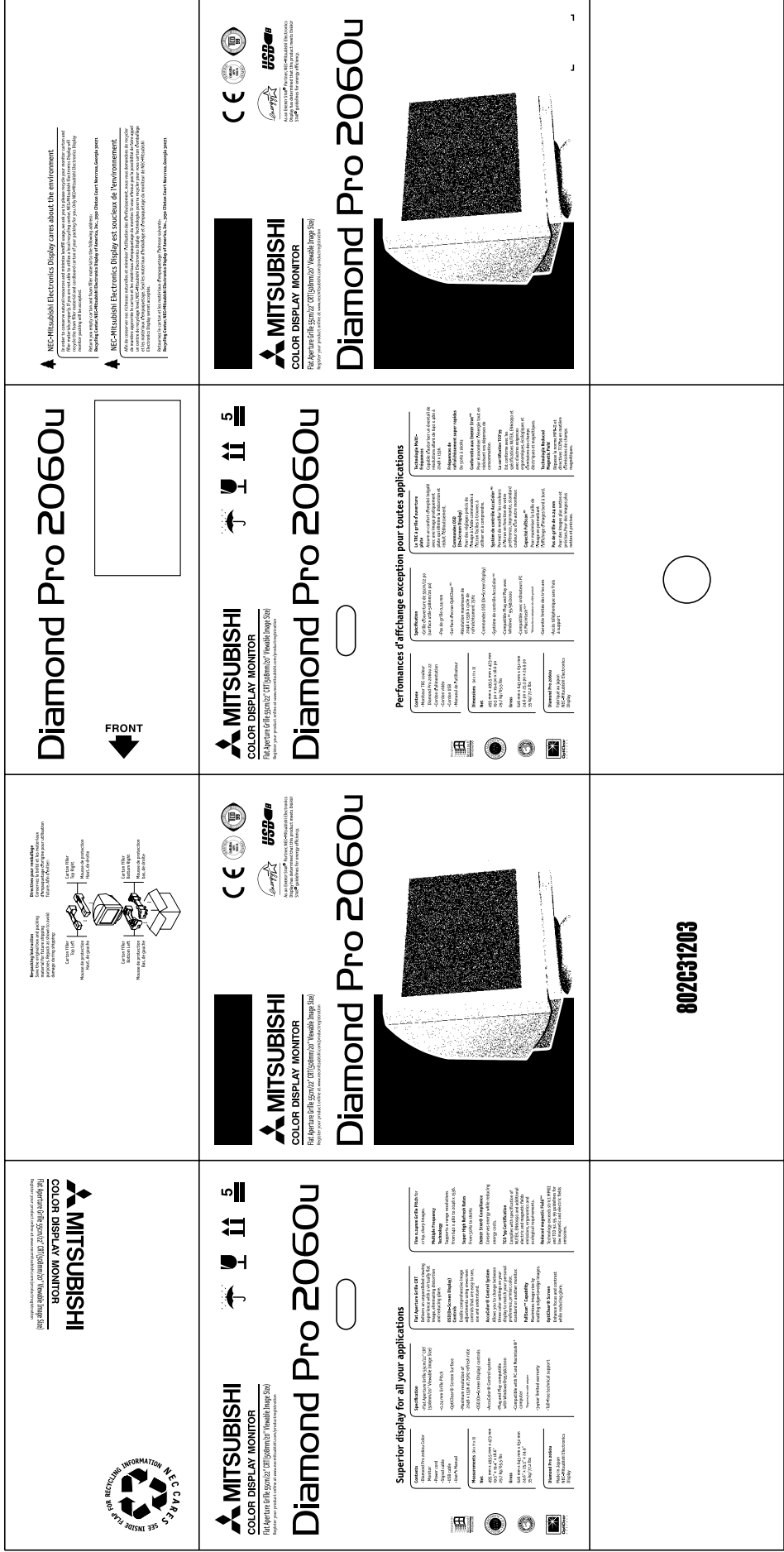


Fig.5-1 PRINTING SPECIFICATION OF CARTON BOX (North America)

