

Z32LC6D-UM

Z37LC6D-UM

(ZEN32/37)

Product Specification

LCD TV Business Unit

DTR2.

Qisda Corporation

LGE		Display DIVISION		LG(51)	
Establishment : 2008.03.18		ZEN32/37 Product Specification		39	2
Revision :					
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	

LGE

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NORTH AMERICA

Safety : UL1492, CSA C22.2.No.1

EMC : FCC Class B, IEC Class B

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)

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		IR Input	1	Wire IR (Wire IR priority)				Rear(Phone Jack)	
		RS-232C USB2.0 D-SUB(15Pin)	1	S/W Download S/W Download (only download) Micom Download				D-SUB 9pin USB 4pin D-SUB 15pin	
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						
5	Audio	Screen	Resolution , Position , Size , Phase , Reset						
		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						
6	Time	TV Speaker	On/Off						
		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						
7	Option	Auto Sleep	On/Off						
		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						

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8	Lock	Lock System	On/Off			
		Set password	New/Confirm			Default : 0000
		Block channel	Select			
		Movie Rating	G/PG/PG-13/R/NC-17/X			
		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					
	Power Consumption, Max			170	190	W		Z32LC6D-UM
				250	270	W		Z37LC6D-UM
5.	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					<u>※ Dielectric Voltage</u>
	Dielectric Voltage (For M/P)		UL/CSA					<u>(AC↔FG)</u> <u>- 1.5kV/100mA/1min</u> <u>- 1.5kV/100mA/1sec(M/P)</u>
7.	Isolation Resistance		4			MΩ		

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No	Item		Min	Typ	Max	Unit			Remark
8.	Leakage Current	UL/CSA			0.5	mArms	UL60065		<u>※ Dielectric Voltage</u>
9.	Sharp Edge		None						<u>(WITHOUT FG)</u> <u>External interface signal</u> <u>line↔ AC</u> <u>- 3kV/100mA/1min</u> <u>- 3kV/100mA/1sec</u>
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		≤ 0.1Ω 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			