FCC ID: EJE-WB0069 (IC: 337J-WB0069)

Attachment 3 FCC PART 15B TEST REPORT



FUJITSU GENERAL EMC LABORATORY LIMITED 1116, SUENAGA, TAKATSU-KU, KAWASAKI 213-8502 JAPAN TEL:044-861-7897 FAX:044-861-9890

Report No.: FG08-098EAL (1/10)

EMI Test report

CATEGORY: EN55022(2006) / CISPR 22(2005); Class B

AS/NZS CISPR22 (2006) FCC Part-15 (2007)

VCCI (2008)

EN301 489-17 V1.2.1, EN301 489-1 V1.4.1

MANUFACTURER: FUJITSU LIMITED

4-1-1, Kamikodanaka, Nakahara-ku, Kawasaki 211-8588 JAPAN

PRODUCT TYPE: Personal computer P8020

AC Adapter SED80N2-16.0 PXW1637N

Port Replicator FPCPR82 Wireless LAN 533AN_HMW Bluetooth module EYSMJCS

TEST SITE:

FUJITSU GENERAL EMC LABORATORY

1116, Suenaga, Takatsu-ku, Kawasaki 213-8502 JAPAN

DATE TESTED:

July 25, 2008

60% 23°C

TESTED BY:

Hiroyuki Aikawa

EUT conforms to the above mentioned all regulations.

APPROVED BY :

DATE: August 4, 2008

Hiroyuki Shimanoe, President

FUJITSU GENERAL EMC LABORATORY LIMITED

1116, Suenaga, Takatsu-ku, Kawasaki 213-8502 JAPAN TEL: (044)861-7897 FAX: (044)861-9890

CLIENT: Global Business Division, FUJITSU LIMITED

4-1-1, Kamikodanaka, Nakahara-ku, Kawasaki 211-8588 JAPAN

* The description of the EUT and the system configuration in this report are provided by the client.







Accredited by NVLAP. Authorized by TÜV SÜD PS.. Appointed by TÜV Rheinland Japan Registered on VCCI.

1. Description of EUT

The EUT: P8020 is personal computer using CPU; Core2 Duo SU9400 1.2 GHz microprocessor. The EUT has a 12.1 inch WXGA LCD, a system disk (160 GB×1). The EUT has the interface for DVI⁽⁹⁾, RGB, Mic-in⁽¹⁾, Phone-out⁽¹⁾, Audio⁽⁸⁾, LAN⁽⁶⁾, TEL⁽⁵⁾, IEEE1394⁽³⁾, USB×7⁽²⁾, W⁽¹⁾, SD card slot, PC card slot, Bluetooth and wireless LAN.

Internal clock frequency: 32.768 kHz, 4.000 MHz, 12.000 MHz, 14.318 MHz, 24.576MHz, 25.000MHz,

30.000 MHz, 33.300 MHz, 48.000 MHz, 96.000 MHz, 100.000 MHz, 200.000

MHz

Input power: AC 100 - 230V, 50 / 60 Hz, Single-phase 2 wires

The EUT is intended to use generally in the residential / domestic area or commercial and light industrial area; category class B.

1. 1 Test system configuration

The measurement was performed using P8020 with internal wireless LAN module and Bluetooth module, external Port Replicator; FPCPR82 and all related equipments as the maximum personal computer system shown in figure-1.

The EUT was selected from the pre-production line.

1. 2 Operating condition

The following EUT and dependent devices were tested using "EMC.exe", "Blue test" and "CRTU" program under continuous operating condition to obtain maximum emission.

① PC-1

LCD-1: Displaying "H" character on screen. (Maximum contrast/ Luminescence)

(Display resolution 1280×800 / Refresh rate 60Hz)

HDD-1: Reading/writing the test data.

LAN: Continuous transmission and receiving of the ping command. (1000 M Max)

TEL: Continuous transmission and receiving of the ping command.

Down loading the test file.

DVD: Play the test disk.

Wireless LAN: Continuous transmission of the RF signal.
Bluetooth Continuous transmission of the RF signal.
CAMERA: Monitoring the picture of web camera

② PC memory card: Read/write the test data.③ SD memory card: Read/write the test data.