VSP-C0459A





NOTE 1

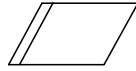
AC POWER CORD



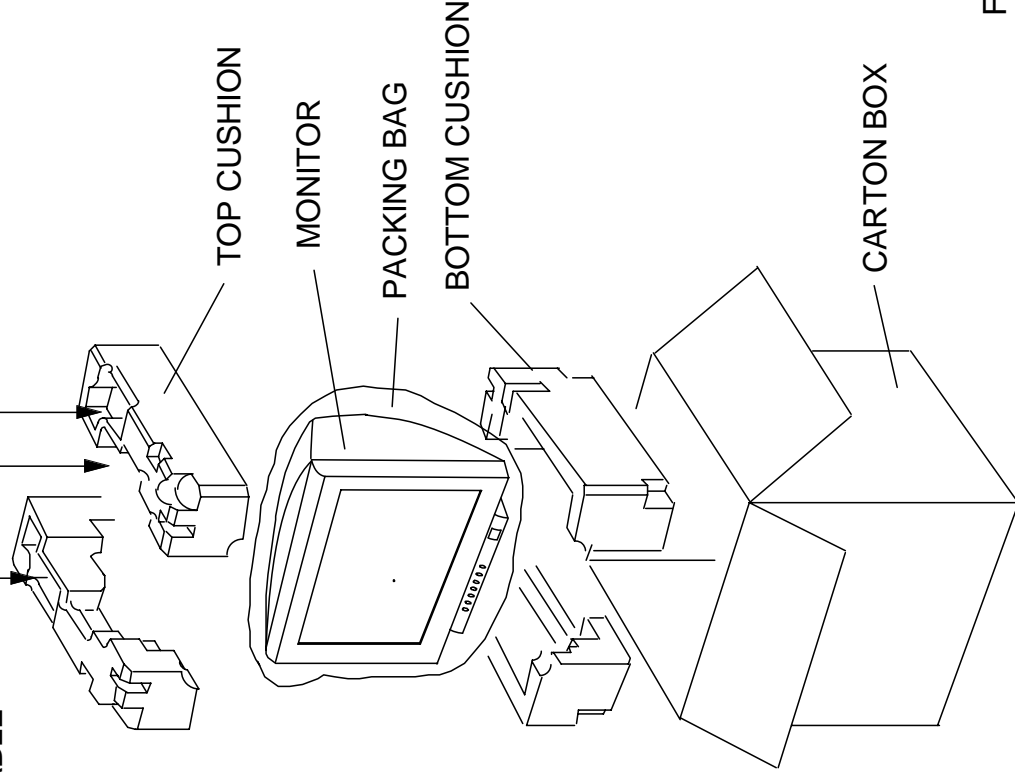
USB CABLE



USER'S GUIDE



SIGNAL CABLE



NOTE 1: AC POWER CORD  
(1) North America : see Fig.7-1  
(2) Europe : see Fig.7-2 & Fig.7-3  
(3) Australia : see Fig.7-4

