

PRODUCT SPECIFICATION

Date:13.01.2017

VESTEL**DH55V03D****FULL HD VNB D-LED****Deluxe+ HOTEL TV**

SPECIFICATIONS

	Model Name	DH55V03D
GENERAL	Size	55
	Cabinet No	55287
	Bezel	VNB
	Resolution	FULL HD
	Type	D-LED
	Dynamic Contrast Ratio	100,000:1
VIDEO	Aspect Ratio	16:9
	Brightness (cd/m2)	300
	Viewing Angle	178° (H) / 178° (V)
	CTI/LTI	Available
	Digital Noise Reduction	Available
	Dynamic Contrast	Available
	Progressive Scan	Available
	Audio Output	2 x 8W
AUDIO	Invisible Speaker	Available
	Equalizer (5 Band)	Available
	Sorround Sound	Available
	Dolby Multi Stream Decoder	MS11
	Auto Volume Lever (AVL)	Available
FEATURES	Software	Deluxe+
	Hybrid Stream (Tuner+IP)	Available
	Channel List Management	Available
	Supported Tuner Modes	DVB-T2/C/S2
	Video Coding	HEVC
	Standalone HTML-based solution	Available
	Smart Channel Listing	Available
	Auto Program Sorting	Available
	Welcome Message (Splash image)	Available
	USB Clonning	Available
	Enable/Disable Installation Menus	Available
	Multi IR Code	Available
	Auto TV Off / Auto Sleep	Available
	Anti Theft Battery System	Available
	Wake-up Alarm / Sleep Timer	Available
	USB Media Player	Available
	Smart TV features	Available
	Smart Center	Available
	Power Save mode (Energy Saving)	Available
	Teletext	Available
Electronic Program Guide	EPG Timeline Schedule	
Energy Saving	Available	
Compliance	RoHS, WEEE	

	VESA Compatible	M6 400X200
	Wall Hanging Kit	Available
	Swivel Stand	40302
CONNECTIONS	RF IN	Available
	SCART	Available
	Composite In	Available
	VGA (PC In: D-sub15)	Available (1)
	HDMI	Available (2)
	HDCP	Available (1.2)
	Digital Audio Out	Coaxial
	Headphone Out	Available
	USB	Available (1)
	CI+	Only RF
	LAN - Ethernet	Available
	WI-FI	Available
	Miracast	Available
	WIDI	Available
	DLNA	Available
	RS232	Available via Scart
	Firmware Upgrade	Available via USB
SW Update	Available via USB & LAN	
POWER	Voltage, Hz	220-240V AC 50Hz
	Consumption (Typical)	120W
	Consumption (Max)	140W
	Stand-by	0.5W<
DIMENSIONS	Dimensions w/o Stand (mm) (HxDxW)	741x63x1248
	Dimensions w/ Stand (mm) (HxDxW)	787x276x1248
	Weight w/o Stand (kg)	14,2
	Weight w/ Stand (kg)	14,5