USB2.0 Memory: Read/write the test data. (480 M max)
 IEEE1394: Read/write the test data. (400 M max)

6 LCD-2: Display "H" character on screen. (Maximum contrast / Luminescence)

7 Headset: Connecting only.
8 USB mouse: Connecting only.

2. EMI test results summary

Applied standard: EN55022 (2006)

Limit value: Class B

The test samples met the class B limit of EN55022 (2006)/ CISPR22(2005) and applicable below regulations as shown the following highest 6 points of each emission profiles.

EN301 489-1 V1.4.1 for EN301 489-17

Australia, New Zealand: AS/NZS CISPR22 (2006)

U.S.A.: FCC Part-15(2007), Canada: CAN/CSA-CEI/IEC CISPR22-02

Japan: VCCI (2008), Taiwan: CSN 13438(2006)

The test result is effective in only for the EUT.

2. 1 Radiated emission (30 MHz to 1,000 MHz): Measured at 10 m distance

< AC 230 V / 50 Hz single phase >

Freq.	pol.	Noise level	Class B limit	Margin
(MHz)	_	(QP: $dB \mu V/m$)	$(QP: dB \mu V/m)$	(dB)
30.01	Vert	28.2	30.0	1.8
31.49	Vert	27.3	30.0	2.7
240.00	Horiz	35.8	37.0	1.2
499.19	Vert	32.5	37.0	4.5
552.97	Vert	33.3	37.0	3.7
983.26	Horiz	34.5	37.0	2.5

< AC 120 V / 60 Hz single phase >

Freq.	pol.	Noise level	Class B limit	Margin
(MHz)	•	(QP: $dB \mu V/m$)	(QP: $dB \mu V/m$)	(dB)
30.01	\mathbf{Vert}	28.2	30.0	1.8
31.49	Vert	27.3	30.0	2.7
240.00	Horiz	35.4	37.0	1.6
499.19	\mathbf{Vert}	32.5	37.0	4.5
552.97	\mathbf{Vert}	32.8	37.0	4.2
983.26	Horiz	34.4	37.0	2.6

- · Limit value; CISPR 22(2005) and applied for FCC Part15(2007)
- Measurement uncertainty: ± 3.3 dB (K=2, 95 %)

2. 2 Over 1 GHz RF Radiated emission (1 GHz to 6 GHz): Measured at 3 m distance

Freq. (GHz)	Pol	Noise level $(dB \mu V/m)$	Class B limit (dB μ V/m)		Margin (dB to AV)
		Peak	Peak	ΑV	,
1.1651	Vert	47.1	74.0	54.0	6.9
1.2480	Vert	50.8	74.0	54.0	3.2
1.3314	\mathbf{Vert}	46.2	74.0	54.0	7.8
1.4147	Horiz	45.6	74.0	54.0	8.4
1.6643	Vert	48.5	74.0	54.0	5.5
2.4969	Vert	50.5	74.0	54.0	3.5

· Limit value; FCC Part15(2007)

2. 3 AC power line conducted emission (150 kHz to 30 MHz)

2.3.1	AC.	Ada	apte	r: 2	EL	וטאי	NZ-1	U.d
- 40	000	T7 /		TT_	- ·	_1_	1	

~ Z3U V / 3U I	az singie p	mase -					
Freq.	Line#	Noise	level	Class E	3 limit	Ma	rgin
(MHz)		$(dB\mu$. V)	$(dB\mu$	2 V)	(dB)
, ,		QΡ	ΑV	QP	ΑV	QP	ΑV
0.200	#1	52.1	40.3	63.6	53.6	11.5	13.3
0.200	# 2	53.0	41.2	63.6	53.6	10.6	12.4
0.263	#1	48.8	37.2	61.3	51.3	12.5	14.1
0.263	# 2	49.4	38.1	61.3	51.3	11.9	13.2
0.500	# 2	41.7	28.4	56.0	46.0	14.3	17.6
0.524	# 1	42.2	28.7	56.0	46.0	13.8	17.3

<ac< th=""><th>120</th><th>V/</th><th>60</th><th>Hz</th><th>single</th><th>phase ></th></ac<>	120	V/	60	Hz	single	phase >
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Freq. (MHz)	Line#	Noise (dB μ		Class E		Ma: (dB	rgin)
, ,		QΡ	AV	QP	AV	QP	AV
0.200	#1	50.2	35.2	63.6	53.6	13.4	18.4
0.200	# 2	51.2	36.6	63.6	53.6	12.4	17.0
0.394	# 1	42.8	30.8	58.0	48.0	15.2	17.2
0.394	# 2	43.4	31.3	58.0	48.0	14.6	16.7
0.503	# 2	39.3	25.0	56.0	46.0	16.7	21.0
0.528	# 1	39.5	26.4	56.0	46.0	16.5	19.6

