

TV
2019 - 2020



VESTEL

www.vestelinternational.com



COMPANY PROFILE
2-3

GLOBAL OPERATIONS
4-5

DESIGN AND TECHNOLOGY
6-21

TV LINE-UP
22-63

TECHNOLOGICAL HIGHLIGHTS
64-87

ACCESSORIES
88-100

DESIGN AWARDS
101

SPECIFICATIONS
102-111

ADDRESSES
117





COMPANY PROFILE

Vestel City, which comprises nine plants located in Manisa, is amongst the biggest industrial complexes of the world.

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As one of the leading enterprises in Turkey, Vestel is a major player in consumer electronics, mobile technologies, household appliances, professional displays and LED lighting with renowned products, including television sets, educational, hospitality and digital signage solutions, digital set-top boxes, tablet PCs, smart phones, refrigerators, washing machines, tumble

dryers, cooking appliances, dishwashers, air conditioners, and water heaters

Leading the European market in digital products, Vestel has established agreements with the major digital television operators in Europe for the production of digital television and set-top boxes.

Total productive maintenance and the six sigma approach implemented throughout the manufacturing process improve efficiency and productivity in all areas, making Vestel a world-class manufacturer.

Vestel has an annual manufacturing capacity of 18 million television sets.

The company started built-in module system production based on assembling TVs on a glass cell, and installed robotic lines for the automation of the LED TV assembly. The complete system, named as cell-in tv-out, helps the company to increase efficiency and product quality by all means.

By investing more than 50 million US dollars in LCD panel production over the last



1.100.000 m²
Closed Production Area



35 Million
Device Production
Capacity



16.000
Employees



\$ 4 Billion
Turnover



18 Million
TV Production Capacity



Export Leader of Turkey with
\$ 2,5 Billion

few years, Vestel is proud to be the first company in Europe to realise bonding, backlight and module assembly.

Keeping up with the fast developing mobile technologies and interactivity of different devices, Vestel launched tablet PCs, smart phones and developed the Smart Center technology allowing interaction of Vestel Smart TVs with mobile devices.

R&D facilities located in Manisa, İstanbul, United Kingdom, and China employ the highest caliber engineers

to develop hardware and software solutions that provide clients with world-class quality products.

Vestel has proven its success in product design by receiving the most prestigious design awards every year from well-known industrial design organizations for a variety of products

Vestel Trade, the company responsible for the marketing and sales of Vestel products overseas, exports 73% percent of its production under leading Japanese and European brands to 155 countries.

Achieving export sales of 8.3 million units of electronics and 4.8 million units of household appliances, the company is proud to account for 91 percent of the television and 28 percent of the white goods exports in Turkey.



GLOBAL OPERATIONS

Manufacturing & Assembly Plants

TV, Set-top Boxes

Manisa, Turkey

Professional Displays, Tablet PC, Smart Phone, LED lighting

Manisa, Turkey

**Refrigerator, Washing Machine, Dishwasher, Tumble Dryer, Cooking Appliances,
Air Conditioner, Water Heater**

Manisa, Turkey



Marketing & Sales Companies

Vestel Trade, Turkey
Vestel France, France
Vestel Germany, Germany
Vestel UK, United Kingdom
Vestel Iberia, Spain
Vestel Poland, Poland

Vestel Benelux, Netherlands
Vestel CIS Ltd, Russia
Vestel Electronica, Romania
Vestel Central Asia, Kazakhstan
Vestel Electronics Gulf, Dubai

R&D Centers

Manisa, Turkey
Istanbul, Turkey
Bristol, United Kingdom
Shanghai, China

Design and Technology

Modern TV design is changing day by day with the improvements in technology. It is also subject to change in Vestel as a leading technology investor and design manufacturer. Nowadays, TVs become less visible, ultra-thin elegant designs are more integrated onto the surrounding surfaces like walls, doorways, anywhere. These designs come with extraordinary technology of high quality resolution in well-sized TVs. The design of TVs will go beyond the standards with simple beautiful cabinet and shelving, we will see the space softened by few accessories around its astonishing pictures.







OLED

You will meet not just a new TV but a new world with Vestel OLED TV. Vestel OLED TV takes you to another dimension which you have never experienced before. Experience the real contrast with self-illuminated organic pixels which enables you to feel the real darkness. This new flagship product of Vestel offers you the deepest blacks to maximize your TV entertainment pleasure. At the same time, you will be able to have the brightness and colors you see in real life through the pixels of OLED TV which could set their own brightness independently. HDR technology with Vestel's innovative product, you are starting a journey to fascinating places rather than watching TV. Without the need of a backlight, OLED TV can reach the ultra slim design which is 3.7 and welcomes you with elegance.

SIZE (mm)	X	Y	T1	T2	T3
55" OLED	3,2	3,2	4,7	45	55
65" OLED	3,2	3,2	4,7	45	55





Art TV

Forget about all your expectations from a classy TV design. New Art TV will change your criteria of elegance. It will fulfill your stylish dreams with reduced thickness and weight of ultra slim design help you to enjoy enhanced elegancy in display technology. Attractiveness of design is the key and innovative concept of TV rather than its technological features.

As the back depth thickness is very small, this different design definitely add value to costumer's viewing experience as well as adding value to your room thanks to its design elements With this differentiated boutique concept, you will feel special every time you look at your state of the art. The style of Art TV definitely aligns with your perspective of grace.

SIZE (mm)	X	Y	T1	T2	T3
65" Art	4	19,5	7,9	47	47





Frameless Skinny

With 2020 models, Vestel brings new platform with new design approaches; “modularity” and “high variability”.

Within the new industrial design conceptual base of modularity and creating high differentiation possibilities, there lies the basics of science of optic and engineering. Optic distance -which creates the depth of the backlight unit- of the new half back cover designs reduced drastically with the collaborative R&D studies to catch up with the global design trends.

Being the slimmest series in the new OD20 platform, New Frameless Skinny design is highly competitive within the market with its several versions.

Thanks to its design, OD20 metal backlight unit almost seems as edge-led model while the half back cover unit supports the visual conception.



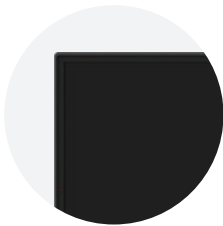


BMS Technology And Led Designs

Vestel uses own in-house design process in order to build huge amount of various TV models in different sizes and cosmetics. This system is called BMS (Built-in Module System) technology that allows supply of the cell only and rest of the materials including light filters, light-guide plates and backlight systems are separately built by Vestel. Therefore, BMS technology is the perfect supporter of flexibility in production and flexibility in defining various combinations of TV

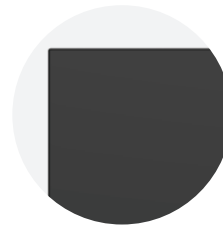
product in terms of size and cosmetic design. Thanks to BMS technology, Vestel has become expert in meeting various customer demands that makes Vestel company pioneer OEM/ODM TV manufacturer globally.

Via BMS technology, 2 main design models are applied by Vestel. These design models are segmented based on the bezel thicknesses.



Art TV

Vestel Art technology is the BMS design offered by Vestel. Bezel thickness of this design is 4 which definitely add value to costumer's viewing experience as well as adding value to your room thanks to its elegance.



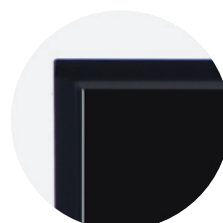
Frameless

New generation frameless family offers you completely new level of elegance. Vestel offers you less than 3mm bezel thickness with this new generation DLED technology.



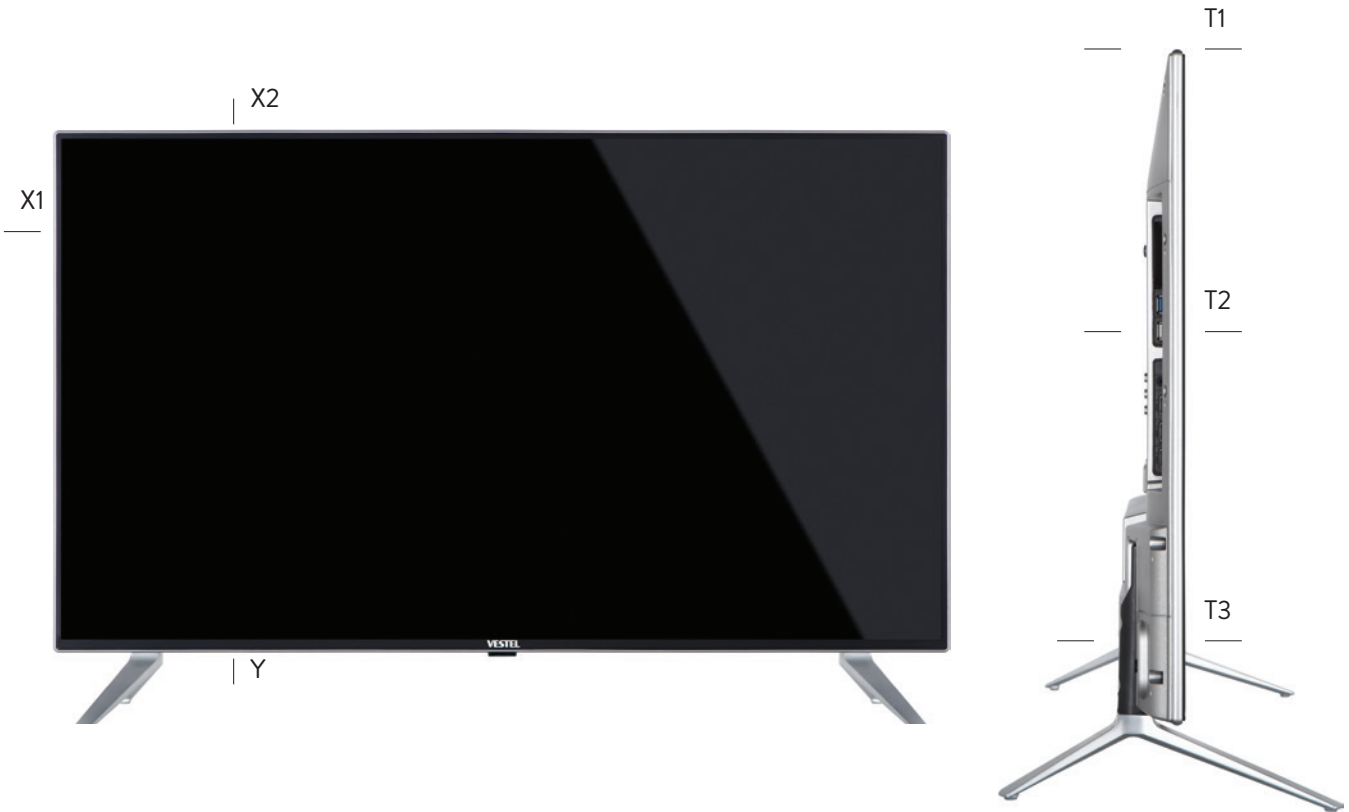
UNB (ultra narrow bezel) design

vestel UNB (Ultra Narrow Bezel) technology is the newest design segment that is offered by Vestel. UNB models are built by including front metal frame starting from 6. Moreover, UNB models are ELED and SLIM DLED systems in order to cover any advantage of ELED and DLED systems.



VNB (very narrow bezel) design

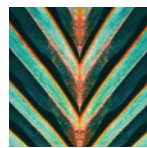
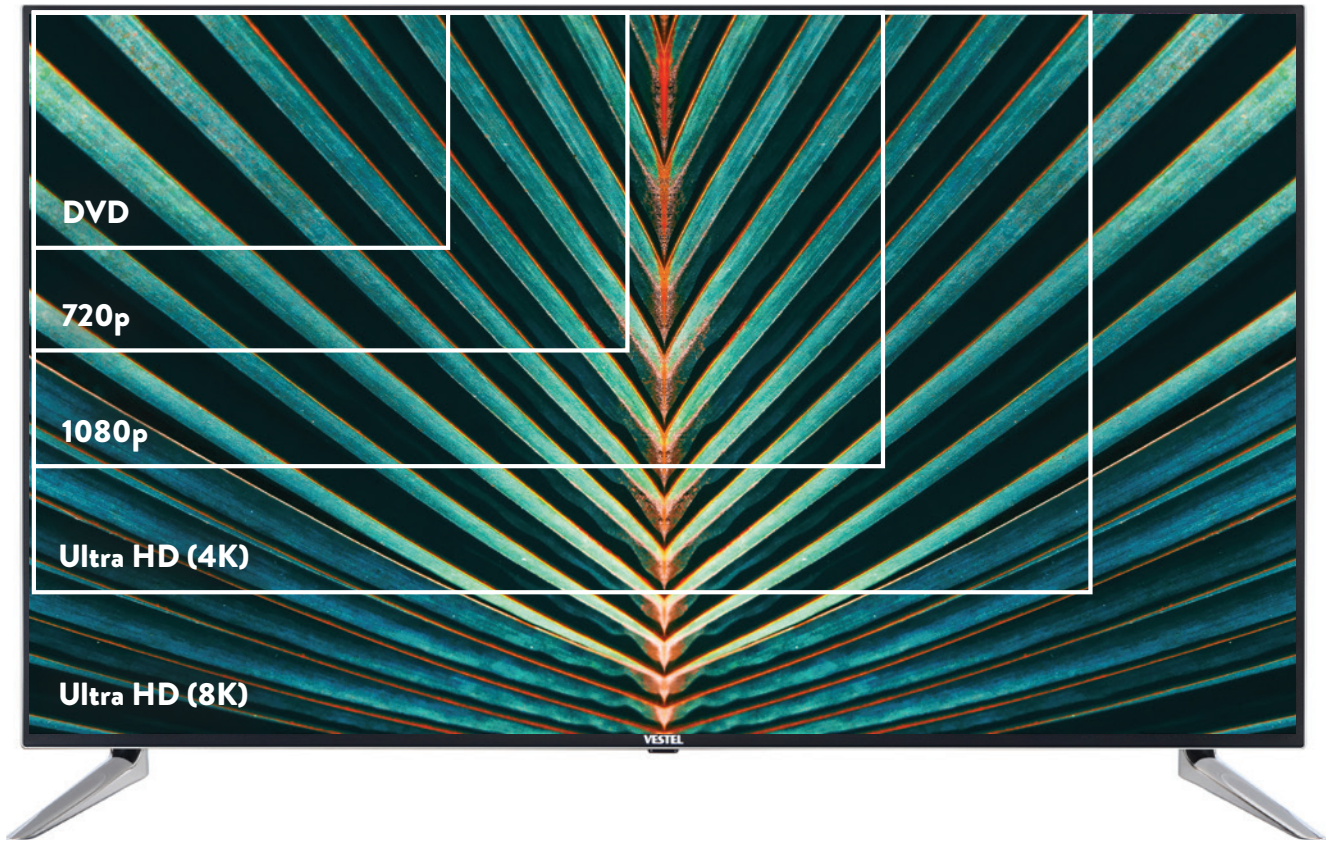
Vestel VNB (Very Narrow Bezel) technology which is another specific design subset of BMS technology allows production of TVs with plastic fronts starting from 10 to provide users very wide watching area on the screen for an amazing watching experience.