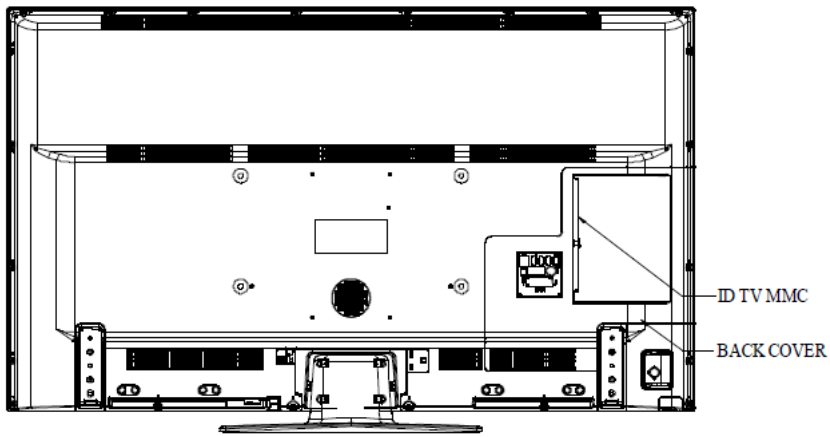
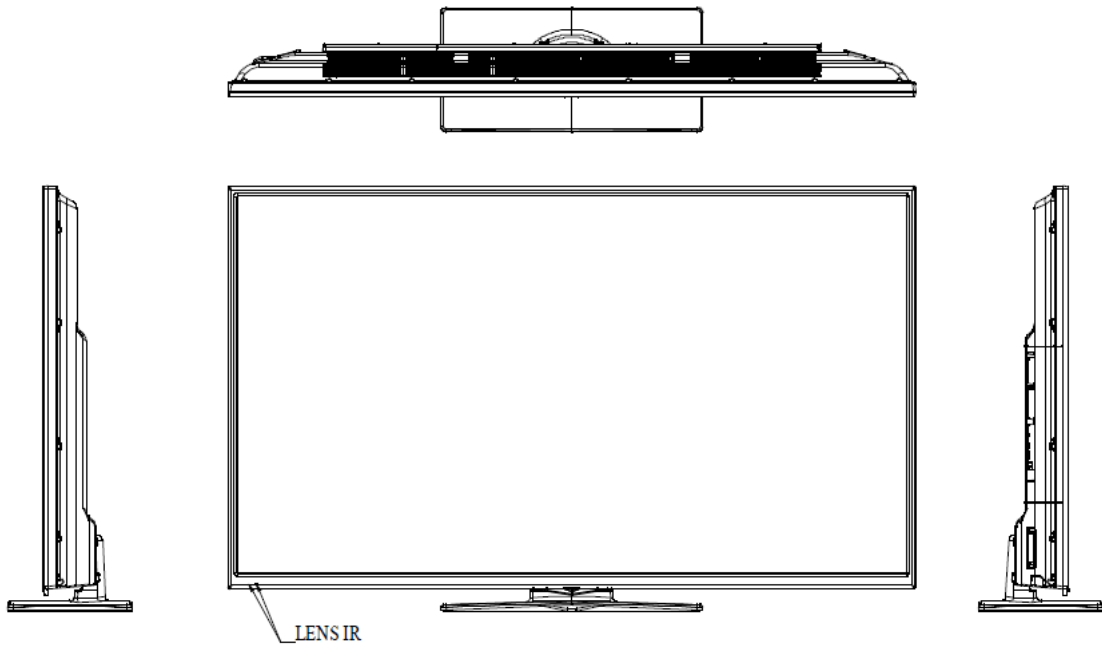
* The specifications and features are subject to change without prior notice