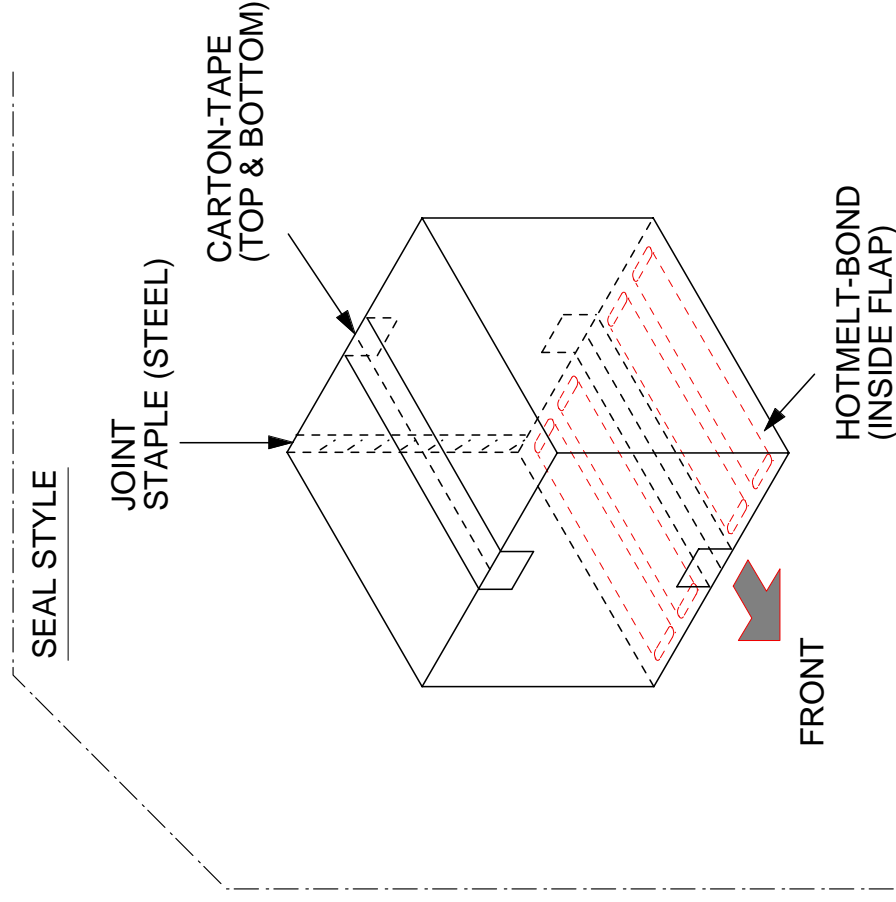


Fig.6 PACKING STYLE

VSP-C0459A

<SPECIFICATION>

1.CABLE:Cross - section Area-----AWG18X3C

2.JACKET:PVC

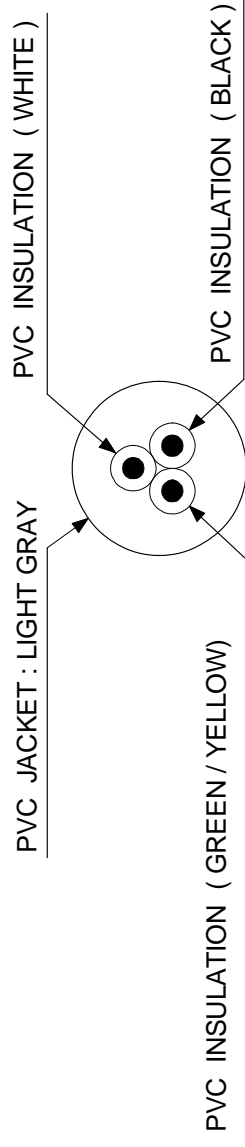
3.ABILITY

(1) VOLTAGE : AC 125V

(2) AMPERAGE : AC 10A

(3) TEMPERATURE : 60°C

4.REGULATORY APPROVALS:UL, CSA



CONSTRUCTION

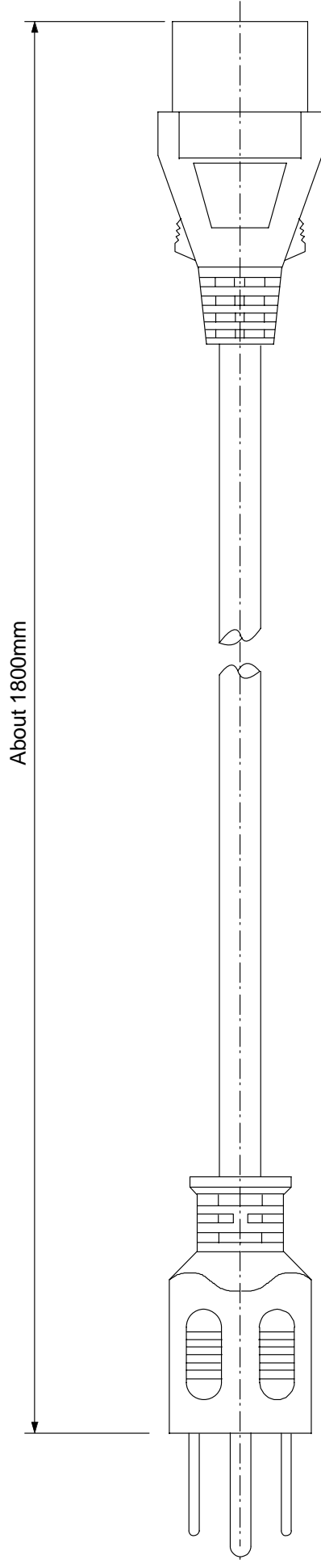


Fig. 7 - 1 AC POWER CORD (For North America )