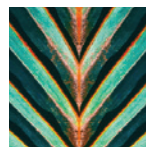
2019-2020 CABINET DIMENSIONS

SIZE		Bezel Thickness (mm)			Back Depth (mm)		
		X1	X2	Y	T1	T2	T3
ELED VNB	22"	18,5	18,5	28,0	17,0	35,0	43,0
	24"	13,0	13,0	23,4	20,4	35,0	61,0
	32"	13,5	13,5	22,0	24,5	36,0	67,0
ELED UNB	43"	5,9	5,9	10,5	8,2	32,0	52,0
	49"	5,9	5,9	11,0	8,3	32,0	52,0
	55"	7,0	7,0	11,8	8,5	32,5	46,0
DLED VNB FHD	32"	13,5	13,5	23,0	26,0	59,0	89,0
	40"	13,5	13,5	22,0	26,0	59,0	89,0
	43"	13,5	13,5	22,0	26,0	64,0	93,0
	49"	15,0	15,0	25,0	26,0	59,0	89,0
DLED VNB UHD	43"	14,0	14,0	23,5	24,5	59,5	79,0
	49"	15,6	15,6	25,9	24,5	59,5	79,0
	50"	15,6	15,6	25,9	24,5	59,5	79,0
	55"	15,6	15,6	26,9	24,5	59,5	79,0
DLED UNB UHD	40"	5,5	5,5	9,5	22,5	57,0	77,0
	43"	5,9	5,9	9,5	22,5	57,0	77,0
	49"	5,9	5,9	9,5	22,5	57,0	77,0
	50"	5,9	5,9	9,5	22,5	57,0	77,0
	55"	7,0	10,5	9,5	22,5	57,0	77,0
	65"	7,0	10,5	9,5	22,5	57,0	77,0

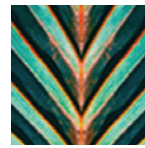
SIZE		Bezel Thickness (mm)		Back Depth (mm)		
		X	Y	T1	T2	T3
DLED VNB UHD	43"	11,7	20,0	18,5	42,5	73,5
	49"	12,0	20,0	18,5	42,5	73,5
	50"	14,5	21,1	18,5	42,5	73,5
	55"	12,7	20,8	18,5	42,5	73,5
DLED HVNB	24"	12,7	22	20,9	41	62,9
	32"	13,8	20,4	12,5	50,2	77,8
	40 INX	12,8	18,2	15,4	55,2	83,9
	40"	11,2	16,6	15,4	55,2	83,9
	43"	12,2	17,6	15,4	52,7	81,5
	49"	12,1	17,7	15,5	52,7	84,2
	50"	13,3	18,6	15,5	56,2	84,3
	55"	12,5	17,4	12,8	52,5	81,2
58"	13,7	17,5	15,7	52,9	84,5	
65"	13,3	18,9	15,7	47,4	74,9	



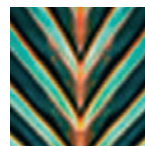
UHD - 8K
7680x4320



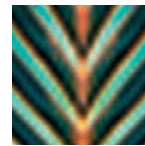
UHD - 4K
3840x2160



1080P
1920x1080



720P
1280x720



DVD
720x480

UHD TV

UHD, the abbreviation for 'Ultra High Definition', is the most popular issue in TV business worldwide. Basically, UHD TV provides resolution of 3840x2160 (4K:2K) which equals to 4 times resolution of Full HD TV by doubling the pixel count of the Full HD TV both horizontally and vertically.

Vestel UHD TV offers an extreme watching experience with sharper and more colorful pictures thanks to higher pixel count. You will catch every detail on every corner of the screen thanks to stunning image production. Moreover, you will feel like living in a colorful virtual world while watching a scene on your UHD screen. While watching your

favorite movie, watching a sports event or your favorite TV series delusive events are brought to your living room to fulfill your imaginations.

Thanks to its state of art industrial design and lifelike colorful image presentation, you will feel like that you are surrounded by paintings of famous artists in an art gallery while Vestel UHD TV is around.

Better Picture Quality



MEMC

Algorithm to overcome the motion blur effect. MEMC technology detects movement patterns of the objects and apply interpolation between pixels, providing much more smooth video experience.

HDR 10+

HDR10+ works differently than HDR10. It sends dynamic metadata, which allow TVs to set up colour and brightness levels frame-by-frame. This makes the picture look realistic. HDR10 aims to produce 1000 nits of peak brightness, whereas HDR 10+ supports up to 4000 nits.

Standard Technology



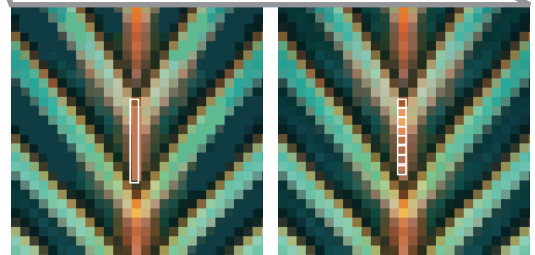
HDR Technology





Super Resolution

Algorithm to solve the artifacts of low resolution video upscaling.



Micro Dimming

Algorithm for better contrast and vivid picture quality. This is provided by deep analysis of each pixels, realizing dark and bright regions and applying separate backlight.

Standard Technology



WCG Technology





DOLBY VISION

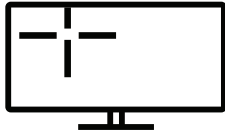
What is Dolby Vision?

VESTEL & Dolby Vision cooperation transforms the way you experience movies, TV shows, and games with incredible brightness, contrast, and color that bring entertainment to life before your eyes. By fully leveraging the maximum potential of new cinema projection technology and new TVs' display capabilities, Dolby Vision delivers high-dynamic-range (HDR) and wide-color-gamut content. The result is a refined, lifelike image that will make you forget you are looking at a screen. Current consumer

video delivery and cinema standards are based on the limitations of old technologies and require altering the original content before it can be reproduced for playback—dramatically reducing the range of colors, brightness, and contrast from that captured by modern cameras. Dolby Vision changes that, giving creative teams the confidence that images will be reproduced faithfully on TVs, PCs, and mobile devices that feature Dolby Vision.



Why Dolby Vision?



Refined Detail

Refined detail helps reveal the nuanced textures and patterns of our world on the screen through the precise use of expanded color and contrast ranges.



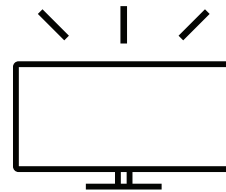
Expanded Contrast

Expanded contrast uses the much wider range of brights to darks to more closely capture the look of the real world, such as when bright shafts of light come streaming through a window into a dark train station.



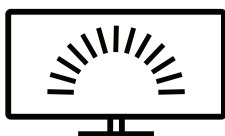
Deep Darks

Deep darks provide a new level of richness and precision that makes every scene look more real and nuanced, helping you uncover secrets in the shadows or see the full depth of night skies.



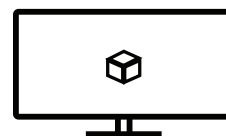
Astonishing Brightness

Brightness blazes from the screen more brightly than today's standard TV sets allow while maintaining lifelike color and detail, so you can see the fiery flash of an explosion as well as the true beauty of a warm sunset.



Ultravivid Colors

Ultravivid colors display many more hues across the full brightness range — some never before seen on standard televisions — to show everything from the most intense neon lights to the subtlest shades of flowers to the true red of a London double-decker bus.



Enhanced Dimensionality

Enhanced dimensionality emerges from the picture, with more lifelike forms that have realistic shadows and crisp edges to impart a subtle but convincing three-dimensional feel.

DOLBY ATMOS[®]

Dolby Atmos Ecosystem



Content

Dolby has built relationships with studios and creatives



Creation Tools

Spec mixing studios integrated Atmos into content creation



Cinema

More than 3200 screens and 360+ Dolby Cinemas have Atmos



Distribution Tools

HW & SW tools and audio codecs created for delivery



Distribution

Atmos enabled on linear, VoD and OTT services



Playback

Device manufacturers decode codecs for the Atmos experience

A consumer can experience Dolby Atmos in the cinema and get that same Dolby Atmos experience in the home like no other sound solution.



Dolby Atmos for TVs

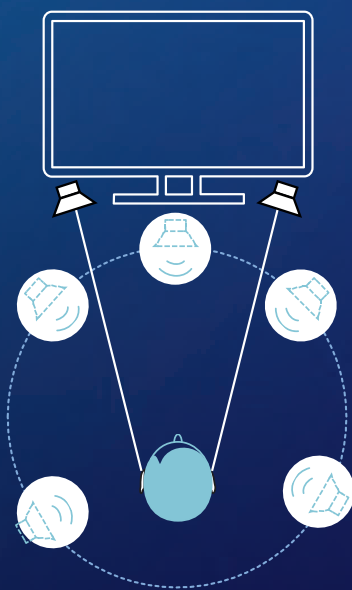
A TV with front or down-firing stereo speakers using Dolby Atmos audio processing will provide breathtaking sound that has impressive clarity, richness, detail, and depth.

DOLBY AUDIO™

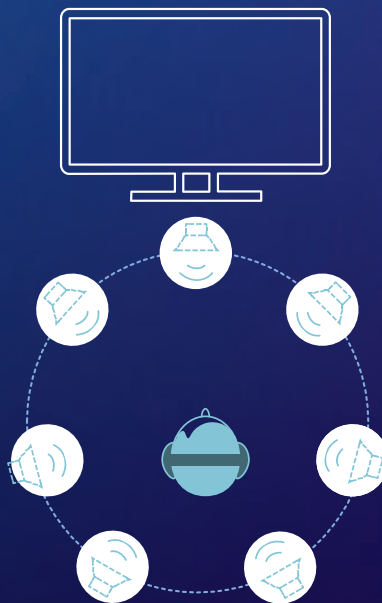
DAP Device Processing

Improves the audio experience for speaker playback.

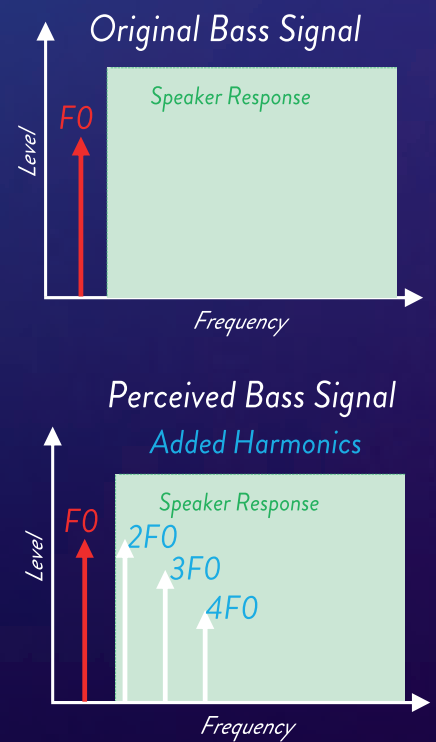
Speaker Virtualizer



Headphone Virtualizer



Virtual Bass



Dolby Audio Processing Engine

Dolby Audio Processing (DAP) is a suite of post-processing technologies designed to improve the audio playback experience on a TV using TV speakers.

Surround Virtualizer + Upmixer

Volume Leveler

Dialogue Enhancement

Bass Enhancement and Virtual Bass

Speaker Tuning

Media Intelligence



STAND DESIGNS

Single Neck And Twin-Stand Design

Vestel designs own TV stands by applying creative design process. Applying the latest unique design trends, Vestel TV is the representative of elegance with its huge amount of stylish stand design options. Including many different trendy stand designs, Vestel TV stands are designed and classified as two

main categories: Single-Neck and Twin Stands.