<AC 100 V / 50 Hz single phase >

Freq.	Line#	Noise level	Class B limit		Margin
(MHz)		$(dB \mu V)$	(dB	μ V)	(dB to AV)
		QP	QP	ÁV	•
0.200	# 1	49.4	63.6	53.6	4.2
0.200	# 2	50.0	63.6	53.6	3.6
0.266	# 2	44.6	61.2	51.2	6.6
0.329	# 2	43.0	59.5	49.5	6.5
0.460	# 2	40.5	56.7	46.7	6.2
0.477	# 2	40.4	56.4	46.4	6.0

- Limit value ; CISPR 22(2005)
 Measurement uncertainty : ± 2.5 dB (K=2, 95 %)

2.3.2 AC Adapter: PXW1637N

< AC 230 V / 50 Hz single phase >

Freq.	Line#	Noise level	Class	B limit	Margin (dB to AV)	
(MHz)		$(dB \mu V)$	(dB	μV)		
		QΡ	QΡ	ΑV		
0.199	#2	44.6	63.7	53.7	7.9	
0.788	# 1	40.4	56.0	46.0	5.6	
0.788	# 2	40.2	56.0	46.0	5.8	
3.036	# 1	38.9	56.0	46.0	7.1	
3.036	# 2	39.3	56.0	46.0	6.7	
3.144	# 2	39.7	56.0	46.0	6.3	

< AC 120 V / 60 Hz single phase >

Freq. (MHz)	Line#	Noise level $(dB \mu V)$		B limit	Margin (dB to AV)
		QP	QP	ΑV	,
0.240	# 1	45.0	62.1	52.1	7.1
0.240	# 2	45.2	62 .1	52.1	6.9
0.348	# 1	39.7	59.0	49.0	9.3
0.608	# 1	38.4	56.0	46.0	7.6
0.608	# 2	37.6	56.0	46.0	8.4
1.052	#1	37.4	56.0	46.0	8.6

< AC 100	V / 50	Hz single	phase >	>
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Line#	Noise level			Margin (dB to AV)
	QP	Q P	ΑV	(ub w Av)
# 1	45.7	62.5	52.5	6.8
# 2	45.8	62.5	52.5	6.7
# 1	37.8	56.0	46.0	8.2
# 2	37.4	56.0	46.0	8.6
# 1	38.3	56.0	46.0	7.7
# 2	39.0	56.0	46.0	7.0
	# 1 # 2 # 1 # 2 # 1	$\begin{array}{ccc} (dB\mu\text{V}) \\ & \text{Q P} \\ \#1 & 45.7 \\ \#2 & 45.8 \\ \#1 & 37.8 \\ \#2 & 37.4 \\ \#1 & 38.3 \\ \end{array}$	$\begin{array}{cccc} (dB\muV) & (dB\\ QP & QP\\ \#1 & 45.7 & 62.5\\ \#2 & 45.8 & 62.5\\ \#1 & 37.8 & 56.0\\ \#2 & 37.4 & 56.0\\ \#1 & 38.3 & 56.0 \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

· Limit value; CISPR 22(2005)

• Measurement uncertainty: ± 2.5 dB (K=2, 95 %)

2. 4 Telecommunication line conducted emission (150 kHz to 30 MHz)

Freq.	Noise level	Class	B limit	Margin
(MHz)	$(dB \mu V)$	$(dB\mu$	V)	(dB to AV)
, ,	QP	QΡ	ΑV	
1.503	47.7	74.0	64.0	16.3
2.049	50.0	74.0	64.0	14.0
3.541	51.6	74.0	64.0	12.4
3.677	50.4	74.0	64.0	13.6
3.747	50.1	74.0	64.0	13.9
3.814	51 .1	74.0	64.0	12.9

• Limit value ; CISPR 22(2005)

< LAN port >				
Freq.	Noise level	Class	B limit	Margin
(MHz)	$(dB \mu A)$	$(dB\mu$	A)	(dB to AV)
, ,	QP	QΡ	AV	
1.451	15.0	30.0	20.0	5.0
4.096	16.4	30.0	20.0	3.6
4.352	15.1	30.0	20.0	4.9
4.647	15.7	30.0	20.0	4.3
4.756	16.8	30.0	20.0	3.2

30.0

20.0

4.1

15.9

· Limit value; CISPR 22(2005)

3. EUT modification under the test

None.