VSP-C0459A



<SPECIFICATION>

1.CABLE : Cross - section Area----1.0mm<sup>2</sup> X3C

2.JACKET : PVC

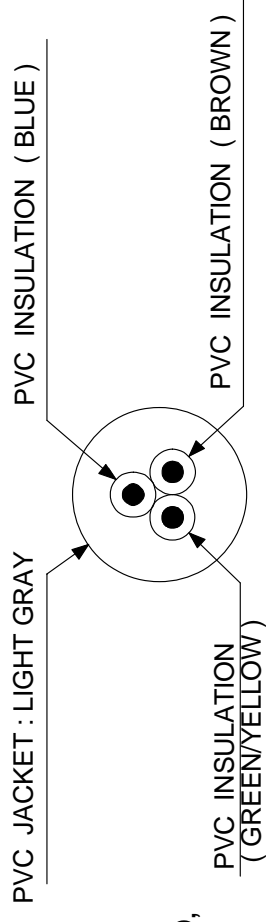
3.ABILITY

(1) VOLTAGE : AC 250V

(2) AMPERAGE : AC 10A

(3) TEMPERATURE : 70°C

4.REGULATORY APPROVALS:VDE,KEMA-MEUK,SEMKO,NEMKO,DEMKO,  
FIMKO,SEV,ÖVE,IEMMEQU,CEBEC,IEC227



CONSTRUCTION

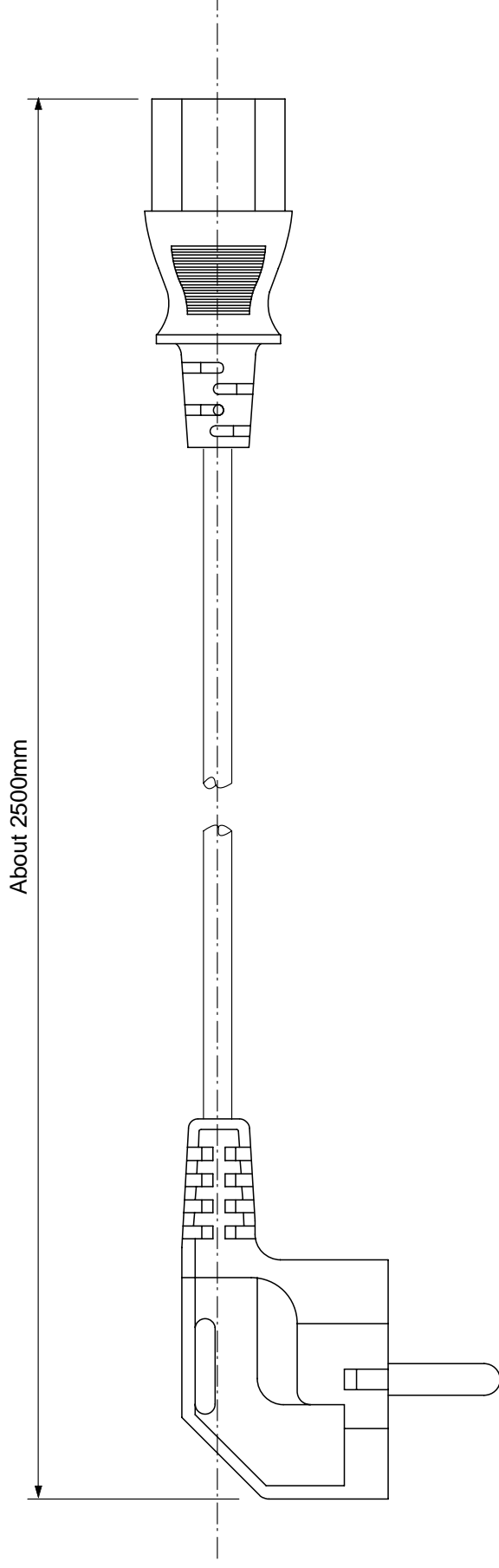


Fig. 7 - 2 AC POWER CORD ( For except U.K. )