Single-neck and twin-stand options make Vestel flexible to use both concepts to form different combinations of TV lineups. Using these options, Vestel TVs provides different look matching with the environment that TV stands in.







TV Line-up

In terms of design and technology, Vestel offers considerably wide lineup range in order to meet broad expectations of people from a TV. One of the most popular technologies, such as UHD TV arises with elegant OLED design at the top of this lineup as it reflects the strength and quality of Vestel TV lineup. Moreover, elegant slim models including ultra narrow bezel designs, quality metal applications or fashionable stand designs are all positioned in attractive lineup of Vestel. Flexibility, design capability and know-how of high technology allow Vestel to offer the most suitable product for your demand that fits your personal delight as well.

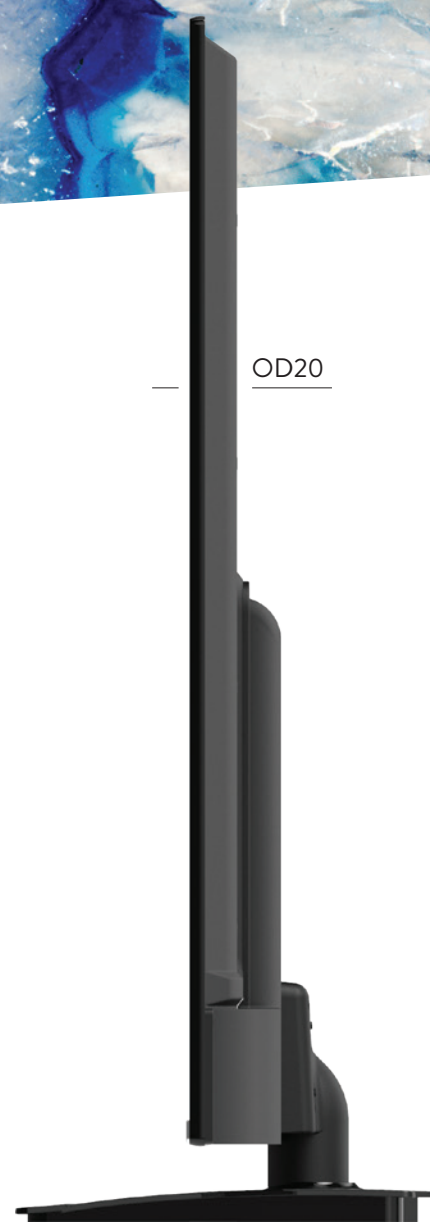
FRAMELESS SKINNY



With 2020 models, Vestel brings two new platforms with new design approaches; "modularity" and "high variability".

Within the new industrial design conceptual base of modularity and creating high differentiation possibilities, there lies the basics of science of optic and engineering.

Optic distance -which creates the depth of the backlight unit- of the new half back cover designs reduced drastically with the collaborative R&D studies to catch up with the global design trends.



OD20

Being the slimmest series in the new OD20 platform, XX660 is highly competitive within the market with its several versions.

Thanks to its design, OD20 metal backlight unit almost seems as edge-led model while the half back cover unit supports the visual conception.

FRAMELESS





OD40



XX650, OD40 member of the new platform, is beyond its rivals with its half back cover design and modular bottom frame designs creating differentiation for each versions.



x x 6 6 1

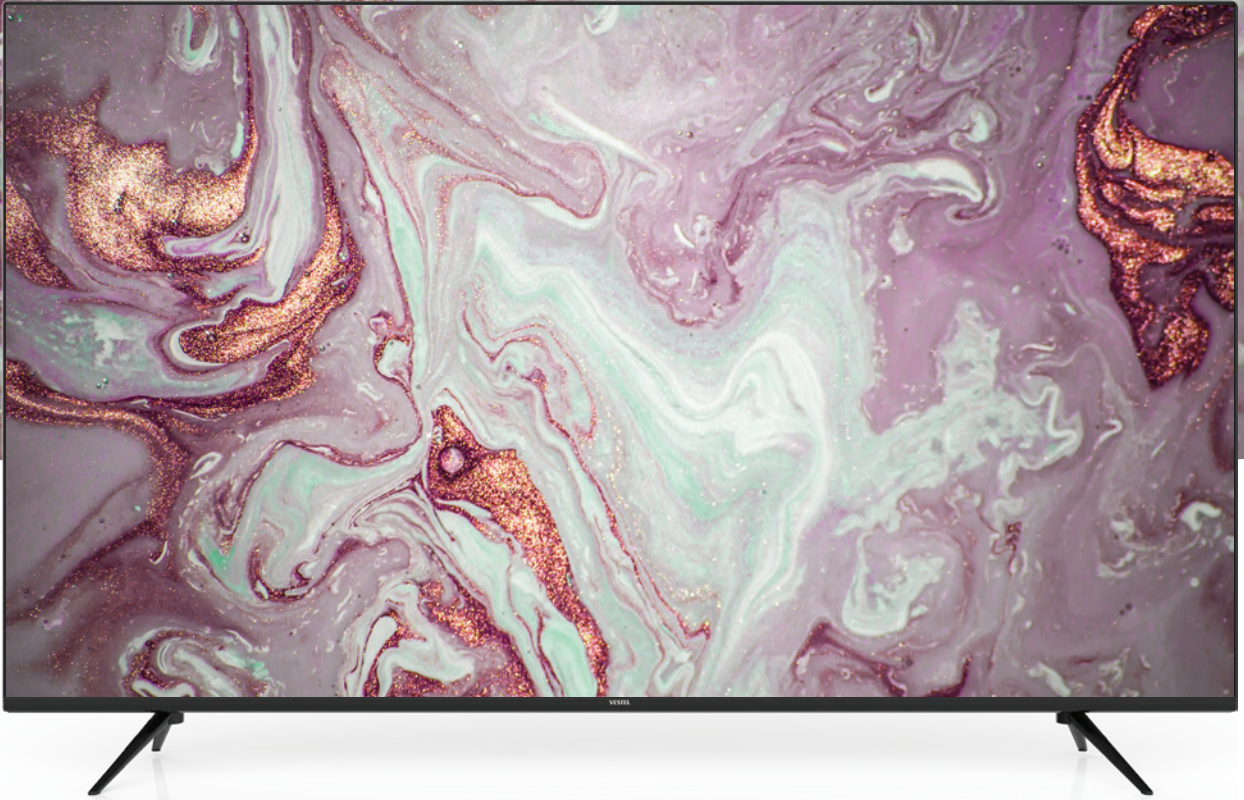
XX661 DLED Frameless TV is a high end yet affordable product with borderless frame design. Metal half back cover, assembly details and the premium finishing of product are beyond the quality perception expected from any product of this segment. Cosmetic lens is inspired by the latest design trends, offering in mold texture finishes enhanced with Premium hotstamp area.



Available Sizes

D-LED 32", 43", 50", 55", 58", 65"





x x 6 6 2

XX662 DLED Frameless TV is a high end yet affordable product with borderless frame design. Metal half back cover, assembly details and the premium finishing of product are beyond the quality perception expected from any product of this segment. Cosmetic lens is inspired by the latest design trends, offering in-mold texture finishes with recent repetitive line slim line trend.



Available Sizes

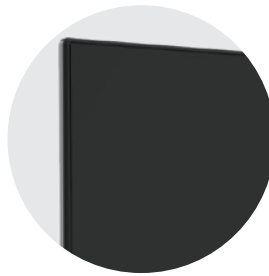
D-LED 32", 43", 50", 55", 58", 65"





x x 6 6 3

XX663 DLED Frameless TV is a high end yet affordable product with borderless frame design. Metal half back cover, assembly details and the premium finishing of product are beyond the quality perception expected from any product of this segment. Cosmetic lens is inspired by the latest design trends, offering glossy and matte finishes on the front as well as hotstamp finishes.



Available Sizes

D-LED 32", 43", 50", 55", 58", 65"





x x 6 6 4

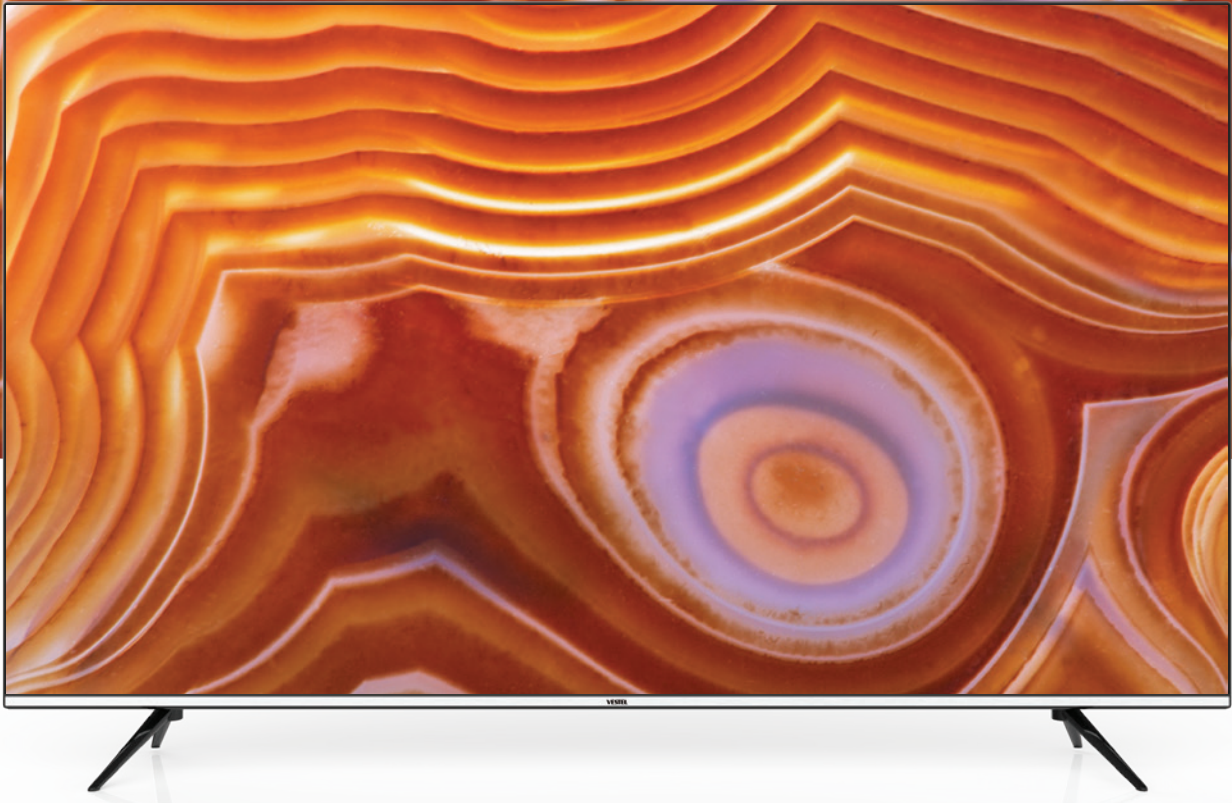
XX664 DLED Frameless TV is a high end yet affordable product with borderless frame design. Metal half back cover, assembly details and the premium finishing of product are beyond the quality perception expected from any product of this segment. Cosmetic lens is inspired by the latest design trends, offering glossy and matte finishes on the front with an elegans sleek look.



Available Sizes

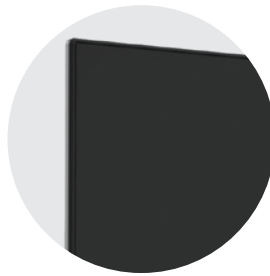
D-LED 32", 43", 50", 55", 58", 65"





x x 6 6 5

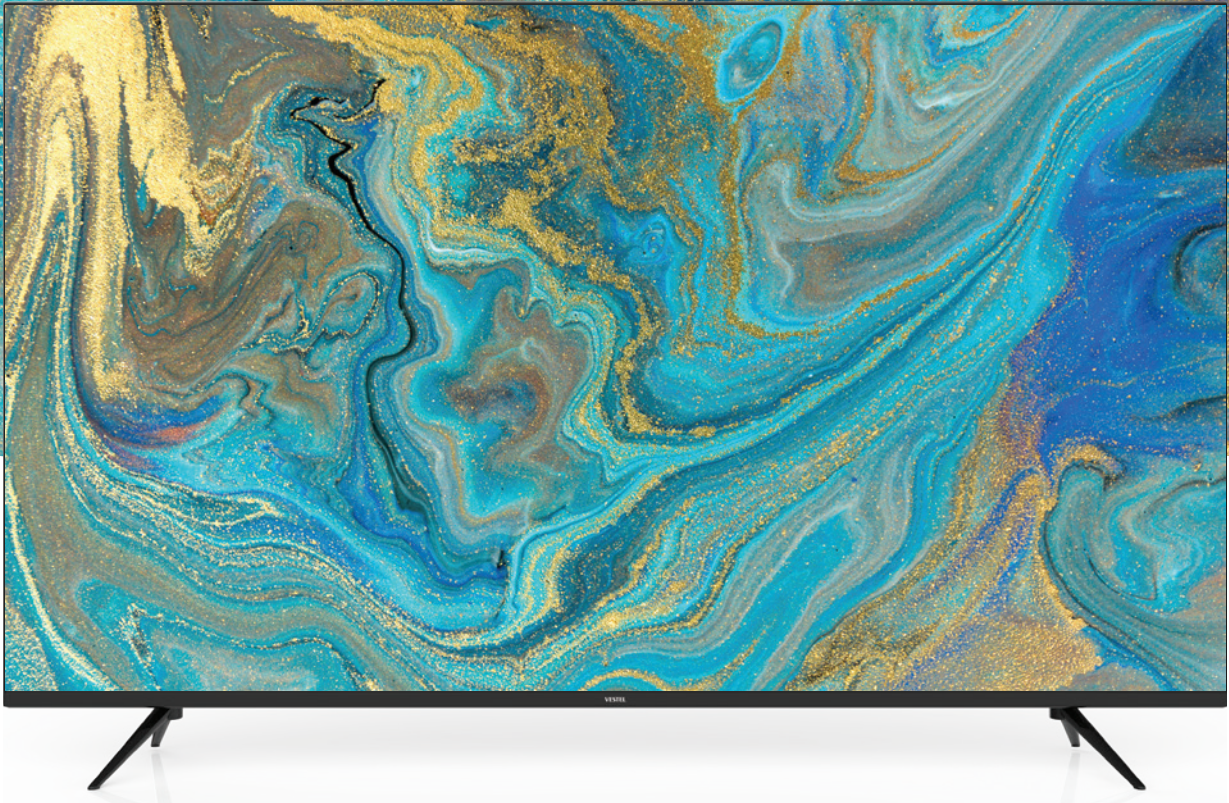
XX665 DLED Frameless TV is a high end yet affordable product with borderless frame design. Metal half back cover and metallic cosmetic lens provides a rich look. Assembly details and the premium finishing of product are beyond the quality perception expected from any product of this segment.



