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1. Product Introduction

KMY8202F self-service healthcheck Kiosk is developed and manufactured by SZ KMY Co., Ltd. according to different size of monitor with touchscreen. Basic hardware configuration with the touch screen applications can be widely used in Supermarket, Company, Buildings, etc.

With your fingers gently touch the display you can search the information including the picture, text, audio and video, and thus feel a brand-new service manner. It can be used as the Internet terminal after connect the wifi router and you can search all the information through the network. Through the blood pressure module, pulse oximeter, load cell, users can weight their weight, know their blood pressure and pulse data, thus they can finish the self- service health check for free.

1.1 Operating Environment

Operating Temperature	0 -40
Operating condition	40%-80% non condense
Input Voltage	AC120±10 60HZ
Power consumption:	≤350W
Operating place	Indoor, pay attention on waterproof for outdoor
Placement	Put up right on the ground

1.2 Size for machine and packing dimension for wooden case

Size	775mm(L)×845mm(W)×1660mm(H)
Packing Dimension	920mm(L)×960mm(W)×1850mm(H)

1.3 Safety Regulations

The earth power cable of this product has to be well earthed. The socket on the power box is only for the devices of this product, can't connect to other devices.

During the operating, it appears any phenomenon of abnormity, such as smoke, irregular smell or noise, etc, users should turn off the power immediately and contact with professional maintenance for service to prevent damage and unnecessary loss.

Don't drop the liquid and other metal parts into the interior of the machine. If the above situation happens, cut off the power immediately and inform the professional engineer for the maintenance.

If this machine keeps power off for long time, please pull out the power cord. Make sure your hands are dry when pull off power cord to avoid electrical shock.

Non-professionals do not disassemble, reform, and maintain this machine, otherwise bear your own consequence.

2. Technical Index

2.1 OS Software

Microsoft Windows 7 Professional English Version 64 bit   professional EMB)

2.2 Speaker

S/N	Part Name	Specification
1	Output Power	2×5W
2	Distortion degree	≤0.1 1KHZ 2×1W
3	Signal to Noise Ratio(SNR)	≥85dB
4	Frequency response	20 20KHZ

2.3 Monitor   19 inch/10.4inch

2.3.1 Monitor   19 inch

S/N	Part Name	Specification
1	Viewing area	408.24mm H ×255.15mm V
2	Pixel Pitch	0.2835mm×0.2835mm
3	Interface	VGA
4	Brightness(Max)	200 cd/
5	Viewing angle(H/V, CR 10)	90°/65°
6	Best Resolution	1440×900/60HZ
7	Operating Temperature	0 40
8	Operating Humidity	10 85 RH, no condensing
9	Power supply voltage	AC100-240V
10	Power consumption	≤45W

11	Atmospheric pressure	86kpa 104kpa
12	Model	19 16:10 CCFL CCFL Backlight Color LCD monitor
13	CCFLlife expectancy	50000H 50%brightness break up
14	Respond time	5ms

2.3.2 Monitor 10.4 inch

S/N	Part Name	Specification
1	Viewing area	211.2mm(W)×158.4mm(H)
2	Pixel Pitch	0.264mm×0.264mm
3	Interface	VGA DVI HDMI
4	Brightness(Max)	300cd/
5	Viewing angle	125(H) /135(V)
6	Best Resolution	800×600
7	Operating Temperature	0 40
8	Operating Humidity	10 85 RH, no condensing
9	Power supply voltage	DC12V 2A 50-60HZ
10	Power consumption	≤25W
11	Atmospheric pressure	86kpa 104kpa
12	Model	TFT-LCD 4:3
13	Respond time	30ms

■2.4 10.4 inch touchscreen

S/N	Part Name	Specification
1	Main Features	Anti-glare; dustproof; waterproof
2	Resolution	4096×4096
3	Size	10.4 inch
4	Light Transmission	90 92
5	Touch activation Force	Touch less than 80g(adjust allowed)
6	Touch life expectancy	50 million times
7	Surface Hardness	Mohs' hardness rating of 7
8	Operating Temperature	-20 50
9	Storage Temperature	-40 70
10	Operating Humidity	90 RH at 40 ,no condensing

11	Communication pattern	Serial port
12	Respond time	≤10.4ms
13	Operating Voltage	12±2V
14	Operating current	90mA

■2.5 Printer

S/N	Part Name	Specification
1	Printing pattern	Thermal printer
2	Communication terms	RS-232 serial port/USB
3	Printing speed	150mm/s or 180mm/s
4	Paper width	79.5±0.5mm
5	Operating temperature	5 50
6	Operating humidity	10 80
7	Power supply	DC24V/2A
8	Printing module life expectancy	About 100km