5.311

4. Measurement procedure and test equipment

The measurement was performed without deviation from CISPR22 (2005).

4. 1 Radiated emission

4.1.1 Radiated emission (30MHz~1,000MHz)

The EUT was set on the 80 cm height non-reflective desk (W: 150 cm×D: 100 cm) placed on the turntable in the 10 m RF semi-anechoic chamber.

The HUB, TEL, PC-2 and PC-3 were placed at outside of the chamber to make usual install condition at the different place. The maximum noise level in the frequency range from 30 MHz to 1,000 MHz were measured by 10 m method with scanning the antenna height from 1 m to 4 m above the ground plane and rotating the EUT through 360 degrees for both horizontal and vertical polarization.

Preliminary measurement using spectrum analyzer peak detection was performed to arrange the minimum margin spectrum. The settings of the interface cables and the mouse were adjusted to obtain maximum level at the minimum margin spectrum. The final measurement was performed using the RFI receiver (CISPR Quasi-peak, 120 kHz band width) and calibrated broadband antennas or dipole antennas of the main spectrums that was obtained by the preliminary measurement.

Test equipment	Manufacturer	Type	S/N	Cal. Date	Due. Date
Bi Log antenna	Schwarzbeck	VULB9160	3118	2007.12.03	2008.12.03
Dipole antenna	Schwarzbeck	VHA9103	VHA91031573	2007.07.25	2009.07.25
Dipole antenna	Schwarzbeck	UHA9105	UHA91052119	2007.07.25	2009.07.25
Field strength meter	Rohde & Schwarz	ESCS30	849650/001	2008.06.04	2009.06.04
Spectrum analyzer	HP	85422E	3746A00242	2008.05.27	2009.05.27
RF switch	Anritsu	MP59B	M87079	2008.05.07	2009.05.07
RF cable		CF013		2008.05.07	2009.05.07
2nd semi-anechoic cha	amber	Riken eletech		2008.01.04	2010.01.04
EMI test program	FGE	Version 1.3			

4.1.2 Over 1 GHz radiated emission (1 GHz~8 GHz)

The EUT was set on the 80 cm height non-reflective desk (W: 150 cm×D: 100 cm) on the turntable. The radiated emission measurement from 1 GHz to 6 GHz: Operating rate 1.2 GHz was performed using the spectrum analyzer (Peak detection, 1MHz band width) and the horn antenna that was positioned at 3 m from the EUT for class B. The measurement was performed with rotating the EUT through 360 degrees and fixing the antenna height to the 1 m for both horizontal and vertical polarization.

The measurement was performed with RF signal "off" mode of the wireless LAN and Bluetooth.

Test equipment	Manufacturer	Type	S/N	Cal. Date	Due. Date
Horn antenna	Schwarzbeck	BBHA9120D	414	2007.02.23	2009.02.23
Spectrum analyzer	Advantest	R3371A	75060396	2008.05.27	2009.05.27
Pre amplifier	HP	8449B	3008A01110	2007.03.24	2009.03.24

4. 2 AC power line conducted emission

The conducted emission measurement was performed in the shielded room. The EUT was set on the 80 cm height wooden desk with using the $50\,\Omega/50\,\mu$ H artificial mains network: AMN and operated by AC 230 V/ 50 Hz, AC 120 V/ 60 Hz and AC 100 V/ 50 Hz. Preliminary measurement using spectrum analyzer peak detection was performed in the frequency range from 150 kHz to 30 MHz to arrange the minimum margin spectrum. The setting of the cables was adjusted to obtain maximum level at the minimum margin spectrum. The final measurement was performed using the RFI receiver (CISPR Quasi-peak, 9 kHz band width) and recorded the maximum value in the monitored interval of the main spectrum that was obtained by the preliminary measurement.

