

Z32LC6D-UM

Z37LC6D-UM

(ZEN32/37)

Product Specification

LCD TV Business Unit

DTR2.

Qisda Corporation

LGE

Display DIVISION

LG(51)

Establishment : 2008.03.18

Revision :

ZEN32/37 Product Specification

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1. Application Range

1.1 This spec sheet is applied all of the LC TV with LA75C chassis

1.2 Not included spec and each product spec in this spec sheet apply correspondingly to the following each country standard and requirement of Buyer

Chassis	Model Name	Market Place	Brand	Remark
ZEN32/37	Z32LC6D-UM	NORTH AMERICA	ZENITH	CLASS C
	Z37LC6D-UM			

2. Specification

Each part is tested as below without special appointment.

2.1 Temperature : 20±5℃

2.2 Relative Humidity : 65±10%

2.3 Power Voltage : Standard input voltage (100~240V@ 50/60Hz)

* Standard Voltage of each product is marked by models

2.4 Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.

2.5 The receiver must be operated for about 20 minutes prior to the adjustment.

3. Test method

3.1 Performance : LGE TV test method followed

3.2 Demanded other specification

Safety : UL, CSA, IEC specification

EMC : FCC, ICES, IEC specification

Model	Market	Appliance	Compliance
Z32LC6D-UM Z37LC6D-UM	NORTH AMERICA	Safety : UL1492, CSA C22.2.No.1 EMC : FCC Class B, IEC Class B	

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4. General Spec.

No	Item	Specification			Remark
1.	Receiving System	ATSC/64 & 256 QAM/ NTSC-M			
2.	Available Channel	1) VHF : 02~13 2) UHF : 14~69 3) DTV : 02-69 4) CATV : 01~135 5) CADTV : 01~135			
3.	Input Voltage	1) AC 100 ~ 240V 50/60Hz			
4.	Market	NORTH AMERICA			
5.	Screen Size	32 inch HD – 31.51 Inch			Z32LC6D-UM
		37 inch HD – 37.02 Inch			Z37LC6D-UM
6.	Aspect Ratio	16:9			
7.	Tuning System	FS			
8.	LCD Module	T315XW02 VL (AUO)			Z32LC6D-UM
		T370XW02 VC (AUO)			Z37LC6D-UM
9.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : ~ 80 %			
10.	Storage Environment	1) Temp : -20 ~ 60 deg 2) Humidity : 0 ~ 90 %			

5. Feature and Function

1	Feature	AV Input	2	AV Input1, 2 (AV1, AV2)			Rear 1, Side 1
		S-Video	2	S-Video			Rear 1 Side 1
		RGB Input	1	Analog RGB			Rear1 (D-SUB 15pin)
		HDMI Input	2	HDMI1/DVI, HDMI2 Input			Rear 2(LG)
		Audio Input	1	For RGB/DVI audio Input			Rear (Headphone)
		Y, Pb, Pr Input	2	Component 1, 2			Rear 2
		Audio Input	2	For Component 1, 2			Rear(L,R)
		Audio Out	1	Audio Out			Rear(L,R)
		SPDIF Out	1	SPDIF Out			Rear (Optical)
		IR Input	1	Wire IR (Wire IR priority)			Rear(Phone Jack)
		RS-232C	1	S/W Download			D-SUB 9pin
		USB2.0		S/W Download (only download)			USB 4pin
		D-SUB(15Pin)		Micom Download			D-SUB 15pin