Available Sizes

D-LED 32", 43", 50", 55", 58", 65"





x x 6 6 6

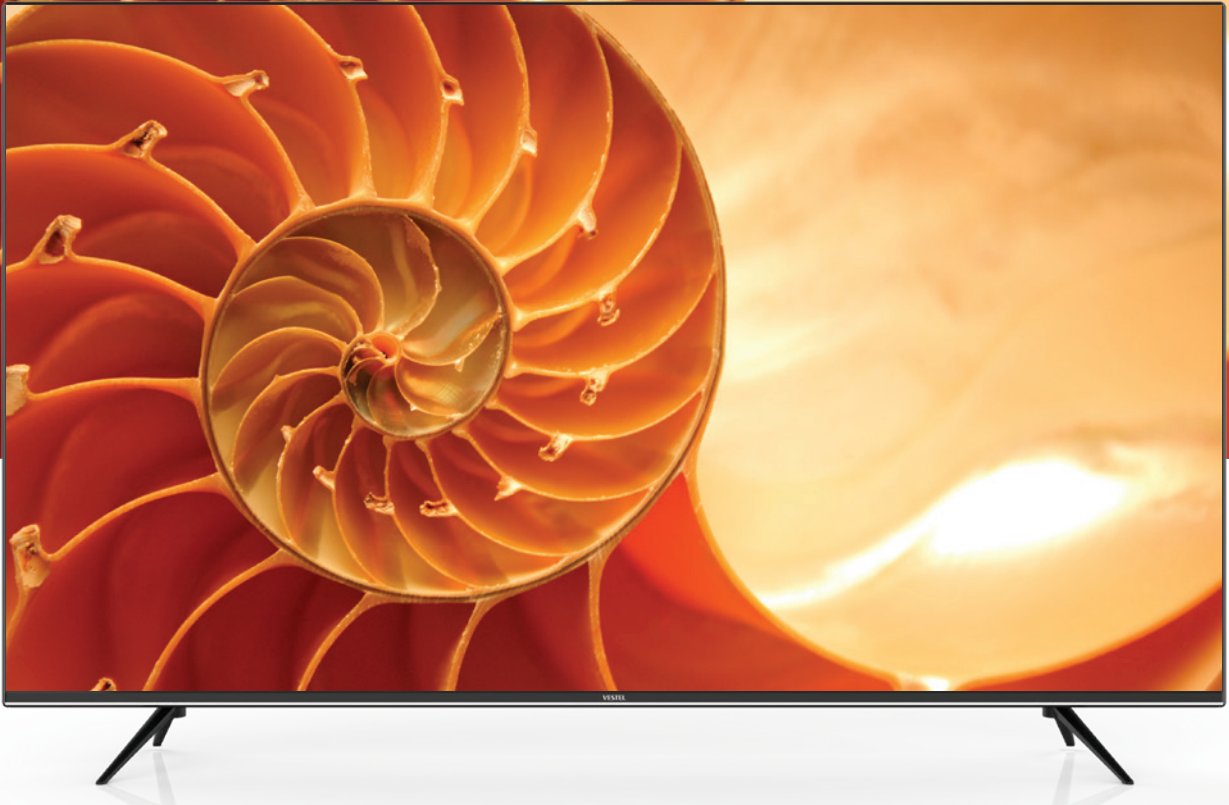
XX666 DLED Frameless TV is a high end yet affordable product with borderless frame design. Metal half back cover, assembly details and the premium finishing of product are beyond the quality perception expected from any product of this segment. Cosmetic lens is inspired by the latest design trends, offering glossy and matte finishes on the front.



Available Sizes

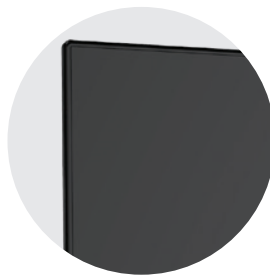
D-LED 32", 43", 50", 55", 58", 65"





x x 6 5 1

XX651 DLED Frameless TV is an affordable yet rich looking TV with borderless frame design. Metal half back cover and hotstamp cosmetic lens offers a high end finish product with very affordable prices . Assembly details and the premium finishing of product are beyond the quality perception expected from any product of this segment.



Available Sizes

D-LED 32", 43", 50", 55", 58", 65"





x x 6 5 2

XX652 DLED Frameless TV is an affordable yet rich looking TV with borderless frame design. Metal half back cover offers a high end finish product with very affordable prices . Assembly details, matte&gloss finishes on the design and the premium finishing of product are beyond the quality perception expected from any product of this segment.



Available Sizes

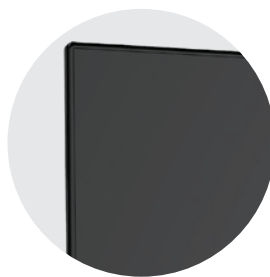
D-LED 32", 43", 50", 55", 58", 65"





x x 6 5 3

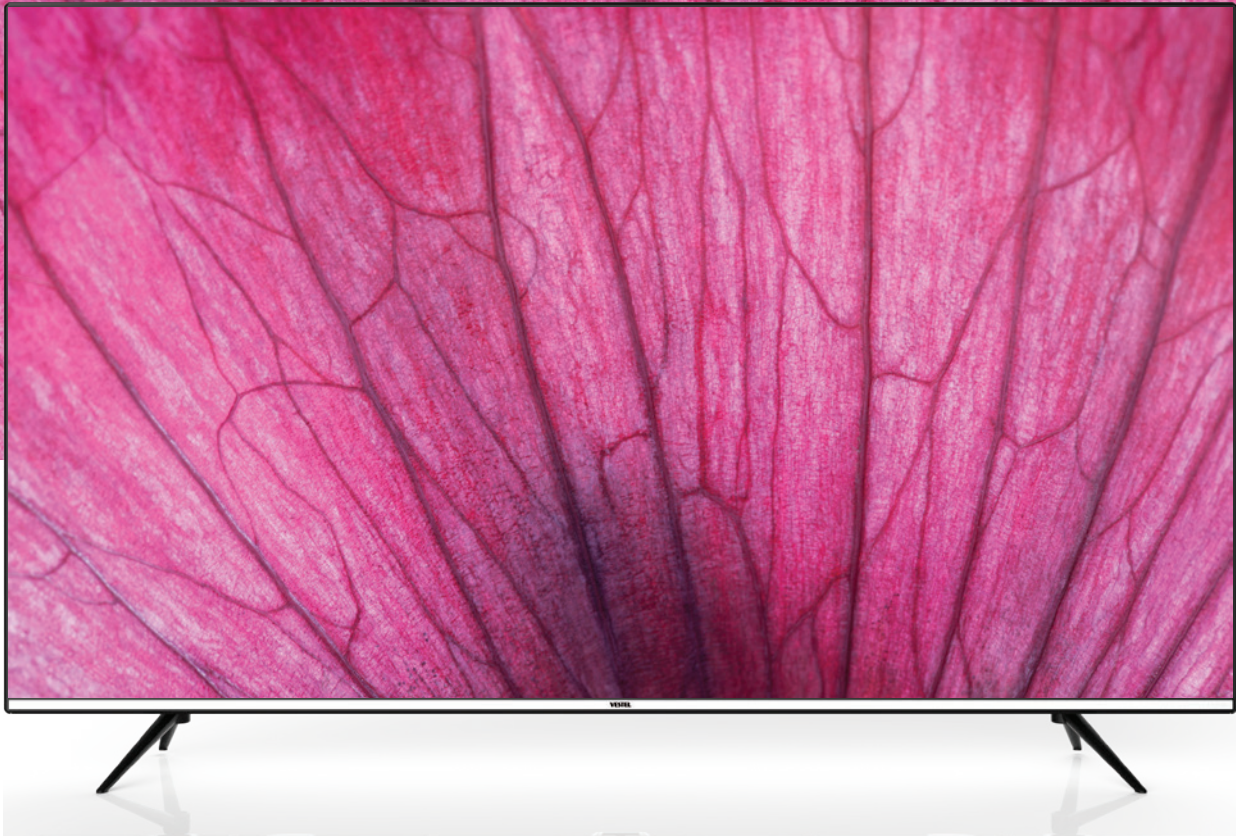
XX653 DLED Frameless TV is an affordable yet rich looking TV with borderless frame design. Metal half back cover and trendy cosmetic lens with metallic hotstamp feature offers a high end finish product with very affordable prices . Assembly details as well as premium finishing of product is beyond the quality perception expected from any product of this segment.



Available Sizes

D-LED 32", 43", 50", 55", 58", 65"





x x 6 5 4

XX654 DLED Frameless TV is an affordable yet rich looking TV with borderless frame design. Metal half back cover and glossy&matte cosmetic lens offers a high end finish product with very affordable prices . Assembly details and the premium finishing of product are beyond the quality perception expected from any product of this segment.



Available Sizes

D-LED 32", 43", 50", 55", 58", 65"





x x 6 5 5

XX655 DLED Frameless TV is an affordable yet rich looking TV with borderless frame design. Metal half back cover and metallic cosmetic lens offers a high end finish product with very affordable prices . Assembly details and the premium finishing of product are beyond the quality perception expected from any product of this segment.

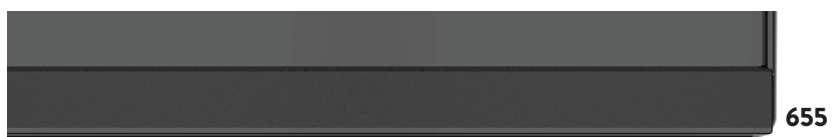
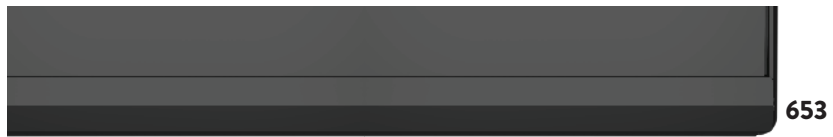


Available Sizes

D-LED 32", 43", 50", 55", 58", 65"



FRONT DESIGN OPTIONS





x x 5 5 9



Special hotstamped area with logo area differentiation creates a high customization.

Available Sizes

D-LED 32", 43", 50", 55"





x x 5 5 8



Tiny hole pattern creates a visual deception for the bottom frame area with strong differentiation.

Available Sizes

D-LED 32”, 43”, 50”, 55”





x x 5 5 5



Thin silver hot-stamp at the bottom frame highlights the brand

Available Sizes

D-LED 24", 32", 43", 50", 55"





x x 5 5 4



Matte and glossy surface section draws attention and creates the thickness deception.

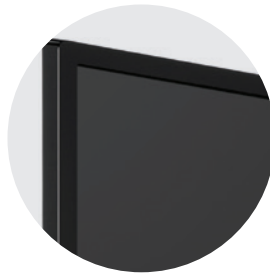
Available Sizes

D-LED 24", 32", 43", 50", 55"





x x 5 5 3



Special area left at the bottom frame is appropriate for several hot-stamp variations for differentiation.

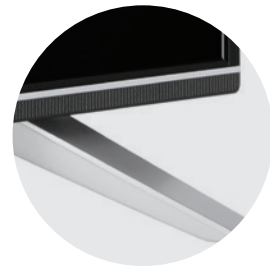
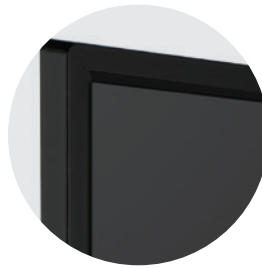
Available Sizes

D-LED 24", 32", 40", 43", 50", 55", 58", 65"





x x 5 5 2



Linear hot-stamp area including the brand position is located on the special textured at the bezel bottom.