VSP-C0459A

<SPECIFICATION>

1.CABLE : Cross - section Area---1.0mm<sup>2</sup> X3C

2.JACKET : PVC

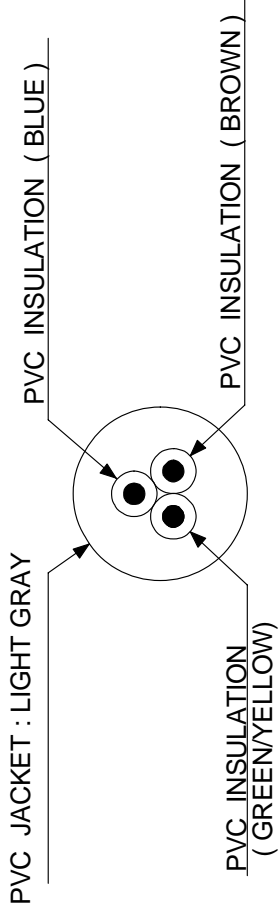
3.ABILITY

(1) VOLTAGE : AC 250V

(2) AMPERAGE : AC 10A

(3) TEMPERATURE : 60°C

4.REGULATORY APPROVALS : BS



CONSTRUCTION

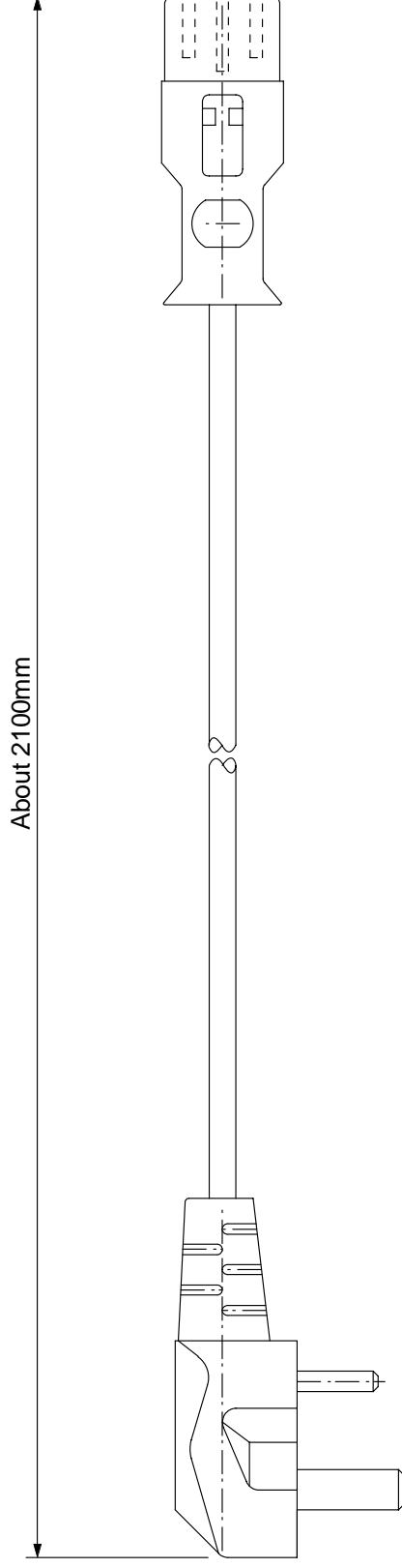


Fig. 7 - 3 AC POWER CORD ( For U. K. )

VSP-C0459A

<SPECIFICATION>

- 1.CABLE : Cross - section Area●●●1.0mm<sup>2</sup> X3C
- 2.JACKET : PVC (LIGHT GRAY)
- 3.ABILITY
  - (1)VOLTAGE : AC 250V
  - (2)AMPERAGE : AC10A
  - (3)TEMPERATURE : 60°C
- 4.REGULATORY APPROVALS :  
MEUK, SEMKO, NEMKO, DEMKO, FIMKO, SEV, ÖVE, IEMMEQU, CEBEC, IEC227.  
AS N/17199 (PLUG ), AS N/13351 ( CONNECTOR )