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2	Key	Local Key	POWER, INPUT, MENU, ENTER VOLUME(◀ , ▶), CH(▲ , ▼)				8Key
3	Setup	Auto tuning	Auto Channel Setup				
		Manual tuning	TV/DTV/CATV/CADTV DTV Signal (Bad/ Normal/ Good)				
		Channel Edit	(Favorite) Channel Add/Delete				New Design
4	Picture	Picture mode	Dynamic, Standard, Mild, User 1, User 2(Contrast, Brightness, Color, Sharpness, Tint), Back Light				
		Color Temperature	Cool/ Medium/ Warm/User(each RGB -20~+20)				
		DB	Auto/Manual(DB Contrast, DB Color, DB Noise) on/off				Picture mode : user1/2
		Advanced	Cinema 3:2 Mode(off/on), Black Level(Low/High)				
		Aspect Ratio	Set By Program/4:3/16:9/Zoom1/Zoom2/Justscan				
		Picture Reset	Initialization				
		Screen	Resolution , Position , Size , Phase , Reset				
5	Audio	Sound Mode	Standard, Music, Movie ,Sports ,User(Treble, Bass, Front Surround(Off / 3D Echosound system , SRS TruSurround XT)				
		Auto volume	On/Off				Default: Off
		Balance	L1~L50, 0, R1~R50				
		TV Speaker	On/Off				
6	Time	Auto clock	Year/Date/Time, Time Zone/Daylight Saving				Default: Off
		Manual Clock	Year/Date/Time				
		Off Timer	On/Off, Time				
		On Timer	On/Off, Time/Channel/Volume				
		Sleep Time	Off/10min/20min/30min/60min/90min/120min/180min/240min				
		Auto Sleep	On/Off				
7	Option	Language	English/Spanish/ French				
		Audio Language	English / Spanish / French				DTV Only
		Input Label	AV1/2, Component1/2, RGB- PC, HDMI /DVI , HDMI2 VCR->DVD->Set Top Box->Satellite->Cable Box->Game->PC->Blank				
		Key lock	On/Off				
		Caption	On/Off CC 1~4/ Text 1~4(Analog),service1~6(digital) , Digital option				
		Set ID`	1~99				
	Lock	Lock System	On/Off				
		Set password	New/Confirm				Default : 0000
		Block channel	Select				
		Movie Rating	G/PG/PG-13/R/NC-17/X				

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8		TV Rating-Children	Age/ Fantasy Violence			
		TV Rating-General	Age/Dialogue/Language/Sex/Violence			
		Input Block	AV1, AV2, Component1, Component2, RGB-PC, HDMI1/ DVI, HDMI2			
9	Etc.	Remote control	LG code			
		3:2 Pull-Down	○			480i , 1080i Component , HDMI (Composite only 480i)
		HDCP	○			

6. Safety and Regulation

No	Item		Min	Typ	Max	Unit		Remark
1.	Force Stability – Incline Plane Tip Test		10			deg		IEC60065
2.	Isolation Gap, AC-AC		3			mm		
3.	Isolation Gap, AC-DC		3			mm		
4.	Isolation Gap, Primary ↔ GND	300Vrms	3.2			mm		
		400Vrms	4.0					
	Isolation Gap, Primary ↔ Secondary	300Vrms	6.4			mm		
		400Vrms	8.0					
5.	Power Consumption, Max			170	190	W		Z32LC6D-UM
				250	270	W		Z37LC6D-UM
	Power Consumption, Cold Stand by				1	W		Z32LC6D-UM
					1	W		Z37LC6D-UM
6.	Dielectric Voltage	GND	1500 V/min at 100mA					IEC60065
			4 MΩ					※ Dielectric Voltage (AC↔FG)
	Dielectric Voltage (For M/P)		UL/CSA					- 1.5kV/100mA/1min - 1.5kV/100mA/1sec(M/P)
7.	Isolation Resistance		4			MΩ		※ Dielectric Voltage (WITHOUT FG)
8.	Leakage Current	UL/CSA			0.5	mArms	UL60065	External interface signal line↔AC
9.	Sharp Edge		None					- 3kV/100mA/1min - 3kV/100mA/1sec

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No	Item		Min	Typ	Max	Unit		Remark
10.	UL Compliance	Safety	UL60065, 7 th edition					
		EMC	FCC Class B					
11.	CSA Compliance	Safety	CAN/CSA-C22.2 No. 60065-03					
		EMC	IC					
12.	IEC Compliance	Safety						Not Applied
		EMC						
13.	CE Compliance	Safety						Not Applied
		EMC						
14.	Earth Continuity Test		$\leq 0.1\Omega$ at 40A/2min(CSA) (3Poles)					

7. Video

No	Item		Min	Typ	Max	Unit		Remark
1.	Over scan, Vertical		5	6	12	%		
2.	Over scan, Horizontal		6	7	12	%		
3.	Max Input Level		-10			dBm		
4.	Gain Limited Sensitivity	VHF			-87	dBm		
		UHF			-84	dBm		
5.	IF Rejection Ratio		-13			dB		
6.	Image Rejection Ratio		-13			dB		
7.	Adjacent CH Rejection Ratio	Upper	-6			dB		
		Lower	-13			dB		
8.	FM Rejection Ratio	201CH	-13			dB		
		203CH	-13			dB		
9.	Sync Stability	Level			35	%		
		Range			-80	dBm		
10.	Tuning Range		-1.5	0	1.5	MHz		
11.	AFT (CATV 5 & 6 channel)		-1.5	0	2.3	MHz		
12.	AGC Speed		120			Hz		
13.	RF In Color Pull in Range		-450		450	Hz		
14.	Color Killer Sensitivity				-80	dBm		