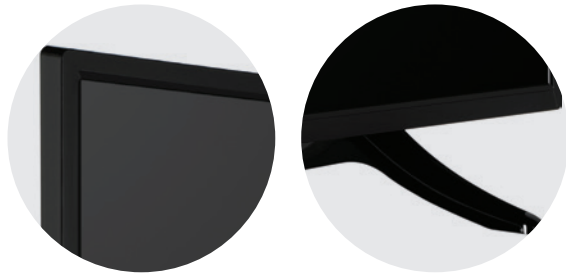
Available Sizes

D-LED 24", 32", 40", 43", 49", 50", 55", 58", 65"





x x 5 5 1



The special triangular cut edged hot stamp area is available for differentiation with several hot-stamp options.

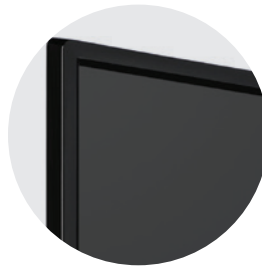
Available Sizes

D-LED 24", 32", 40", 43", 50", 55", 58", 65"





x x 5 5 0



Plastic high gloss fully flat cabinet suitable for matte & gloss coloring options.

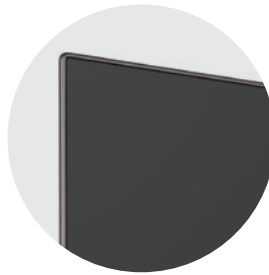
Available Sizes

D-LED 24", 32", 40", 43", 50", 55", 58", 65"





OLED



Super Slim body with thin high gloss metal crame with special texture. OLED cell is used with thinnest bezel.

Available Sizes

D-LED 55", 65"





ART TV



Super slim body with thin high gloss black frame.
LED cell line-ups thinnest cabinet.

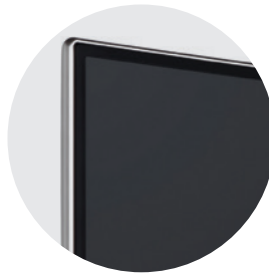
Available Sizes

E-LED 65"





x x 4 1 5



Rounded plastic frame with trendy section with several mass customization options.

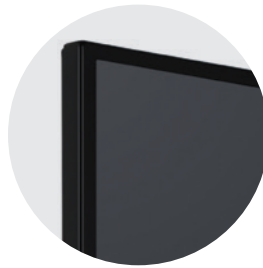
Available Sizes

E-LED 40", 43", 49", 55"





7 5 4 0 0



XL sized TV with black frame design.

Available Sizes

D-LED 75"





x x 4 0 5



High gloss plastic frame with slim&flat-cut section which is suitable for several surface finishing applications.

Available Sizes

E-LED 43", 49", 55"



AVAILABLE LENSES



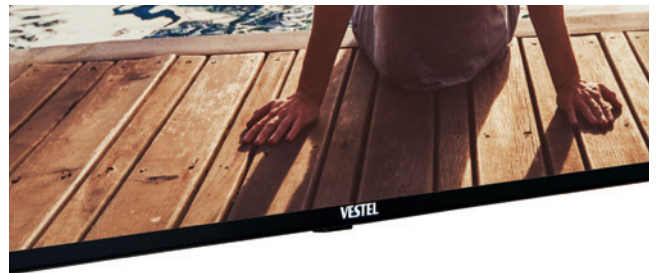
CL406



CL407



CL408



CL49



x x 4 0 0



Ultra narrow bezel design with niche design details for middle range. Chrome coated lens design with triangular form in the middle for logo placement and IR receiver.

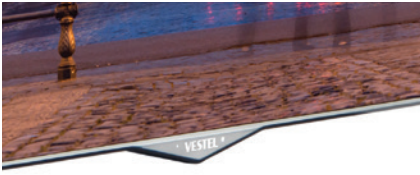
The main structure of the UNB TV also allows for building a wide range of design pool consisting of several lens options.

Available Sizes

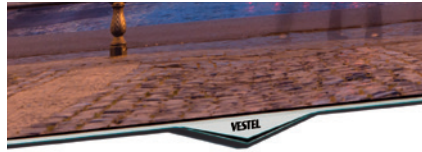
D-LED 43", 49", 50", 55", 65"



AVAILABLE LENSES



CL300



CL301



CL302



CL303



CL304



CL306



CL308



CL312



CL314



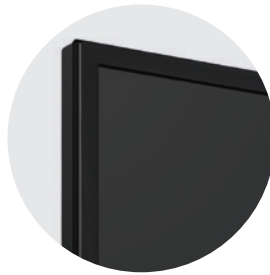
CL316



CL318



x x 5 0 7



Plastic Front cabinet with a bezel slimmer than 11mm. Glossy black front cabinet with extruded logo area at bottom bezel.

Available Sizes

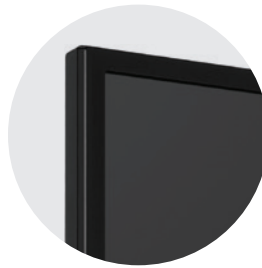
E-LED 22", 24"

D-LED 24", 32", 43", 49", 50", 55"





x x 5 0 6



Plastic Front cabinet with a bezel slier than 11.
Glossy black front cabinet with angled logo
area at the bottom of bezel.

Available Sizes

E-LED 22", 32"

D-LED 24", 32", 43", 49", 55"





x x 5 0 5



Plastic Front cabinet with a bezel slimmer than 11mm. Glossy black front cabinet has triangular section which plays with conception of depth in different ways.

Available Sizes

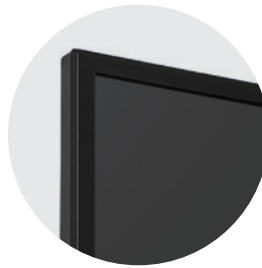
E-LED 22", 24"

D-LED 24", 32", 38.5", 39", 40", 43", 49", 55"





x x 5 0 3



Plastic Front cabinet with a bezel slimmer than 11mm. Glossy black front cabinet with thin textured recess area at the bottom of bezel.

Available Sizes

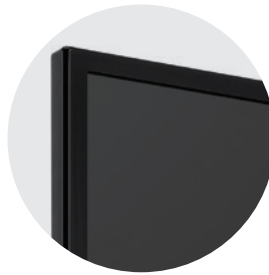
E-LED 22", 24"

D-LED 24", 32", 39.5", 40", 43", 49", 50", 55"





x x 5 0 2



Glossy black front cabinet with a partial hot stamp area at the middle bottom of bezel.

Available Sizes

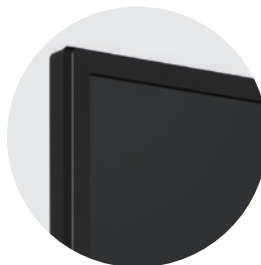
E-LED 22", 24"

D-LED 24", 32", 38.5", 39", 39.5", 40", 43", 49", 50", 55"





x x 5 0 1



Plastic Front cabinet with a bezel slimmer than 11mm. Glossy black front cabinet with thin silver brushed area at the bottom of bezel.

Available Sizes

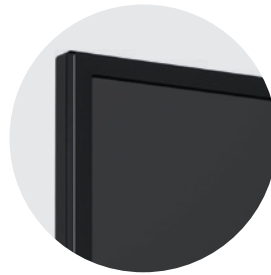
E-LED 22", 24"

D-LED 24", 32", 39.5", 40", 43", 49", 50", 55"





x x 5 0 0



Glossy black front cabinet with basic flat section appropriate for different color coating.

Available Sizes

D-LED 38.5", 43", 49", 50", 55"



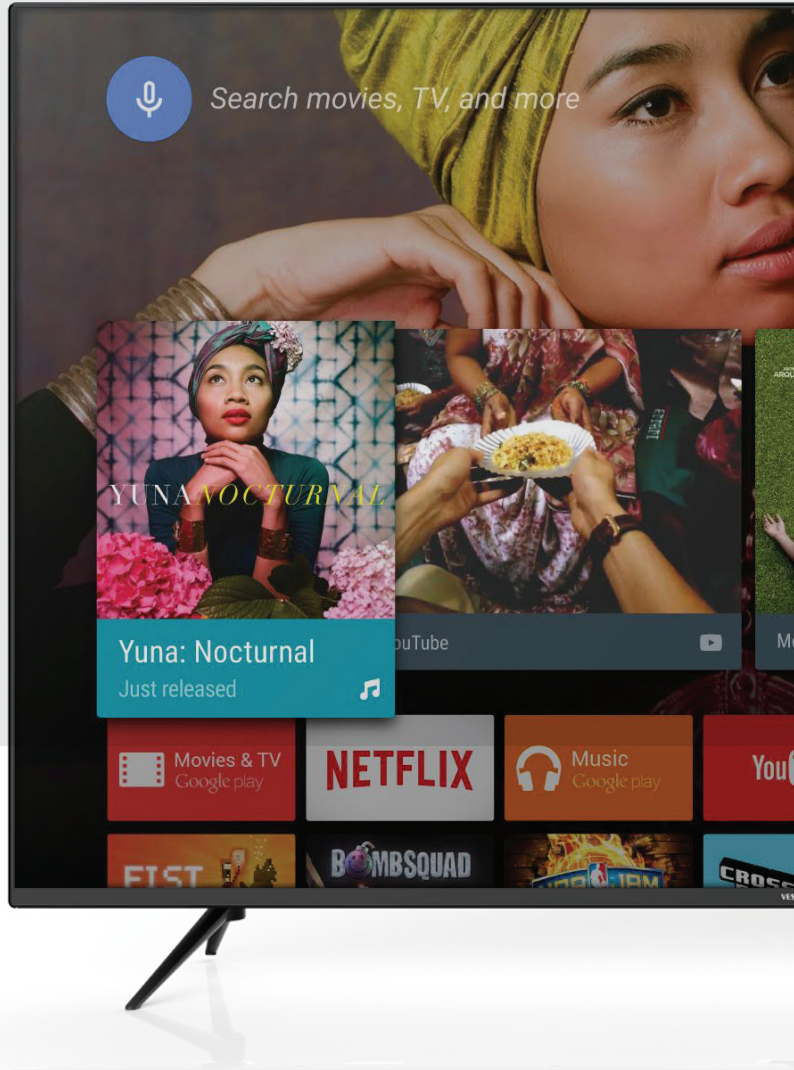


Technological Highlights

Vestel offers TV models that include the latest technology thanks to its strong R&D capabilities. Vestel Smart TV that includes most popular global contents, specific attractive apps and starring TV features are all presented in broad lineup of Vestel. Moreover, Vestel is expert of multiscreen technologies as wireless display technologies are supported by Vestel Smart Center app that is offered in mobile devices in order to achieve second screen activities simultaneously with Vestel TV. You will be the master of technology as Vestel brings fantastic features into your home..







androidtv

Android TV

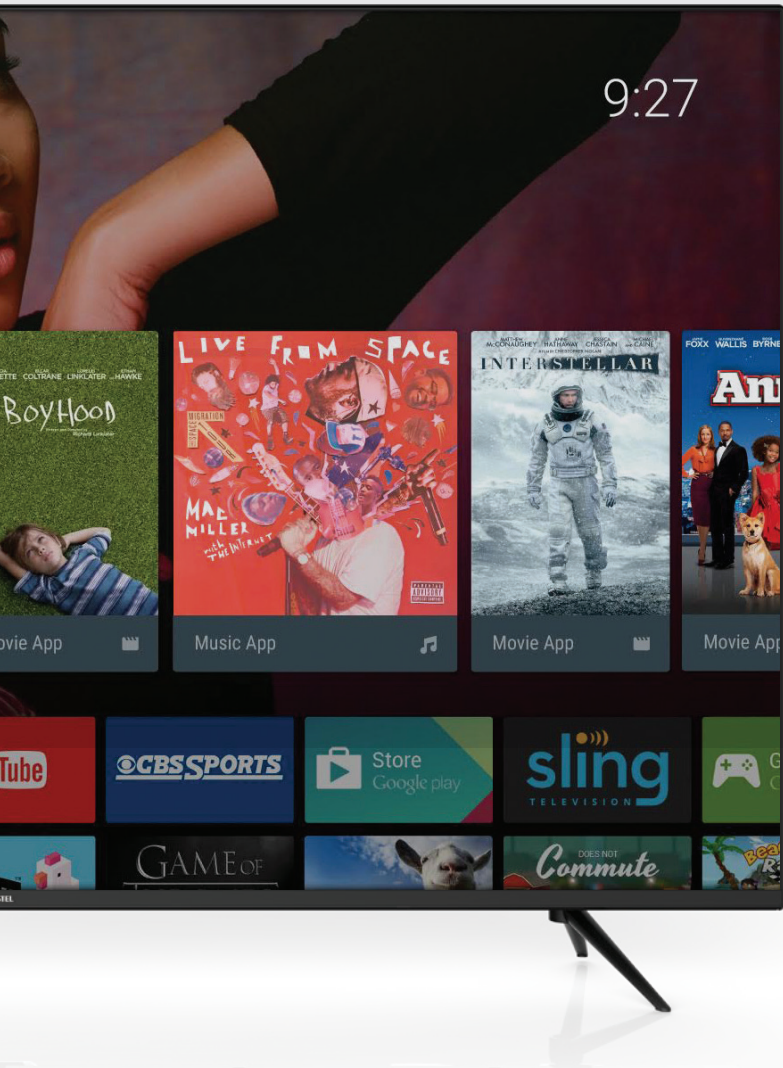
As one of the leading manufacturers of the new version of Android TVs running on Android P Operating System, Vestel is proud to announce its commitment to the Android ecosystem.

Android TV brings content to the forefront of the TVs and allows for easy discovery and consumption of OTT content with its built-in Google Assistant.