■2.6 RFID card reader

S/N	Part Name	Specification
1	Communication Rate	USB1.1
2	Output format	USB VIRTUAL KEYBOARD MODE 3 BYTES CARDS SNR CHANGE TO 10DEC
3	Operating Frequency	125KHz
4	Support card	EM4100 EM4200 TK4100 and compatible card
5	The status indicates	One red led ,one green led(LED and beep when flash card)
6	Read Rate	<0.2S
7	Communication line	1.5 meters USB conjunction line
8	Dimension	115mm x 82mm x 25mm
9	Weight	100g
10	Power supply	From USB DC 5V
11	Consumption Current	≤45 mA
12	Operating distance	0~9cm (depend on antenna and transponder)
13	Operating temperature	-10 ~ 60
14	Operating humidity	0 ~ 95%
15	Communication	USB VIRTUAL KEYBOARD MODE

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■2.7 Swipe card reader

S/N	Part Name	Specification
1	Reading method	Bi-directional card reading
2	Support card	Reads encoded data that meets ANSI ISO AAMVA standards and others such as ISO track 1 format on track 2 or 3
3	Power supply	From USB DC 5V
4	LED for status	red green LED indicates the reading status
5	Communication	USB2.0 compatible USB1.1

■2.8 Web camera

2.8.1 Web camera 1(Microsoft Kinect -XBOX360)

S/N	Part Name	Specification
1	Horizontal Angle	57°
2	Vertical Angle	43°
3	Sensing deep range	1.2-3.5m
4	Character tracking	Kinect can track 6 players at the same time at most, while only two players can operate one game at the same time
5	Depth sensor lens	320×240 16bit 30fps
6	Color sensor lens	640×480 32bit 30fps
7	Sound	16bit 16khz

2.8.2 Web camera 2(GD-B239C)

S/N	Part Name	Specification
1	Effective pixel	2 million pixel
2	Interface	USB2.0(with1.5m USB cable)
3	Signal to noise ratio	48dB
4	Image output size	1600*1200 optional
5	Current	100mA±10%
6	Voltage	DC 5V±10%
7	Viewing angle	90°
8	Lens	2.5mm
9	Net weight	50g

■2.9 Electromagnetic lock

S/N	Part Name	Specification
1	Operating Voltage	DC12V

2	Operating characterizes	It will produce the strong magnetic field when working, don't put the magnetic sensitive components near to the lock
3	Operating life expectancy	Wear resistance; corrosion resistance; low power consumption; long life expectancy; easy maintenance
4	Lock function	Manual operation

■2.10 wifi router

S/N	Part Name	Specification
1	Working voltage	DC12V 1.5A
2	*System Requirements*	Windows 2000/XP/7, Mac OS X, or Linux computer
3	FEATURES	·Plug-and-Play support for over 120 broadband data modems, allowing for site-specific carrier/service selection for broadest deployment ·Virtual LAN capabilities ·Data Usage section that allows users to track and manage modem use relative to data plans
4	Green	Ethernet connected
5	Blinking green	Ethernet activity
6	No light	Ethernet disconnected or link failure

■2.12 Blood pressure module

S/N	Part Name	Specification
1	Working voltage	DC9V 4A
2	*Operating Conditions*	0°C to 50°C, 15% to 95% non-condensing humidity
3	*Storage Conditions*	-20°C to 65°C, 15% to 95% non-condensing humidity
4	*Altitude*	Measurement accuracy is not affected by altitude
5	Interface way	RS232
6	*Pressure Transducer Accuracy*	±3mmHg between 0 mmHg and 300 mmHg for operating conditions between 0°C and 50°C
7	*Initial Inflation Pressure*	ADULT: 160 mmHg (default) Variable from 120 to 280 mmHg

		PEDIATRIC: 120 mmHg(default)
		Variable from 80 to 170 mmHg
		NEONATE: 90 mmHg (default)
		Variable from 60 to 140 mmHg

■2.13 PCB board (OEM USB High Stability Digitizer ASCII protocol)

S/N	Part name	Specification
1	Working voltage	DC5V
2	Storage Temperature	- 40 to + 85ºC
3	Operating Temperature	- 40 to + 85ºC
4	Relative Humidity	95% maximum non condensing
5	Power Supply current (350 Ohm Bridge)	68 75 mA
6	Gain Temperature Stability	30 50 ppm/C

