

Technical Specifications for LCD Television Product

Form: HAF20141120

HA model number	50K321UW
Manufacturer model number	LTDN50K321UWT
Description	126cm (50 in) LED direct-lit LED TV



Specifications document control

Status [Draft Tentative Final]	Final	1
Revision number	5	2
Date	2015/6/5	3
Issued by	Colin	4
Approved (HA / HQ)	Yes / Yes	5

Image

Panel manufacturer	-	HS	1
Panel model	-	HD500DU-B01	2
Active display area, horizontal dimension	[mm]	1095.84	3
Active display area, vertical dimension	[mm]	616.41	4
Commercial screen size (rounded to nearest integer)	[cm / inch]	126 / 50	5
Backlight source {CCFL, Edge-lit LED, ...}	-	DLED	6
Resolution (Horiz x Vert)	[Pixel]	3840×2160	7
Vertical refresh rate	[Hz]	100/SMR400	8
3D image	-	No	9
Brightness	[nit]	330	10
Native contrast ratio	-	1200:1	11
Viewing Angle (Horiz / Vert)	[Degrees]	85 / 675	12
Response Time	[ms]	9.5	13

Connectivity

HDMI inputs (Qty / HDMI Version)	-	4 / [2 x 1.4 + 2 x 2.0]	1
MHL input (shared with one HDMI input)	-	1	2
Radio frequency input (RF)	-	1	3
Component / Y Pb (Cb) Pr (Cr)	-	1	4
Audio L/R for component input (Shared with AV input)	-	1	5
S-video input	-	0	6
AV input (Qty / shared)	-	1 / Yes	7
AV output	-	0	8
USB interface	-	3	9
VGA input	-	0	10
Audio L/R for VGA input	-	0	11
SCART input/output	-	0	12
Optical digital audio output (SPDIF)	-	1	13
Woofer output	-	0	14
Earphone jack	-	1	15
Serial port (RS232 protocol, 0-5V logic levels)	-	1	16

Networking

Ethernet RJ45 port	-	Yes	1
Wireless IEEE 802.11 support ([None Internal External])	-	Internal	2
Wireless IEEE 802.11 (Protocol [None b g n ac ad] / Band)	[- / GHz]	b g n ac / 2.4GHz + 5GHz	3
External wireless adapter: Supported / Brand / Type	-	-	4
DLNA compliance	-	Yes	5
Bluetooth / BT version	-	No	6
Internet television (IPTV)	-	Yes	7
Applications availability {Provider 1, Provider 2,}	-	Netflix / YouTube / Facebook / SMH	8
Web browser provider [None Chrome Opera Other]	-	Opera	9

Digital TV Reception

Television standard in VHF band	-	DVB-T2	1
Television standard in UHF band	-	DVB-T2	2
AS 4599.1 compliance	-	Yes	3
AS 4933.1 compliance	-	Yes	4
AC3 Surround sound decoder	-	Yes	5
Logical channel number (LCN) and service name support	-	Yes	6
Teletext / Teletext signal interruption (TAB compliant)	-	Yes / Yes	7
Subtitles	-	Yes	8
HbbTV	-	Yes	9
RF Signal strength indicator	-	Yes	10
RF Signal Quality indicator	-	Yes	11
RF Bit error rate indicator	-	No	12
Electronic programming guide (EPG) 7 days for all sub-channels	-	Yes	13
Parental rating lock	-	Yes	14

Analogue TV Reception

Colour-Sound systems in VHF band	-	PAL B	1
Colour-Sound systems in UHF band	-	PAL B	2
Stereo sound decoder {A2, Nicam, ...}	-	A2 / NICAM	3
Teletext / Teletext signal interruption (TAB compliant)	-	Yes / Yes	4
Subtitles	-	Yes	5

Image control

Backlight control	-	Yes	1
Light sensing	-	No	2
Adaptive backlight	-	Yes	3
Zoom function with: 4:3, 16:1, Auto, Zoom 1, Zoom 2	-	Yes	4
1:1 Pixel mapping	-	Yes	5
Still image	-	No	6
Image size adjustment (DTV / HDMI / Component / VGA)	-	No / No / No / No	7
Image position adjustment (DTV / HDMI / Component / VGA)	-	No / No / No / No	8
Dual image (PIP / POP)	-	No / No	9
Motion enhancement and compensation (MEMC)	-	Yes	10