Android TVs are going to get steady security updates and version upgrades within the 3 years from their

development. This will assure our customers to always access the new improvements without the need to replace their products.

With their Android TVs Integrated with the Android ecosystem, customers will be able to control their smart home devices through their TVs and share their Android phone screens to their TVs with the integrated Chromecast support.



Voice Enabled BT Remote | Available on UHD models | starting Q3-2019



Secure & up-to date



Simple



Secure & up-to date



Comprehensive Content

CONTENT

- Netflix
- Prime Video
- YouTube
- Google Play Movies
- Google Play Music
- 3000+ apps thru Google Play

USAGE

- TV Control thru voice
- Voice Search (via BT RC)
- Google Assistant (in selected countries)
- Works with Android devices
- Built-in Chromecast



AI on TV



AI on Sound

Smart AVL

Leverage of the sound after 22:00

Dolby Audio

Normalizes loudness for all content to the same volume, identifies the location of dialogue and improves intelligibility easier to understand and also automatically selects the appropriate audio profile based on the content.



AI on Video

Smart Detection

Detecting the scene and giving more information of the content. This can be information about the place or a dress the actress wears

Surroundings Detection

In order to get more information about the environment (like whether it is dark or under light), the sensors of the mobile devices can be used and this information can be used to change the backlight setting of the TV according to content.



AI on Content

Content Offer

Getting information from Samba and using this information to offer content over Smart Center app.

Setting Recommendation

This can be made in 2 way, one of them is to detect the content and offer a picture setting and other one is offering a common watched content to people.



AI on Connectivity

Device Recommendations

Detecting the connected devices in the same network, so that the end user can use the connected devices with their TV (like lambs)

Network Recommendation

Detecting the router and offering a better connection setting (like changing the router setting from 2.4GHz to 5GHz)

Personalization

Detecting the devices with Bluetooth in order to understand that the person is in the room and changing the setting or offering the content according to the person in rooms needs.

Smart TV



Vestel Smart TV allows you to access various internet contents with a simple click on the remote control. Using Smart TV apps, basically, you can stream music, videos and movies in real time from several websites. You can watch the missed episodes of your favorite TV shows via catch up service; you can rent the latest movies or watch internet videos. Moreover, you have access to many online applications in various categories such as news, sports, games, weather, entertainment, social networks and more. For instance, you can stay connected and the latest updates on your social media accounts. Vestel Smart TV allows you to enjoy your favorite internet contents gathered in one common place by making your life designed for your personal preferences while using your Smart TV.

While using your Vestel Smart TV, you can browse among apps and access to widgets while you are watching TV at the same time!

Available Services for Smart TV

Video VOD

Premium VOD
Local content
Rental Video services

Catch-up
Local TV channels

Internet Video

**Personal Music
Channel**

Social Networking

Music

Personal Radio

Music-on-demand
Web Radio

Games

Information Services

Weather
News



NETFLIX

Netflix is the most famous and essential VoD provider to watch movies and TV shows over internet connection. Vestel Smart TV enables you to watch thousands of movies and TV shows anytime you want and as much as you want via Netflix service. Having access to incredible world of TV episodes and movies, Vestel Smart TV instantly transforms your living room to a movie theater or a TV studio!

YouTube

Youtube is the world's biggest and most popular video sharing platform. The latest and greatest music videos, trends and channels are in here. You can also synch your mobile device to the app and enjoy the content. Being the most used app on Smart TVs through out the world, Youtube is essential.

prime video

Prime Video is the Video on Demand service developed, owned and operated by Amazon. It offers television shows and films for rent or purchase as well as a selection of Amazon Studios original content and licensed acquisitions. You can get access to Amazon's carefully curated and steadfastly expanding content with an Amazon Prime or Prime Video Membership. As a close partner of Amazon, Vestel Smart TVs bring the Amazon experience to your living rooms at your fingertips or through your voice!

FreeviewPlay

Freeview Play is another smart portal that Vestel supports which includes BBC iPlayer, ITV, All4 and Demand5. You can enjoy catch up services of these channels via backward EPG, all in one place. Just connect to internet, open your Freeview Play and start watching without a subscription fee.



Vestel HBB (Hybrid Broadband Broadcast) TV feature provides a delightful entertainment to the users through the harmonized variety in broadband and broadcast delivery by extending the reach of multimedia content on your TV set. More entertainment services from broadcasters and online providers such as video-on-demand (VoD), interactive advertising, personalization, voting, games and social networking as well as program related services such as digital text and EPGs will be accessed by end-user.



Rakuten TV is a video-on-demand streaming service, offering movies and TV series for subscription, rental and purchase. Rakuten TV's catalogue includes content from studios around the world including Warner Bros., Disney, Sony Pictures Entertainment and Twentieth Century Fox Home Entertainment, local distributors, and independent labels.

Operational in 11 countries across Europe, Rakuten is a longterm partner of Vestel.



BBC Sports offers users to access best sport coverage both with live streams and VoD. You can watch live sport events from tennis tournaments to rugby games. Besides, you can watch latest highlights and headlines for these delusive events. Major sport events available come to your home with Vestel Smart TV via BBC Sports.



BBC News provides you latest news and highlights from global journalists. You can quickly find the topic you are interested in as well as reaching the news based on the categories you are interested in.



BBC iPlayer is an online VoD platform including whole TV shows as well as range of video clip contents. You can watch live contents and your favorite TV programs that you missed via BBC iPlayer on your Smart TV. Vestel Smart TV is all you need to meet your expectations from an online TV and radio service by providing you an opportunity to experience devastating entertainment show.



DTS

Vestel is offering immersive audio experience option using DTS sound systems. DTS is a series of multichannel audio technologies owner. The company is specialized in digital surround sound formats used for both commercial/theatrical and consumer grade applications. DTS licenses its technologies to consumer electronics manufacturers and Vestel is the one of the manufacturers holds DTS license. Why sound matters? Mobile era has changed the consumer needs and content consumption habits. In order to satisfy viewers Vestel is offering higher quality

audio, which has less effect on bandwidth and more effect on likeability than picture quality, thanks to the DTS technologies. DTS 2.0, DTS TruSurround, DTS HD are already equipped with Vestel TVs. Keeping track of enhanced sound system technologies makes us move for newest DTS technologies as well, expecting to offer DTS Headphone X for Vestel TV range.

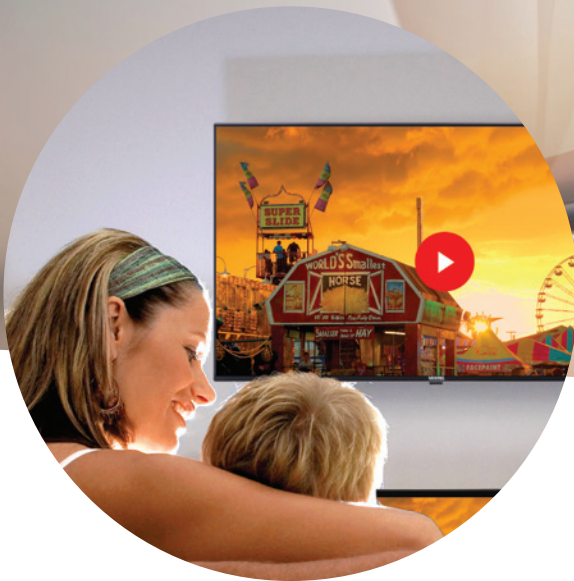
Experience supreme sound quality thanks to the integrated DTS on Vestel mainboards; enjoy concerts, movies or any sports program with sound excellence.



DTS Virtual:X simplifies the expansion of the surround sound listening by providing primarily the perception of height channels, without requiring additional speakers. DTS achieves 3D surrounding sounds natively without sound conversion process from 2D to 3D.

Multiscreen Technology

Vestel Smart TV allows you to use your companion devices (tablet pc and smartphone) by synchronizing them with your Smart TV. Meanwhile, you can build multi-screen system at your home that upgrades you to a higher entertainment level. You can control your Smart TV with your mobile devices wirelessly, you can send multimedia contents from your devices to your TV in order to view them on TV screen and transfer TV stream to your companion devices to watch the stream on device simultaneously.



Smart center

Vestel Smart Center is a mobile application that provides you a seamless mobile application experience on iOS and Android devices.

Smart Center allows users to perform following features:

- + FollowMe TV
- + Media Share
- + TV Programs and VoD
- + Social Media Interaction
- + EPG via Gracenote
- + Portal Launcher
- + TV Control



Wireless display

Wireless display feature allows mirroring the screen of your compatible Android device to stream videos up to 1080p on your Vestel Smart TV. While you are streaming a video on your smartphone, you can simultaneously mirror the screen of Android device on your wider Smart TV screen to enjoy detailed and higher quality pictures on TV without using any cable. Moreover, it is possible to send up to 5.1-surround sound that enables you to experience high quality sound as well. Besides, you can just share the home screen of your device, to scroll between the apps on your Android device. Directly connect mobile device

to your TV and get a new perspective on sharing! Besides, wireless display technology allows users to send stream, photos, music, videos and apps from compatible Intel based PCs or portable devices to your wireless display compatible Vestel TV wirelessly. You can send up to 1080p video and 5.1 surround sound and have the opportunity to display the stream or multimedia contents on the bigger screen of TV with excellent picture and sound quality. You don't have to stick to little screen of your PC or portable device anymore. Just enjoy the new entertainment experience on your TV!



TV control: voice control, touchpad, keyboard and remote

You don't need your classical remote anymore! Via Smart Center, there are many options to control your TV over your mobile device. By using remote control panel on your mobile device; you can use your device as classical remote control. Moreover, you can use keyboard option while searching on internet. While using open browser, you can turn your mobile device into a touchpad controller. Attractively, you can give voice commands over Smart Center to control some features of your Smart TV.



VCAST

You can use your phone, tablet, or computer to control supported applications on TV. This feature of Youtube application helps the user to connect their personal accounts to their Smart Tv only with a few clicks. You will have the comfort and efficiency of your mobile devices while watching the content desire on your Smart Tv. Just make sure your phone, tablet, or computer is connected to the same Wi-Fi network as your TV device. You also have the option to link with a TV code.

Followme TV

Do you have to do some work in kitchen and want to continue to watch your favorite program? Smart Center allows viewers to deliver the video stream from Smart TV to tablet pc. While watching your favorite program, just transfer the broadcast to your mobile device. You can take your mobile device with you and continue to watch your favorite program in your kitchen!

Social media interaction

You can follow and send program related tweets or like your favorite programs on Facebook while watching your favorite TV program on your Vestel Smart TV. This way, you can connect to people all over the world that have the same delight with you!

EPG via Gracenote

EPG (Electronic Program Guide) data provides necessary information to viewers about TV broadcast prograing and program schedule for current and upcoming programs. Via Gracenote, Smart Center app will provide you broadcast schedule data and you will be aware of TV programs in details such as cast and crew. Moreover, you will be able to set reminders to watch your favorite programs as well as recording on time schedule of programs based on EPG data.

Media share

Via Smart Center, it is possible to send music, pictures and videos from your mobile device to your Smart TV TV by swiping over DLNA protocol and view them full size on your Smart TV to enhance your viewing experience. For instance, you can display your holiday photos together with your family on your big screen quality Smart TV with a simple swipe movement.