■2.14 Load cell

S/N	Part Name	Specification
1	Ultimate overload	200kg
2	Accuracy grade	C3-0.017%, C6-0.008%
3	Material	Aluminum IP65
4	Input/output resistance	Input 410Ω Output 350Ω
5	Maximum platform size	400×400, 500×500mm
6	Certificate	OIML, NTEP, ATEX, FM

■2.15 Pulse Oximeter

S/N	Part Name	Specification
1	Displayed Oxygen Saturation Range (SpO2)	0 to 100%
2	Displayed Pulse Rate Range	18 to 300 beats per minute (BPM)
3	Temperature (Operating)	-5 °C to +50 °C (23 °F to 122 °F)
4	Temperature (Storage/Transportation)	-40 °C to +70 °C (-40 °F to +158 °F)
5	Humidity (Storage/Transportation)	

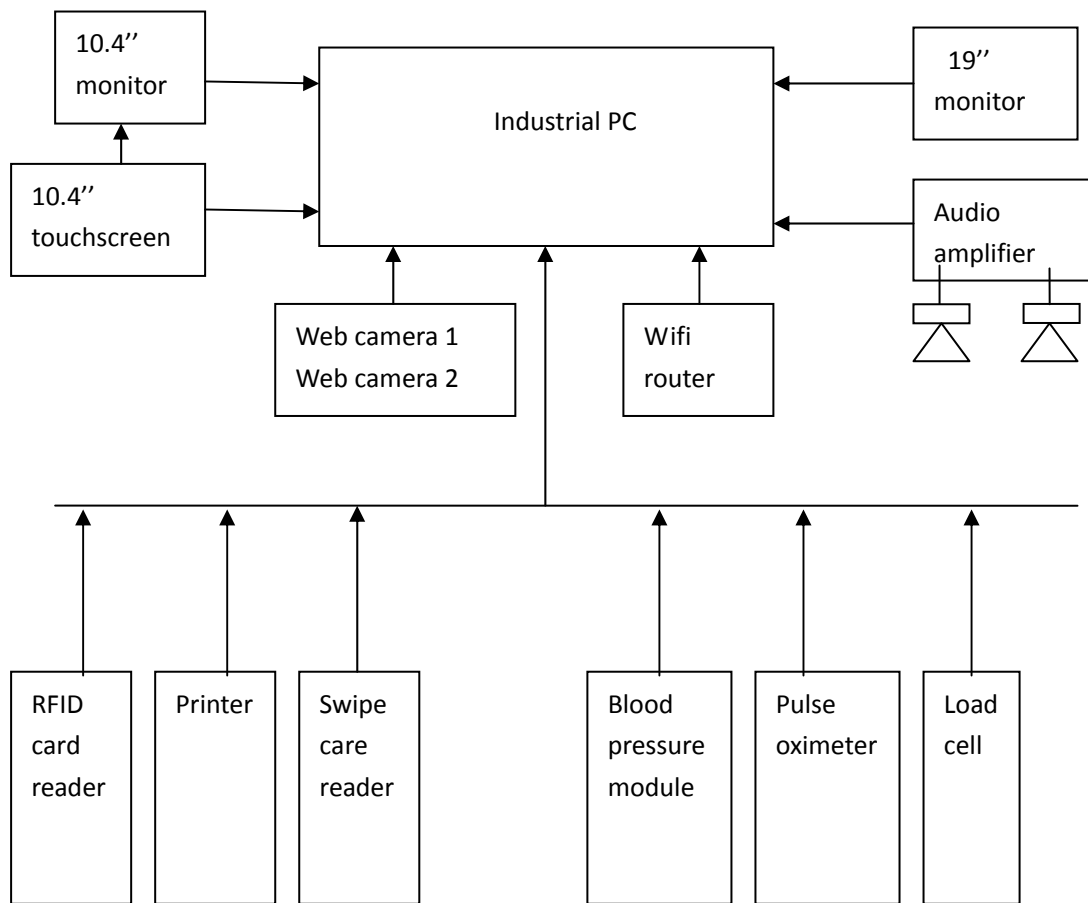|		10 to 95% non-condensing
6	Power Draw	68 mW typical operation
7	Voltage Input	2 to 6 VDC, w/100 mV max. ripple
8	I/O Signals	0 to +5.0 VDC (nominal)
9	Dimensions	1.26 x 1.25 x 2 inches (32 x 32 x 51 millimeters)
10	Weight	100 g (3.5 oz.) (including 1m cable and connector)