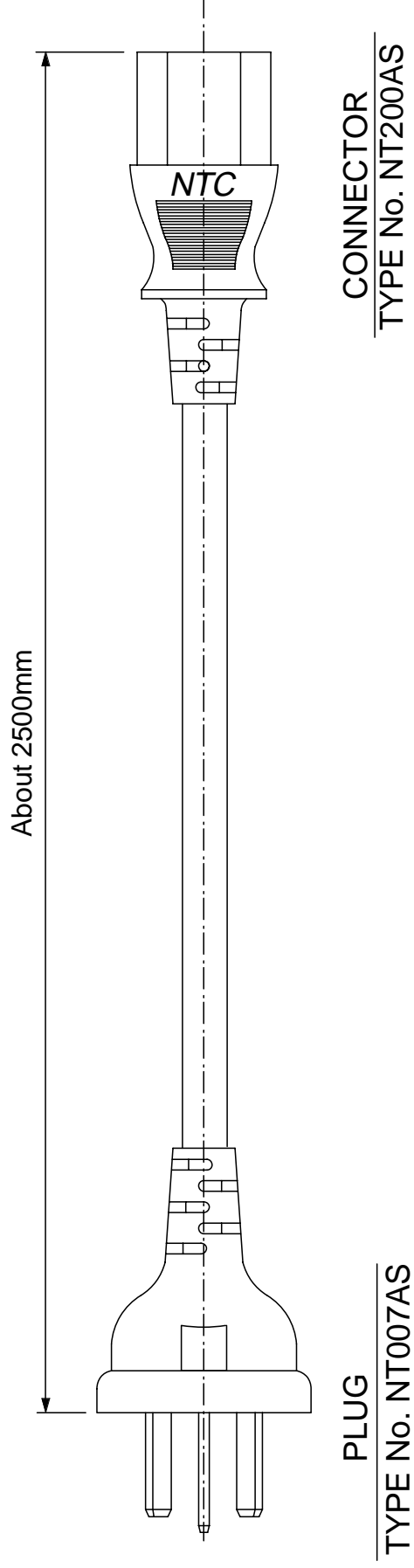


Fig. 7 - 4 AC POWER CORD (For Australia )