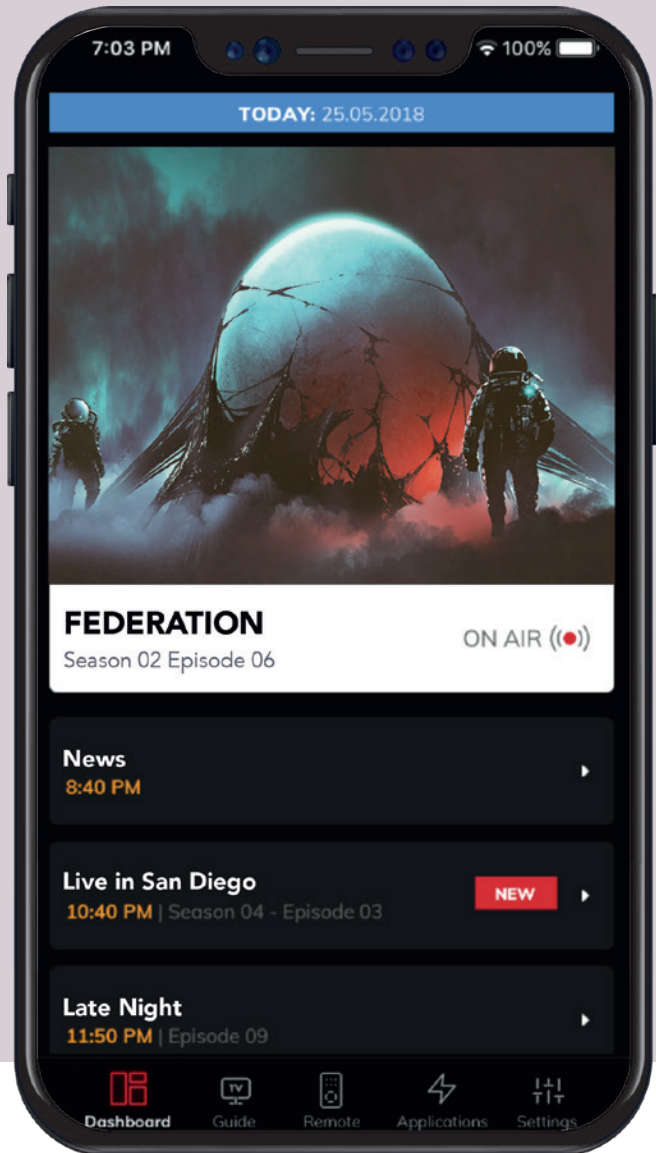
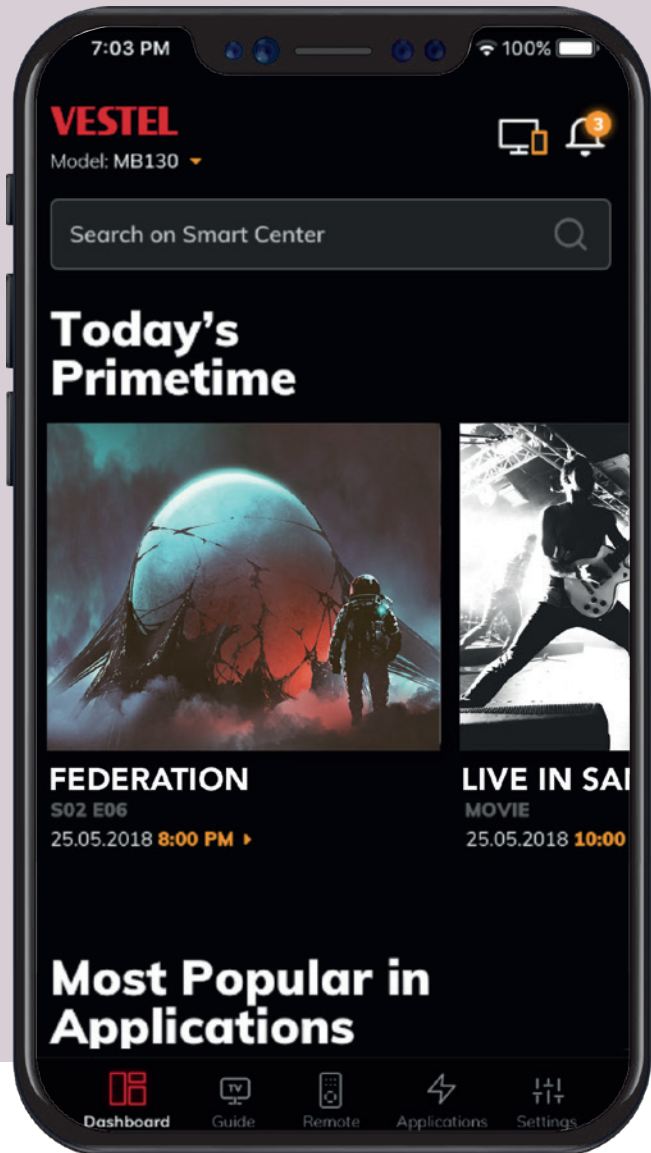
Portal launcher

Viewers can launch Smart TV Apps from personal tablet PC. Without using classical remote control, via Smart Center, you can connect your mobile device to your TV and directly launch various Smart TV apps and open browser by using your mobile device.

TV programs and vod (video-on-demand)

Viewers can browse TV channels, search movies or on-demand services on Smart Center. You can arrange your favorite TV channels, you can see the details of your favorite program and watch videos by using VoD that are related to your favorite TV program on internet.

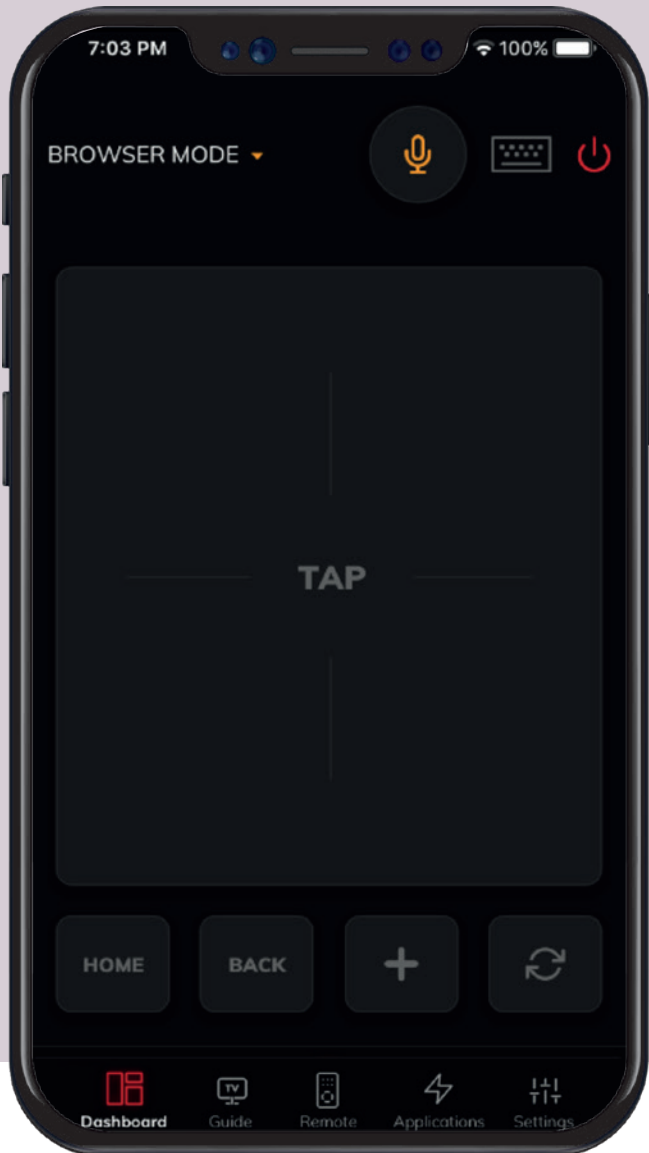
Smart Remote



Smart remote

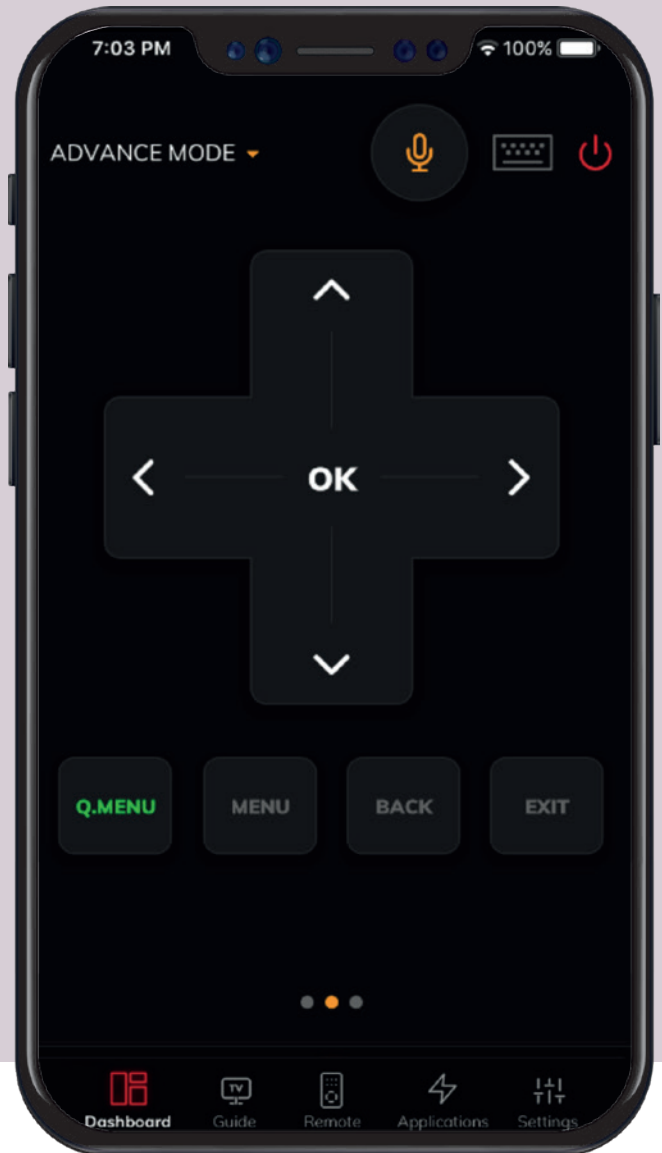
Vestel Smart Remote makes it easier to use and control your Smart TV. Smart Remote app allows you to use your tablet pc and smartphone as substitutes of traditional remote controller. You can control your Smart TV by using different mode options: Remote buttons, Keyboard, Mouse, Gesture and Voice! Integration of these modes in single app allows you flexibility for a simpler user experience.





Touchpad Mouse

You can use your Tablet PC and smartphone as a touchpad mouse to control the mouse pointer on your Smart TV.



Remote buttons

Traditional remote control buttons are integrated into Smart Remote app. Therefore, you can use your Tablet PC and smartphone as a remote controller. Traditional mode is provided in an extreme technological style!



Multi IR RCU*

In areas where there are multiple TVs installed, thanks to the Multi IR remote control unit, each remote can be assigned to a different TV with no signal interference from other remote controls. Up to four TVs can use this function simultaneously.

USB

USB allows easy connection of external storage devices directly to your TV set. Via USB you can quickly connect external storage and access digital contents such as image files, video files and audio files. Simply connect your external memory source to USB port of Vestel TV to watch your favorite movies or to display photos that are stored on big screen of TV instead of being obliged to display these contents on the small screen of your computer. Plug yourself in bigger screen for higher pleasure!

One Channel List

There may be several programs which can be received from terrestrial, cable or satellite broadcasts. VESTEL HotelTV provides a convenient channel list management with a single channel list which consists all the programs regardless of broadcast type.

BLUETOOTH

Vestel Smart TV's Bluetooth feature helps you to connect you accessories to your TV via Bluetooth. You can connect your headphones, sound systems, compatible 3D glasses and Vestel Touchpad remotes to enrich your TV using experience. Bluetooth feature completely changes your classical TV using habits and a true item for you to multiply the joy you have while watching TV!



HDMI

Through HDMI 2.0, you can experience the combination of pure sound and excellent visual content on your TV set. HDMI 2.0 is perfect and fastest source to transfer multimedia contents (video and audio) by providing clear pictures and clean sounds which results in an amazing user experience.

HDMI 2.0 provides, perfect source for potential UHD content and connection of various electronic devices to your TV set using only one compatible cable.

Auto-Data Erase

Hotel TVs have the ability to clear all cache data for Smart TV applications such as Facebook, Twitter, Youtube, etc. This increases the security for hotel guests.

Anti-Theft Battery Cover*

The anti-theft battery cover is a simple screw lock providing a fool-proof security to prevent the remote control battery from being stolen. It just makes your life easier.

DVB-T + C, DVB-T2 and DVB-S2

DVBT2/C/S2 Vestel TV employs the integration of DVB-T + C, DVB-T2, and DVB-S2 tuner which allow TV set to receive digital terrestrial cable, and satellite broadcasts without using a set-top box or a Pay tv receiver.

Microsoft PlayReady DRM

Wide range of applications including VoD, sports, games, social media, and etc. with support of Microsoft Playready DRM.

DVBT2/C/S2[®]

Microsoft[®]
PlayReady[®]

Basic Hotel Mode



Hotel Mode Features

Basic hotel mode is particularly configured mode which makes usage of TV more specific and more accurate for commercial TV business branches thanks to the features it includes. Some basic features provide enhanced differentiation and to the point meet of expectations in hospitality applications which can be accessed via special controller combination.

Welcome Screen

Commercial logo, message or default pictures can be used and displayed at the start-up of TV. These can be displayed if the hotel mode is enabled. This feature allows you to benefit from customization at the high levels.

Wake-Up Alarm

In hotel mode, guests can set a wake-up time and TV can automatically wake up at the desired time and an alarm rings to wake you up. Concurrently, welcome image is shown on the screen while alarm is ringing.

USB Cloning

USB cloning allows you to copy the settings of one TV to all other TV units in an easier way. For instance, you can copy the settings or channel list of one TV to high amounts of TV by using USB cloning. By this way, you can simply standardize all TVs without spending a lot of time. Helpful USB cloning feature prevents you from dealing with time-consuming installations and makes your life easier.



Start-Up Position

This feature allows you to specify the starting channel when TV is switched on.

Volume Limit And Fixed Volume Value

You can set the maximum and minimum values as you wish. If you set volume limit, you set the maximum value the volume can have. Moreover, when fixed volume enable is on, volume cannot be set to a value other than the fixed volume value.

Custom Bootlogo

Custom Bootlogo feature allows you to choose your favorite photo such as your family photo, favorite nature photo and more for the opening screen of TV. Meanwhile, customization opportunity will make your TV exclusive for you!

Osd Disable On/Off

OSD disable allows you to control TV settings and prevents guests from changing the installation settings. Users cannot reach channel table or installation menu and that means channel list and installation settings cannot be changed.

Last Status

When 'last status' feature is set to on, this feature enables TV to open with the closing status. Otherwise, TV opens with standby status.



Energy saving

With convenient design and latest technologies applied, your TV tends to consume less energy in order to meet energy efficiency standard. Paying attention to energy efficiency issues, your TV truly cares about you and work to build a 'brighter' future for you.

Power board

Application of power safe mode and effective power efficiency usage prevents your TV from unnecessarily excess power consumption in order to contribute energy saving.

Panel Design

LED Lighting systems used while building TV anticipate the effective selection and placement of LEDs in order to enhance energy efficiency levels by consuming less power.