■2.16 Power supply

S/N	Part Name	Specification
1	Output Voltage	DC24V/12V
2	Rated Current	V1:24V/5A V2:12V/3A

■2.17Industrial PC

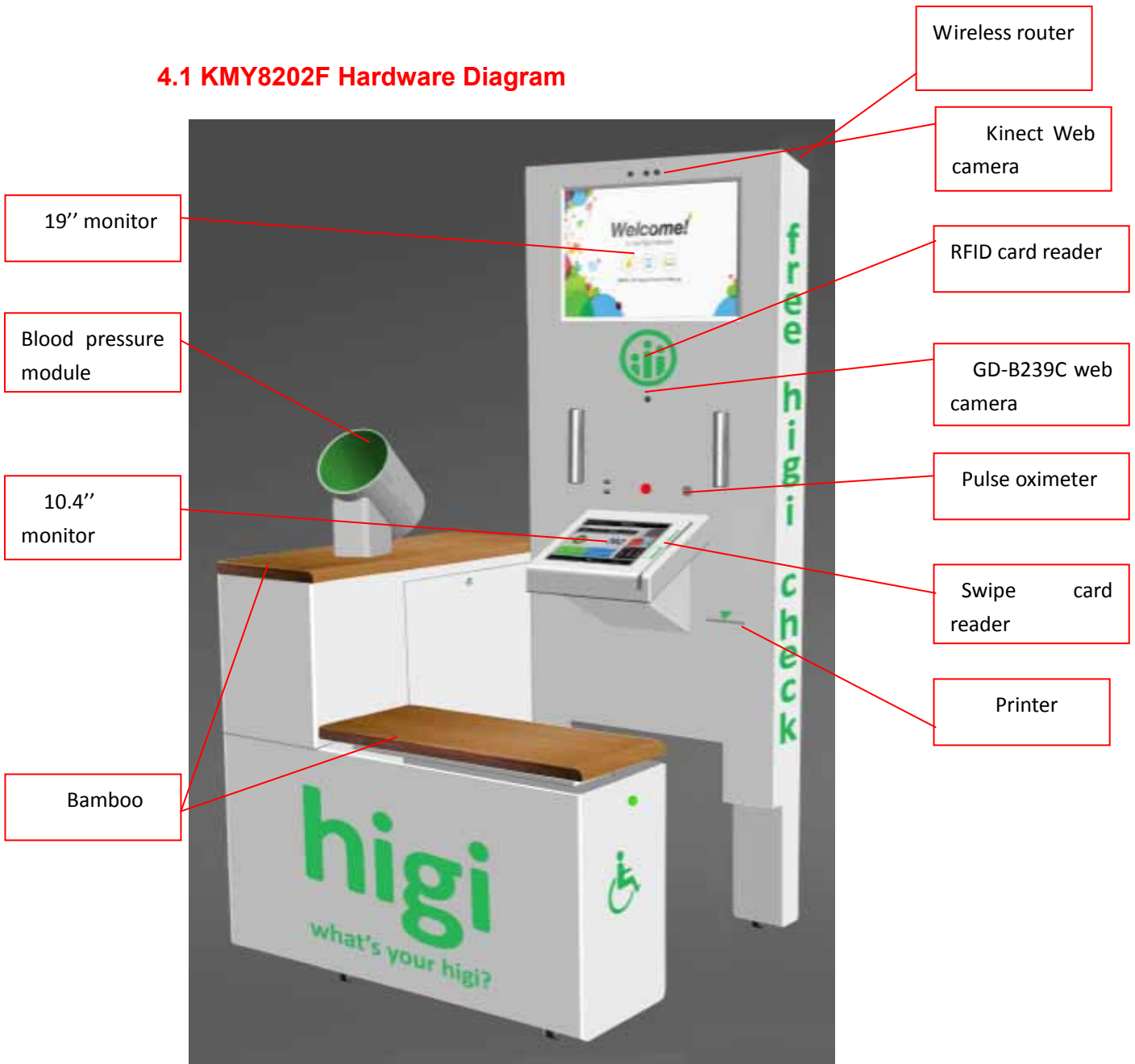| S/N	Part Name	Specification
1	CPU	Intel corei7-2600, 3.4G
2	Memory	Kingstone4G DDR3×2
3	Video card	PCI Express x16,1G
4	Hard disk	SATA Interface 500G
5	Operating temperature	0 -50
6	Size of the motherboard	170mm×170mm
7	Operating humidity	20 93 no condensing
8	Operating voltage	AC110V 50HZ
9	Power consumption	≤150W
10	Power supply for the PC	ATX-350P4(updated version) 350W
11	External Interface	1 VGA port 1 DVI interface,6 RS232 port 7 USB port, 1 four port USB HUB 1 RJ-45 internet interface 1 PS/2 mouse interface keyboard interface,1 I/O interface microphone, sound input and output)