VSP-C0459A

# SIGNAL CABLE

## <SPECIFICATION>

1. JACKET:PVC (Color.....Light gray)
2. ABILITY
  - (1)VOLTAGE:30V
  - (2)TEMPERATURE:80 C°

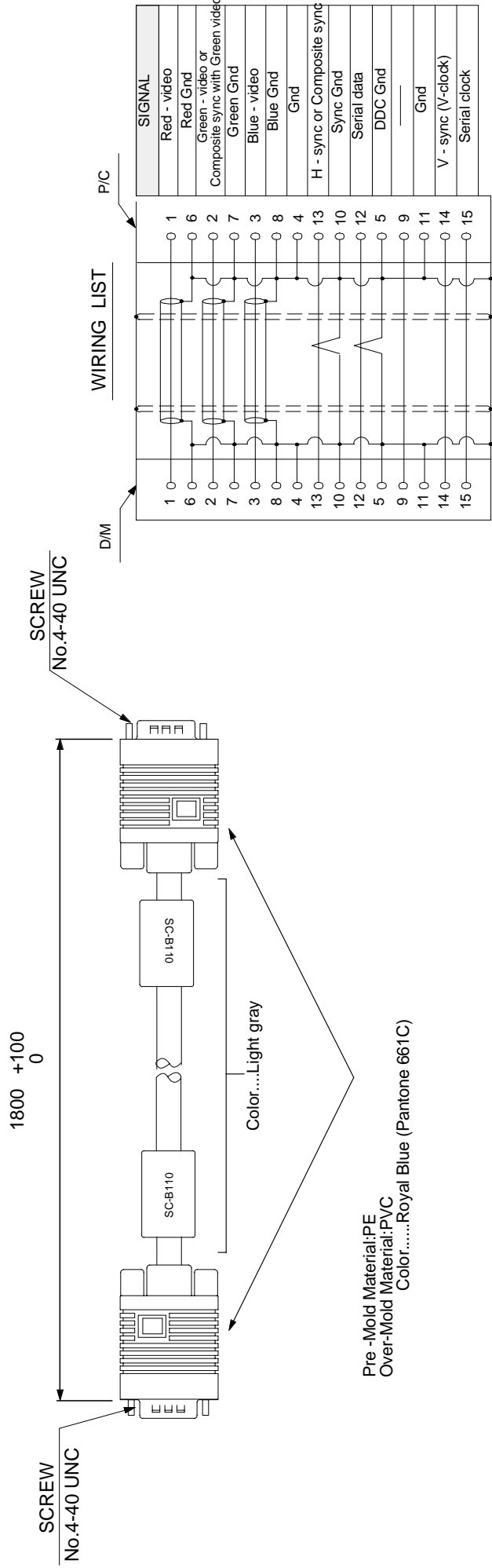
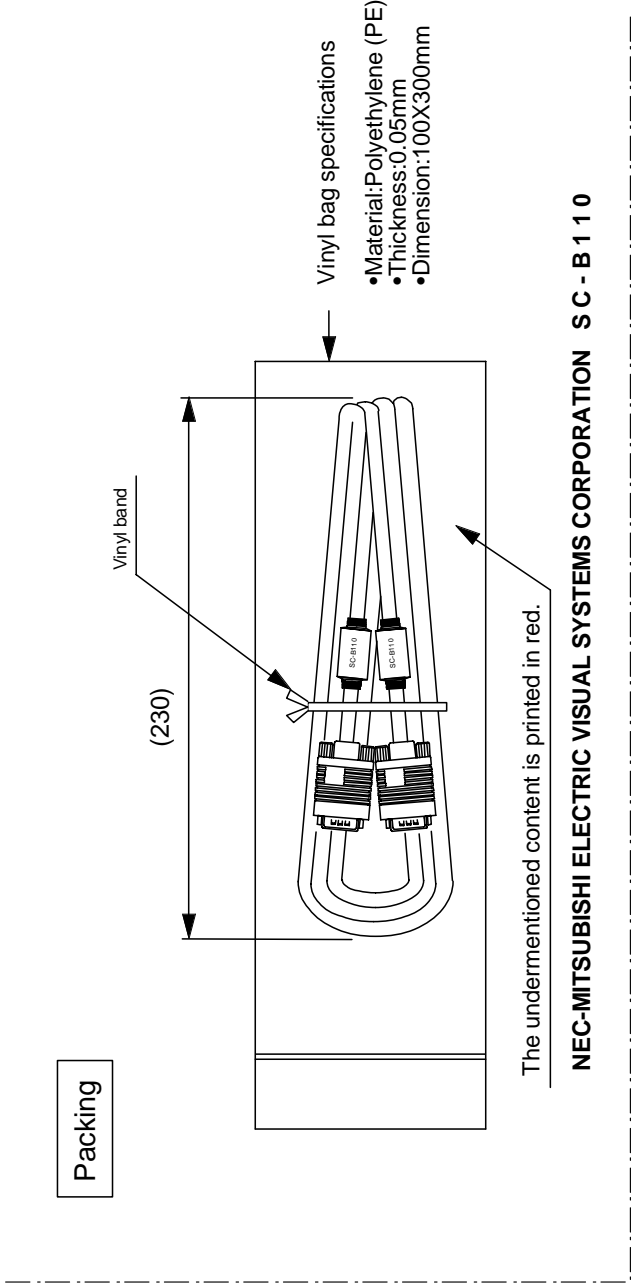