Test equipment	Manufacturer	Type	S/N	Cal. Date	Due. Date
AMN	Kyoritsu	KNW-407	8-823-18	2007.09.07	2008.09.07
Field strength meter	Rohde & Schwarz	ESCS30	849650/003	2008.06.03	2009.06.03
Spectrum analyzer	HP	85422E	3746A00240	2008.05.27	2009.05.27
RF switch	Rohde & Schwarz	PSU	848290/005	2008.05.07	2009.05.07
Band pass filter	Advantest	TR14202	03560025	2008.05.07	2009.05.07
Pulse limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2008.05.07	2009.05.07
RF cable		CF009		2008.05.07	2009.05.07
EMI test program	FGE	Version 1.3			

4.3 Telecommunication line conducted emission

The conducted emission measurement was performed in the shielded room. The EUT was set on the 40 cm height wooden desk with using the impedance stabilization network: ISN(LCL:80 dB) for telecom port and the current probe for LAN port and operated by AC 230 V/ 50 Hz. Preliminary measurement using spectrum analyzer peak detection was performed in the frequency range from 150 kHz to 30 MHz to arrange the minimum margin spectrum. The setting of the cables was adjusted to obtain maximum level at the minimum margin spectrum. The final measurement was performed using the RFI receiver (CISPR Quasi-peak, 9 kHz band width) and recorded the maximum value in the monitored interval of the main spectrum that was obtained by the preliminary measurement.

Test equipment	Manufacturer	Type	S/N	Cal. Date	Due. Date
ISN	Kyoritsu	KNW-2202	8S-2945-2	2007.09.03	2008.09.03
Current probe	Rohde & Schwarz	EZ-17	100007	2007.03.06	2009.03.06
Field strength meter	Rohde & Schwarz	ESCS30	849650/003	2008.06.03	2009.06.03
Spectrum analyzer	HP	85422E	3746A00240	2008.05.27	2009.05.27
RF switch	Rohde & Schwarz	PSU	848290/005	2008.05.07	2009.05.07
Band pass filter	Advantest	TR14202	03560025	2008.05.07	2009.05.07
Pulse limiter	Rohde & Schwarz	ESH3-Z2	0357.8810.54	2008.05.07	2009.05.07
RF cable		CF009		2008.05.07	2009.05.07
EMI test program	FGE	Version 1.3			

5. Test site and traceability

The FUJITSU GENERAL EMC LABORATORY performs the test for VCCI / EN / CISPR regulation and Fujitsu / Fujitsu General internal regulations. The test procedures and test facilities are comply with international standard. The laboratory is filed on VCCI (Japan), accredited from NVLAP (U.S.A.), authorized from TÜV SÜD PS (Germany) and appointed from TÜV Rheinland (Germany).

VCCI: 1st semi-anechoic chamber(R-753/C-776), 1st shielded room(C-777)

Large shielded room(C-778)

2nd semi-anechoic chamber(R-1460/C-1547), 2nd shielded room(C-1548)

3rd shielded room(C-1549)

NVLAP: 1998.12.01 Accredited: Lab code 200373-0
TÜV SÜD PS: 1999.01.29 Authorized
TÜV Rheinland Japan: 2005.08.25 Appointed

The measuring equipments were used in the laboratory and test data are traceable to the national or international standard. Each equipment is maintain by periodical calibration and by daily check as a total measurement system to keep those accuracy.

EUT 1 230V/50Hz **POR** AC-1 PC-1 Power in Power in 120V/60Hz 100V/50Hz (8) LCD-2 Audio HDD-1 9 **WLAN** Phone out AC-5 DVI 1) HS Mic. in BT100V/50Hz RGB **DDR** 2 **BATT** USB USB-M1 LCD-1 I/O Modem Connection 10 SD USB-3 USB SDM Card Slot USB USB-4 USB USB-5 PCM PC Card Slot USB USB-M2 4 (3) HDD-2 1394 USB USB TEL LAN **6** ·•--AC-4 (5) **6**) USB-1 USB-2 0 @ TEL HUB 100V/50Hz B 2 100V/50Hz **23** AC-3 PC-3 PC-2 AC-2 100V/50Hz 100V/50Hz