VIEW





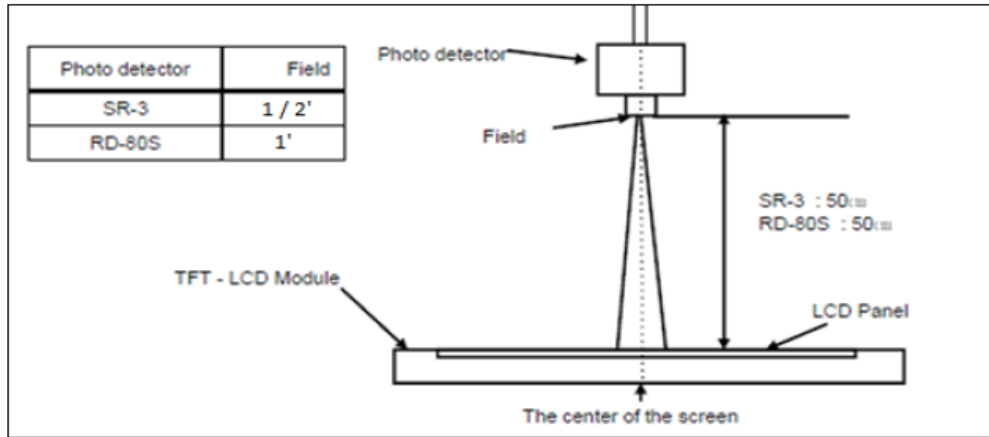
DESIGN



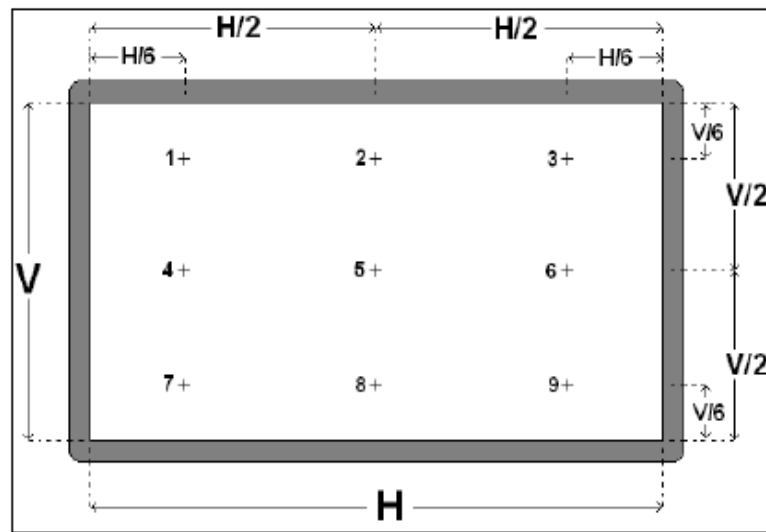
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TESTING STANDARDS

The measurement should be executed in a stable, windless and dark room 60min after lighting the back light at the given temperature for stabilization of the back light. This should be measured in the center of screen. Environment condition: $T_a = 25 \pm 2 \text{ }^\circ\text{C}$.



Definition of Test Points:



Note (1) Definition of Contrast Ratio (C/R):

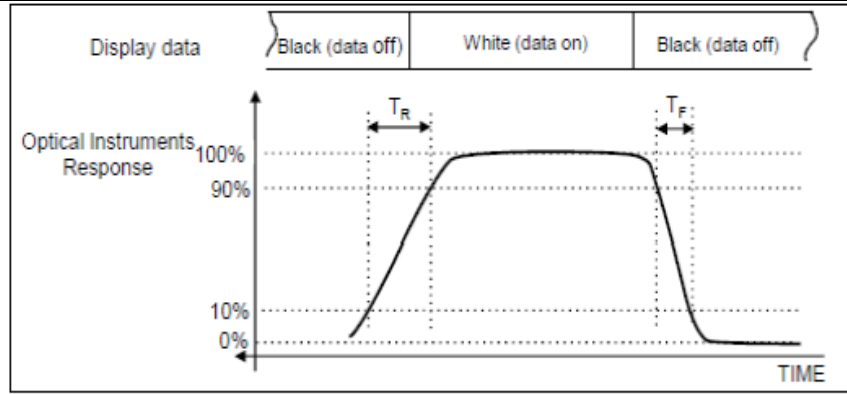
Ratio of gray max (G_{max}) & gray min (G_{min}) at the center point (5) the panel

$$\frac{C}{R} = \frac{G_{max}}{G_{min}}$$

G_{max} : Luminance with all pixels white

G_{min} : Luminance with all pixels black

Note (2) Definition of Response Time: $T_R + T_F$



Note (3) Definition of 9 points brightness uniformity:

$$Buni = 100 * \frac{(Bmax - Bmin)}{Bmax}$$

(Test pattern: Full White)

Bmax: Maximum brightness

Bmin: Minimum brightness

Note (4) Definition of Luminance of White:

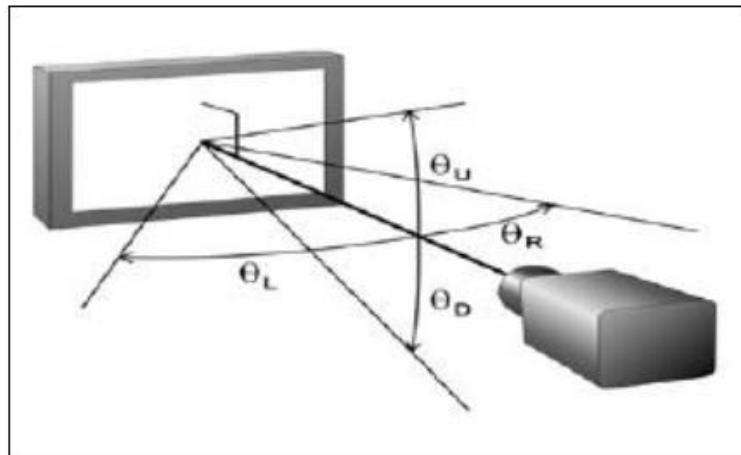
Luminance of white at center point 5

Note (5) Definition of White Color Chromaticity:

Color coordinates of White at center point 5

Note (6) Definition of Viewing Angle

Viewing angle range (C/R > 10)



**Safety IEC 60950-1: 2005+A1:2009
EN 60950-1: 2006+A11: 2009+A12:2011**

EMC

Immunity Tests	
Specification	Description
EN 55024:2010	Immunity
EN 61000-4-2:2009	Electrostatic Discharge (ESD)
EN 61000-4-3:2006+A2:2010	Radiated, radio-frequency, electromagnetic field immunity
EN 61000-4-4:2004+A1:2010	Electrical Fast Transient/Burst Immunity
EN 61000-4-5:2006	Surge
EN 61000-4-6:2009	Conducted Disturbances Induced by Radio-Frequency Fields
EN 61000-4-11:2004	Voltage Dips and Short Interruptions

Emission Test	
Specification	Description
EN 55022:2010/AC:2011 – Class B	Disturbance Voltage at the Mains Terminals (Conducted Emission)
EN 55022:2010/AC:2011 – Class B	Disturbance Voltage at the Telecommunication Terminals (Conducted Emission)
EN 55022:2010/AC:2011 – Class B	Field Strength (Radiated Emission) (1GHz-6GHz)
EN 55022:2010/AC:2011 – Class B	Field Strength (Radiated Emission) (30MHz-1GHz)
EN 61000-3-2:2006+A1:2009+A2:2009	Harmonics
EN 61000-3-3:2008	Flicker

Note EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN61000-4-8 and EN 61000-4-11 are basic standards referred from EN 55024.

According to EN 55024, EN 61000-4-8 Power Frequency Magnetic Field test is not performed since the EUT is not sensitive power frequency magnetic field.

EN 301489 – 1 V1.9.2	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301489 – 17 V2.2.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems

Reliability Test Standards

Low Temperature Test

Products must be boot up without any delay more than one minute. No abnormality on operation. There mustn't come out any electrical and functional problems.

Test Condition :

Temperature: -15 °C , Humidity: 50% , Duration: 24 hours , Mode of Operation: Power Off

High Temperature Test

After the test, product should work properly as electrical and mechanically.
No software crash, No hang up, No lock up.

Test Condition :

Temperature: 50 °C , Humidity: 90% , Duration: 72 hours , Mode of Operation: 3D Mark 2011

Life Test

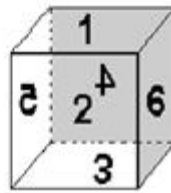
After the test Product should work properly as electrically and mechanically.
No software crash, No hang up, No lock up.

Test Condition :

Temperature: 35 °C , Humidity: 50% , Duration: 150 hours , Mode of Operation: 3D Mark 2011

Drop Test

Product should work properly and there mustn't be any crack at the cabin or any cosmetic problem. In addition, there mustn't be any major problem at the product packaging and snow boxes.



The test is performed on the packed digital products sample under following conditions;

Drop Order :

- 1- Face 3of the package
- 2- 2-3-5 corner of package
- 3- 2-5 edge of package
- 4- 3-5 edge of package
- 5- 2-3 edge of package
- 6- Face 1 of the package
- 7- Face 5 of the package
- 8- Face 6 of the package
- 9- Face 2 of the package
- 10- Face 4 of the package

Total: 10 drops

Test Condition :

Dropping height: Face 3 (Bottom surface): 55cm, Other surfaces: 40cm

Temperature: 25 ± 2 °C , Humidity: 45% ± 10

Vibration Test

Product should work properly and there mustn't be any crack at the cabin, at the solder points of chassis, at the pins of components. In addition, there mustn't be any major problem at the product packaging and snow boxes.

Direction of Vibration	Frequency of Vibration	Power Spectral Density	Sweep Time	Total Duration	Acceleration
Z	10Hz – 500Hz	0.002G ² /Hz	10min	60min	1Grms(9.81m/s ²)