3. **Working principle**

KMY8202F series self-service healthcheck kiosk has the key components: industrial PC, monitor with touchscreen, cash acceptor and cash dispenser. When a finger touch the surface of the display, the controlling board will offer the information source and also change the received simulated signal to coordinate signal, send the coordinate information to the industrial PC through the standard RS232 port instead of the mouse functionality. The components of product diagram see as below. Driver software can be worked normally under the corresponding operating system support.

4. Hardware Configuration

4.1 KMY8202F Hardware Diagram

- Wireless router
- Kinect Web camera
- 19'' monitor
- RFID card reader
- Blood pressure module
- GD-B239C web camera
- 10.4'' monitor
- Pulse oximeter
- Swipe card reader
- Printer
- Bamboo

4.2 Operating method for starting components

Need to open the door before turning on the PC, changing the printer paper, add the

cash or other operating process.

a. Turn on-Open the door and then press on the "start" button.
b. Volume adjustment-open the door, and press on the "volume" button to adjust the proper volume
c. Change the printer paper-open the door to change the printer paper directly.
d. Adjust the monitor-Usually use the settlement of adjusting automatically for the standard brightness, contrast, etc. If need the special parameter, use the "adjustment" button below the display

5. Unpack and Install

    1   Please check whether the accessories are complete and not damaged one by one after unpacking.

    2   After unpacking, connect the power cord into the power outlet AC110V, then turn on the PC. Check whether the monitor is normal working; whether the touchscreen is sensitive, if not, please calibrate again; Test whether the web camera can catch the high definition video and picture; Whether the printing is clear   Whether the RFID card reader can read the data of the RFID card; Whether the swipe card reader can read the data of magnetic card whether the wifi router can connect the internet normally   Whether the data of the blood pressure is accurate   Whether the data of the pulse oximeter is accurate; whether the load cell can weigh the right weight; whether the electromagnetic lock and separate when the outage, and suck together when power on   whether the speaker work normally, the sound volume is same for both side.

    3 Please make sure all the components work normally, and keep the warranty card.

For more enquiries or details please call our International Sales Hot-Line:
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6. Operate and Maintenance

6.1 Operate

a. Switch On

Connect the power cord into the AC120V power outlet; pull the switch of the main power supply to the open status, then press on the switch of PC power supply, the industrial PC will start the application automatically.

b. Operate

This machine is for self-service health check and information checking. When the users need to check some information, they just need to find out and click the related item in the software interface.

C. Switch off

After finish the working everyday, exit the current application before turning off the device and return to the Windows interface, then switch off the industrial PC normally. At this moment, the industrial PC has stopped working, then turn off the main power supply switch.

6.2 Maintenance

Keep the screen surfaces cleaning. Find screen surface is water, oil and dirt shall clean up immediately once find water, oil and something dirty. Avoid using the wet object, should clean up by the soft cloth.

6.3 Troubleshooting

a. Appearance Inspection

Whether the controller for the touch screen connect external loose.

Whether the controller for the touch screen connect the PC power cord loose.

Whether the connection lines are disconnected.

b. Boot observation

There is a blue LED light between the controller external pin. When the touch screen is under the working condition, it will shine without touch. Will flash per second without connecting the touch screen; if connected, the light will flash a few seconds and then recover to shine all the time.

Judge the malfunction according to the following method:

The LED light is not bright: +12 power supply or connection is abnormal

The LED light is bright all the time: there is something dirty on the surface of screen or the RS232 port is abnormal.

The LED light shine normally, while after touch the screen, it will be bright all the time, can't recover to shine: the RS232 port can't read the data or set the wrong parameter of the RS232 port.

Notes:
When need to remove the related components for the maintenance, it should be operated by professional maintenance personnel. It is strictly prohibited to non-professional staff engaged in this product maintenance. There are warnings inside of the kiosk, in case of risk, must switch off the power supply before remove the components.

FCC WARNNING:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following

measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different

from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.