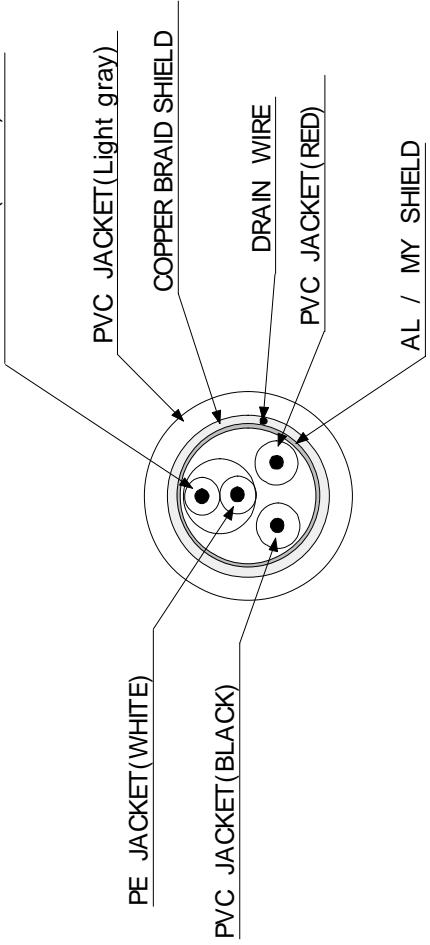
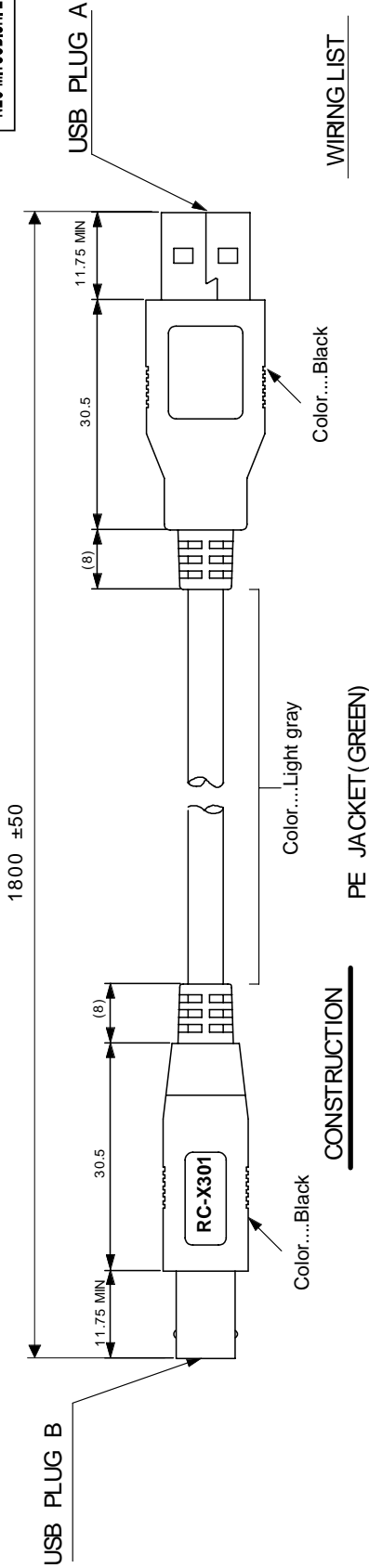
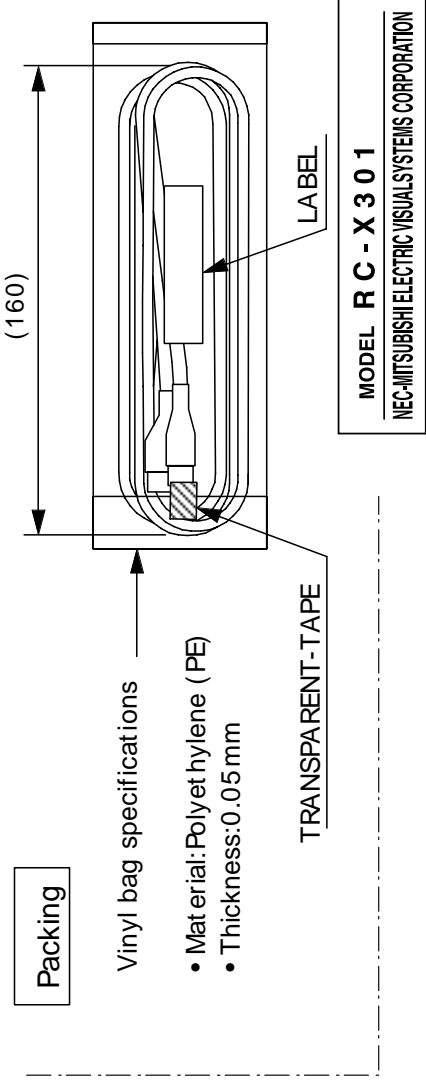
Fig. 8 SIGNAL CABLE

VSP-C0459A

**USB Cable (RC - X301)**

**<SPECIFICATION>**

- 1. JACKET: PVC
- 2. ABILITY
  - (1) VOLTAGE : 30V
  - (2) TEMPERATURE : 80°C



PLUG A	CABLE		PLUG B
CONTACT NO.	SIGNAL NAME	CABLE COLOR	CONTACT NO.
1	VCC	RED	1
2	- DATA	WHITE	2
3	+ DATA	GREEN	3
4	Ground	BLACK	4
SHIELD COVER A,B	SHIELD		SHIELD COVER A,B

Fig. 9 USB CABLE