Figure-1 System configuration and cables

: Ferrite core

		TITIO	
M	ดเล	EUT	

Code	Name	Туре	S/N	Product
PC-1	Personal computer	P8020	Pre-production sample	Fujitsu
Related E	UT		_	
POR	Port Replicator	FPCPR82		Fujitsu
AC-1	AC adapter	SED80N2-16.0		Fujitsu
	AC adapter	PXW1637N		Fujitsu

Included (device; PC-1						
Code	Name		Туре		S/N		Product
HDD-1	160GB HDD		MHZ2160BH		K620T8	52636V	Fujitsu
WLAN	Wireless LAN	1	533AN_HWN				Intel
BT	Bluetooth		EYSMJCS 2048 MB				TAIYO YUDEN Fujitsu
DDR BATT	DDR Memory 8700mA/h 7.5		FPCBP195				Fujitsu Fujitsu
LCD-1	12.1"WXGA	2 V	LTD121EWP	F			TMD
Modem	Telephone me	odem	MDC1.5 mode				Agere
Assisted 6	equipment						
Code	Name		Туре		S/N		Product
LCD-2	LCD display		WBZA-H		YE1C01		FSC
HS	LCD display Head set		P19-1 AP-210Pro		YEGA2	17490	FSC FSC
HUB	Switching Hul	b	ETG-SH-8		VD7000	010513N	I·O DATA
PC-2	Personal comp		FMV			0100101	Fujitsu
PC-3	Personal comp		FMV .				Fujitsu
AC-2	AC adapter		FMV-AC317				Fujitsu
AC-3	AC adapter		FMV-AC322				Fujitsu
AC-4	AC adapter		ACTN-71T			200040	Sunfone
AC-5 TEL	AC adapter Tele line emul	aton	0218B1260 TEL101		A307300	JU2648	LI SHIN ASCII
HDD-2	Herd disk driv		Stragebird 40	n GB	3732650	036	FSC
USB-M1	USB Memory		256MB	3 42		,000	I·O DATA
USB-M2	USB Memory		256MB				I∙O DATA
USB-1	USB Mouse		M-UAE96		LZ6500		FSC
USB-2	USB Mouse		M-BT69e		HCA52		FSC
USB-3 USB-4	USB Mouse USB Mouse		M-BT69e M-BT69e		HCA521 HCA521		FSC FSC
USB-5	USB Mouse		M-B169e M-BT69e		HCA52		FSC
PCM	PC memory ca	ırd	20 MB			101000	SunDisk
SDM	SD card		128MB				Panasonic
	SLD: Shielded						
No. I/O I	Connector MC	: Meta Nam		_	oint contact Length		20
_	ne-out / Mic-in		lset cable	Туре ———	2.2m	Cable typ NSLD, M	
Ž USB			cable		1.0m	SLD, NN	
③ 1394		1394	cable		1.0m	SLD, NM	
4 ——	_		ower cable		2.0m	2P-NSLI	
① Phon ② USB ③ 1394 ④ —— ⑤ TEL ⑥ LAN ⑦ Powe			uler cable		20.0m	SLD, MO	
6 LAN			cable daptor cable		20.0m 1.8m	SLD, MO NSLD, N	TMC
Pow			daptor cable		1.2m		MC with fixed core
			o cable		2.0m		with fixed core
			cable		2.0m	SLD, MO	with fixed core
W USE			mouse cable		1.9m	SLD, MO	2
			mouse cable		1.9m	SLD, MO	
(D) USE(B) USE			cable cable		1.0m 1.0m	SLD, NM SLD, NM	
(A) ——	_		ower cable		2.0m	2P-NSLI	
<u> </u>	_		daptor cable		1.8m		MC with fixed core
<u>®</u> ——	_	AC p	ower cable		2.0m	2P-NSLI)
⊕	_		ower cable		2.0m	2P-NSLI	
(B) ——			cable		1.0m	SLD, MO	
@ ——	_		daptor cable ower cable		1.8m 2.0m	NSLD, N 2P-NSLI	
i	_		ower cable		2.0m	3P-NSLI	
<u> </u>	_	AC p	ower cable		2.0m	2P-NSLI)
◎		AC a	daptor cable		1.8m	NSLD, N	IMC
			ower cable		2.0m	3P-NSLI	
8 Audi DVI USE			mouse cable mouse cable		1.9m 1.9m	SLD, MO	
€ COD	•	COD	mouse cable		1.7111	DLD, MC	