Sound

Audio power output per channel	[Watt]	10W	1
Automatic volume level (AVL)	-	Yes	2
Audio equalizer	-	Yes	3
Dolby Digital	-	Yes	4
Audio enhancement -Type {SRS, BBE, SAP, DBX-TV...}	-	DBX	5
Lip-sync adjustment	-	Yes	6

Features

On/off timer	-	Yes	1
No signal power off	-	Yes	2
Sleep timer	-	Yes	3
Child lock	-	Yes	4
Program lock	-	Yes	5
OSD transparency control	-	No	6
Software version OSD indication	-	Yes	7
Legal requirements: Disclaimer / Acceptance of Terms	-	Yes / Yes	8
Favourite channels list	-	Yes	9

Advanced Features

Personal Video recorder	-	Yes	1
Time shifting	-	Yes	2
Recording (EPG / Standby)	-	Yes / Yes	3
DivX decoder	-	Yes	4
MPEG4 / H264 / H265 decoder	-	Yes / Yes / Yes	5
Digital media player (DMP) content (Music / Video / Photos / Text)	-	Yes / Yes / Yes / No	6
List of DMP formats for audio and video provided [Yes No]	-	Yes	7
DMP Auto-play	-	Yes	8
DMP for UHD content via USB [Yes No]	-	Yes	9
DMP File allocation table (FAT / FAT32 / exFAT / NTFS)	-	Yes / No / No / No	10
PVR File allocation table (FAT / FAT32 / exFAT / NTFS)	-	Yes / Yes / No / Yes	11
Electronic point of sales (E-POS)	-	Yes	12
Software update over IP	-	Yes	13
Skype	-	No	14
HDMI features (CEC / ARC)	-	Yes / Yes	15
Remote control via serial port	-	No	16

Hotel lock

Password protected Hotel lock submenu	-	Yes	1
Clone function for programs, sound and image settings.	-	Yes	2
Tuning lock	-	Yes	3
Maximum volume lock	-	Yes	4
Power on volume	-	Yes	5
Power on source selection	-	Yes	6
Power on RF channel selection	-	Yes	7
Power on mode (On / Standby / Last)	-	Yes / Yes / Yes	8
Inputs access (Enable / Disable)	-	Yes	9

Hardware

Processor	-	MT5657MCEJ	1
Dual Tuner	-	No	2
Speakers mounted in a box	-	Yes	3
Woofers	-	No	4
Mains power switch	-	No	5
Swivel base	-	No	6
Compact packaging	-	Yes	7
Supply range [Voltage / Frequency]	[Volt / Hz]	100 ~ 240V/50 60Hz	8
Standby consumption	[Watt]	<1W	9
Wall mount dimensions (Horiz / Vert)	[mm]	200 x 200	10
Wall mount, screw thread	[mm]	M6	11
Maximum time delay Power On to sound an image	[sec]	18	12

Accessories

Remote controller (Technology / Part number)	-	IR / EN2B27	1
Battery (size / quantity)	[Qty]	AAA / 2	2
Detacheable power cord	[Qty]	1	3
Cable tie	[Qty]	0	4
User manual / Quick setup guide	[Qty / Qty]	1/1	5
Warranty [In User manual In separate sheet]	-	In separate sheet	6
Skype camera (Qty / Part number)	[Qty / -]	-	7
3D glasses type [Passive Shutter] / Link [RF IR BT]	[Qty]	-	8
3D glasses (Qty / Part number)	[Qty]	-	9

Dimensions

Dimensions with stand (W x H x D)	[mm]	1124 × 702 × 247	1
Dimensions without stand (W x H x D)	[mm]	1124 × 649 × 82	2
Carton box dimensions (W x H x D)	[mm]	1239 × 156 × 760	3
Net weight (with stand / without stand)	[kg]	13.8 / 13.5	4
Gross weight	[kg]	17.8	5
Container load (20ft / 40ft / 40ft HC)	[Qty]	183 / 393 / 393	6

Licencing and Certification

EMC- Electromagnetic Compatibility	-	Yes	1
CB- Electrical safety	-	Yes	2
HDMI	-	No	3
Dolby Digital	-	No	4
MEPS- Test report	-	Yes	5
ROHS	-	No	6
Other	-	No	7

Documentation required before purchase order

Panel specifications	-	Yes	1
Initial specifications (input form)	-	Yes	2
Final product specifications	-	Yes	3

Documentation required before mass production

CB report and certificate	-	Yes	1
EMC report and certificate	-	Yes	2
Power cord, plug and connector Australian safety approval	-	Yes	3