

# Chapter 1 Specification Summary

## 1.1 Specification

	Model	Parameters	
board	LCD size	65"	
	LCD type	A Grade	
	Board model	K650WD7-MB350A1	
	incoming inspection standard of board	TBD	
	light source	LED Backlight	
	usage type of board	TV	
	resolution	FHD 1920 x 1080 (pixels)	
	Brightness (typ)/(min)	350cd/m <sup>2</sup> nits (typ.)	
	contrast ratio (typ)	5000;1 (typ.)	
	response time (ms)	6.5ms (typ.)	
	Pixel Pitch	0.248 mm x 0.744 mm	
	Frame rate	60 Hz	
	viewing angle	176 degrees (H) / 176 degrees (V)	
	lifetime (typ)/(min)	30,000 hrs (min.)	
	colour saturation (x% NTSC)	65%	
	VIEWABLE AREA	1428.48 x 803.52mm	
Chromaticiy	16.7M(8bit)		
program	Scalar	MSD6A818	
System Property	CPU	Framework	ARM Cortex A7
		Working Frequency	1.2GHz
		Core number	Quad-Core
	GPU		Mali-450
	RAM		1GB DDR3
	ROM		4GB
System Version		Android 4.2+Special smart TV interface style	
power supply	voltage	100 V ~ 240 V, 50-60 Hz	
	maximum value (Watt)	≤207W	
	Standby (Watt)	≤0.42W	
condition	Working Temperature (dC)	0°C ~ 40°C	
	Storage Temperature (dC)	-10°C ~ 60°C	
	Storage humidity	10% ~ 60% RH Non-Condensing	
	Working Humidity	20% ~ 80% RH Non-Condensing	
	Video mode	Standard, soft, users, and bright	
	Longest working time(hour/day)	18 hours	

function	Inside speaker	10W * 2
	Power(AC) Input	*1
	Power switch	*1
	Support 8/10bit double lines LVDS(1920*1080)Hd display, support temperature control,Light sensitive function and nature color. OSD humanized operation menu,perfect factory setting pattern.	
Input/Output interface	HDMI input port	*5
	HDMI output	*1

	VGA input port	*1
	PC-AUDID Input Port	*1
	Y PB PR Input port	*1
	LAN Port	*1
	AV input port	*1
	AV input port	*1
	AV output port	*1
	EARPHONE Output port	*1
	TV Input port	*1
	COAXIAL Output port	*1
	MEDIA-USB	*2
	PC-USB	*2
	TOUCH-USB	*2
	TV-AUDIO output port	*1
	TV-MIC input port	*1
long-range control port	RS232	RS232-IN*1; RS232-OUT*1
Structure	Net weight	53 Kg±1 Kg
	Gross weight (carton/wooden case)	66Kg±2 Kg (Carton)
	Boundary dimension (WxHxD)	1510.5 * 122 * 886.5mm
	Package size(WxHxD)(carton/wooden)	1765*1165*320mm (Carton)
	material	Aluminum /Plastic
	color	Black
	Width of frame (T/B/L/R)	26.52 / 66.6 / 26.52 / 26.52 mm
	wall bracing	Screw hole 4-M8 400mm*400mm
language	OSD	English/Chinese
accessory	remote-control unit	*1
	power line	*1
	Touch Pen	*2
	certificate of soundness	*1
	Manual	*1
	warranty card	*1

## 1.1 Interface Specification

Bottom left of the front: TV-AUDIO \ TV-MIC\PC-USB \ MEDIA-USB \ TOUCH-USB \ HDMI

Left side of the bak: AV-OUT \ AV-IN \ TV \ MEDIA-USB2 \ HDMI4 \ EARPHONE \ COAXIAL \  
TOUCH-USB \ RS232-IN \ RS232-OUT

Left bottom of the back: HDMI1 \ HDMI2 \ HDMI-OUT \ LAN \ HDMI3 \ VGA \ PC-AUDIO

## Chapter 2 Specification of Touch Frame

### 2.1 Product Summary

High precision of infrared touch frame, the resolution of the interpolation algorithm can be as high as 32768\*32768.

Support plug and play.

Maximum support 10 point touch.

### 2.2 Main Specifications and Parameters

	Touching Glass	Infrared touch frame 4mm tempered glass >88% (Higher transmittance depends on the glass surface treatment technology, like AR/AG)
	Transmittance of Glass	
	Interpolated Resolution	32768 × 32768
Touching parameter	Response speed	11ms
	Touching precision	More than 90% of the touch area of plus or minus 2 mm
	Input mode	opaque objects such as fingers, touching pen
	Output mode	coordinate output
	Clicks on theory	Unlimited times
	Minimum touch objects	6mm
	light resistance	With light resistance

### 2.3 Electrical performance

Interface Type	USB2.0 full speed
Working voltage	DC+5V±6%
Power consumption	≤1W
Additional Function	Serial port
Static level	According to EN 6100-4-2 2008: level3. , Air type discharge 8KV

## 2.4 Operating System and Software

Firmware upgrade way	Windows 7 and Windows XP support USB upgrade
the system which support Multi-touch	Windows7/8/10,Windows7 Professional,Windows7 Home Premium,Android(Must add the patch in kernel code),The above system must have a multi-touch function,and the operating system must be original(not GHOST version),Otherwise will affect the touch
the system which support single touch	Windows 7 /Windows XP/Vista/Linux/Mac OS/Android/Wince