Mainboard

Advanced technology applied in new mainboard designs that are used, allows TV to consume less energy by ensuring the optimum harmony between lighting system and signal distribution that is achieved by mainboard.



DVB-T2/C/S2

DVB-T + C, DVB-T2 and DVB-S2





























DVB-T+C is the abbreviation for Digital Video Broadcasting- Terrestrial and Cable. Vestel TV employs the integration of terrestrial tuner and cable tuner which allows TV set to receive digital terrestrial and cable broadcasts as well as traditional analog signals. Viewers can eliminate the set-top box and Pay TV receiver because of the availability of CI+ module slot.

DVB-T2 that stands for Digital Video Broadcasting-Second Generation Terrestrial is the most advanced digital terrestrial broadcast system. Vestel TV




















includes a DVB-T2 tuner and allows TV to receive both standard and high definition terrestrial broadcasts without using a set-top-box or a Pay TV receiver.

DVB-S2 corresponds to Digital Video Broadcasting-Second Generation Satellite that provides digital satellite broadcasts. Vestel TV that is equipped with a DVB-S2 tuner enables user to watch both standard definition and high definition satellite broadcasts without the necessity for a set-top-box.

Country Based Approvals and Broadcast

Country Based Approved Operators	Terrestrial DVB-T	Terrestrial DVB-T2	Cable DVB-C	Satellite DVB-S/S2
Australia	freeview 			
Austria				
Belgium			 	
Croatia				
Czech				
Denmark				
Finland		 		
France				
Germany		 	 	
Ghana				
Greece				
Hungary	 			
Ireland				



Country Based Approved Operators	Terrestrial DVB-T	Terrestrial DVB-T2	Cable DVB-C	Satellite DVB-S/S2
Italy		 		 
Netherlands			 	
New Zealand				
Norway				
Poland				
Romania				
Slovakia				
Spain				
Serbia		<p>Digital TV Coming soon</p>		
Sweden				
Switzerland				
Turkey		DVB-T2 RTUK	TurksatKablo	Digiturk DISMART
UK		 		



Accessories

Elder Remote

Simple remote has a new design with new features. It is the most practical way of controlling your daily standard TV activities with lesser number of buttons. After configuring system settings of your TV with standard remote, the rest could be easily managed by this 18 button RC. Select your source, navigate between channels and do simple operations with bigger buttons.

USB Wifi Adapter

You don't need extra Ethernet cables in your living room anymore while using your Vestel Smart TV. USB Wifi adapter allows you to connect your TV to internet wirelessly. All you need to do is plug in your Wifi adapter to your Smart TV and enjoy wireless connection over your home network.

Air Mouse

Air Mouse is enjoyable and easy way of controlling your Smart TV to live an amazing user experience. You can perform 2 control options by using your Air Mouse wirelessly: Point and Gesture!

Point: Discover the simple way of using Smart TV and internet. Simply point, click, enter any content or move anywhere on your Smart TV.

Gesture: You don't have to spend more time for movement on menus. Air Mouse enables you to zoom in and out by moving back and forth while holding OK button.





Smart Pack

A Simple way to make your home smart. Connect and live easy with Vestel Smart Home Solution. Use your Vestel Smart tv as face of your smart home. You can control all of your sensors, devices and scenerios via your Vestel Smart TV. You can get notifications while watching any content from your TV. Pack is designed for easy setup without any cables.

SMART HOME READY TV



Smart Home Ready TV App

It connects your devices and sensors with your smart devices such as smartphone and tablet. You can connect to your smart hub where ever you are.



Siren

It acts as deterrent by giving loud noise and light.



Motion Sensor

It gets activated by the movement and sounds the alarm. IT can be added to any scenario.



Door Sensor

It activates the alarm and system gives you notification when intruder breaks into your house.



Keyfob

It controls security scenario by activating and deactivating. You can also manually sound the alarm via the alarm button on keyfob. You can easily enter or leave your home without using your smart app by controlling security scenarios.



Smart Dongle

Acts as hub devices connected to the tv which enables you to control your system via your Vestel Smart TV.



Smart Plug

You can control all electronical devices by smart plug from your tv and smartphone. It can be added to the scenarios and automatically controlled by the hub.

VOICE ENABLED TV

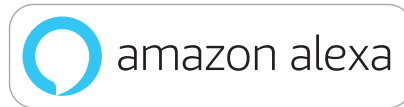


Alexa Built-in

Consumers are able to use Alexa to control their Vestel Smart TVs through far-field-microphones attached to their TVs – all without a need for an additional Echo device! Alexa will be able to help customers perform functions like turning the TV on and off, increasing or decreasing the volume, and changing the channels etc.

Smart TV Works with Alexa

Vestel TVs able to work with Alexa. Users can control their Vestel TVs through Amazon Echo devices by just adding the TV to Smart Home device list. Already being sold in United Kingdom and Germany, customers can differentiate these TVs with their works with Alexa badges.



Smart TV Works with Google Assistant

Consumers can control their Vestel Smart TVs with their Google Assistant built-in devices. Coming into the market in January 2020, users in Google Home available countries will be able to control their Vestel Smart TVs and Vestel Home Appliances with their voice in their own languages.



REMOTE CONTROLS



RC 43137P



RC 43135



RC 43135PV



RC 43155P



RC 43156P



RC 43157



RC 43158



RC 43160



RC 39165



RC 4800 (transparent)



RC 4870



RC 43136



RC 22137



RC 2290



RC 2218



RC 1501



RC 1835

2020 STAND DESIGNS



xx530



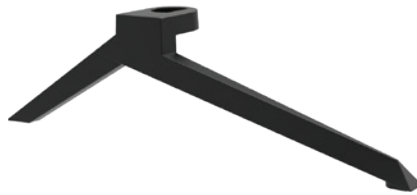
xx531



xx532



xx533



xx534



xx535



xx536



xx537

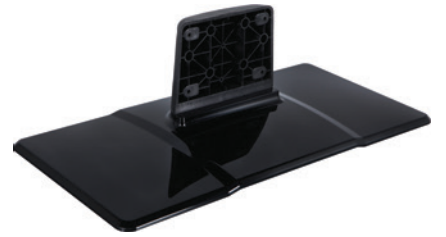
2019 STAND DESIGNS



xx115



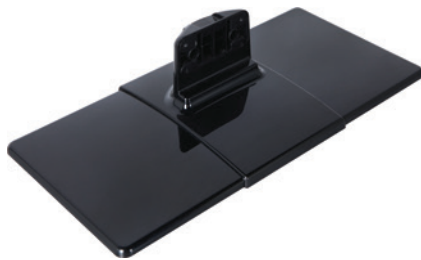
xx135



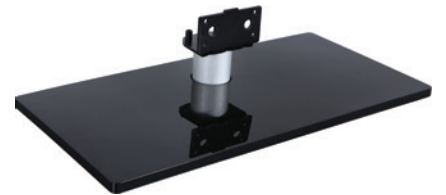
xx180



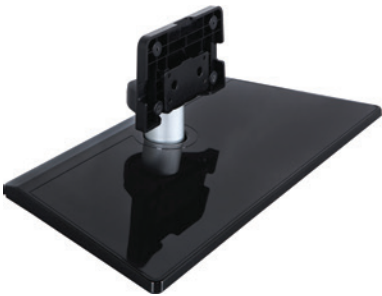
xx165



xx182



xx185



xx240



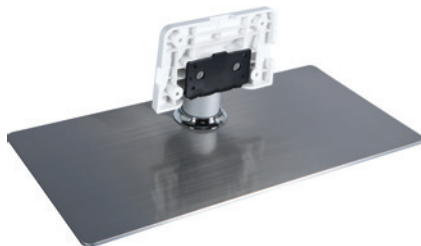
xx260



xx265



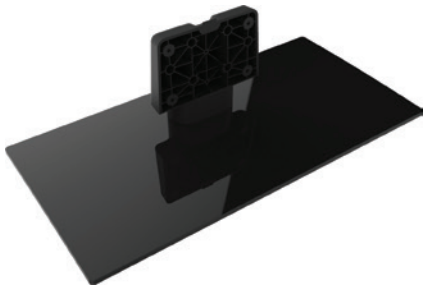
xx275



xx280



xx400



xx405



xx407



xx408



xx409



xx410



xx415



xx416



xx417



xx420



xx421



xx422



xx423



xx425



xx427



xx428



xx465



xx501



xx502



xx503



xx504



xx505



xx985



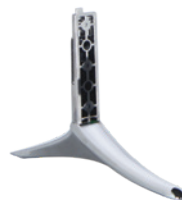
xx980



xx300



xx301



xx302



xx303



xx304



xx305



xx306



xx307



xx308



xx309



xx310



xx311



xx313



xx316



xx325



xx326



xx328

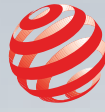
Awards



DME Award



Plus X Award



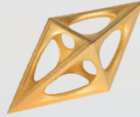
Reddot Design Award



Product Design Award



Good Design Award



A Design Award



Design Turkey



Specifications





TV Specifications	HD/FHD Non Smart Mainboard MB140									
	22"	24"	28"	32"	39"	40"	43"	48"	49"	50"
Main features										
Full hd	*	-	-	o	o	*	*	*	*	*
Dvb-t mpeg2	*	*	*	*	*	*	*	*	*	*
Dvb-c mpeg2	*	*	*	*	*	*	*	*	*	*
Dvb-s mpeg2	o	o	o	o	o	o	o	o	o	o
Dvb-t mpeg4	*	*	*	*	*	*	*	*	*	*
Dvb-c mpeg4	*	*	*	*	*	*	*	*	*	*
Dvb-s mpeg4	o	o	o	o	o	o	o	o	o	o
Dvb-t2 mpeg4	o	o	o	o	o	o	o	o	o	o
Dvb-s2 mpeg4	o	o	o	o	o	o	o	o	o	o
Hevc (h.265)	o	o	o	o	o	o	o	o	o	o
Isdb-tb	-	-	-	-	-	-	-	-	-	-
Tv-dvd player combi	o	o	o	o	-	o	o	-	-	-
Media player	*	*	*	*	*	*	*	*	*	*
Pvr ready (usb record)	o	o	o	o	o	o	o	o	o	o
Hdmi (1.1/1.2/1.3/1.4/2.0)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Reception & tuning systems										
Tuner vhf/uhf/cable	*	*	*	*	*	*	*	*	*	*
Aps / ats (auto search)	*	*	*	*	*	*	*	*	*	*
Pal secam b/g d/k i/i' (tri standart)	*	*	*	*	*	*	*	*	*	*
Sound										
Ger(d) + nicam stereo	*	*	*	*	*	*	*	*	*	*
Ms11	*	*	*	*	*	*	*	*	*	*
Dts trusurround	o	o	o	o	o	o	o	o	o	o
Dts hd	o	o	o	o	o	o	o	o	o	o
Surround sound	*	*	*	*	*	*	*	*	*	*
Audio output power(rms)	2x2.5W	2x2.5W	2x6W	2X6W	2X8W	2X8W	2X8W	2X8W	2X8W	2X8W
Subwoofer audio output max power (rms)	-	-	-	-	-	-	-	-	-	-
Connectors										
Rf: tv/catv 75 ohms coaxial	*	*	*	*	*	*	*	*	*	*
Scart (euroconnector)	1	1	1	1	1	1	1	1	1	1
Svhs via scart	*	*	*	*	*	*	*	*	*	*
Composite video/audio in	*	*	*	*	*	*	*	*	*	*
Audio line out via headphone	*	*	*	*	*	*	*	*	*	*
Ypbpr in via vga	*	*	*	*	*	*	*	*	*	*
Vga (pc in: d-sub15)	*	*	*	*	*	*	*	*	*	*
Pc audio in	via Side AV	via Side AV	via Side AV	via Side AV	via Side AV	via Side AV	via Side AV	via Side AV	via Side AV	via Side AV
Hdmi (default/optional)	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Hdcp (1.2/ 2.0 / 2.2)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Digital audio output (coaxial)	*	*	*	o	-	-	-	-	-	-
Digital audio output (optic)	-	-	-	o	*	*	*	*	*	*
Headphone out (main volume control)	*	*	*	*	*	*	*	*	*	*
Internal subwoofer	-	-	-	-	-	-	-	-	-	-
Usb 2.0 (Default/optional)	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Lan-ethernet (ieee 802.3) Rj45	-	-	-	-	-	-	-	-	-	-
Smart port-interactive ready hotel tv app.Rj12	-	-	-	-	-	-	-	-	-	-
Rs232 (in/out) (d-sub 9)	via SCART	via SCART	via SCART	via SCART	via SCART	via SCART	via SCART	via SCART	via SCART	via SCART

TV Specifications	HD/FHD Non Smart Mainboard MB140									
	22"	24"	28"	32"	39"	40"	43"	48"	49"	50"
Picture										
Zoom modes (aspect ratio)	.	.	.	.	.	.	.	.	.	.
Dynamic contrast	.	.	.	.	.	.	.	.	.	.
Progressive scan	.	.	.	.	.	.	.	.	.	.
Additional features										
Usb cloning	o	o	o	o	o	o	o	o	o	o
Feature osd	o	o	o	o	o	o	o	o	o	o
E-ib	-	-	-	-	-	-	-	-	-	-
Digital (dwb)										
Menu languages	Danish, German, Estonian, English, Spanish, Greek, French, Gaelic, Gallegan, Croatian, Italian, Latvian, Lithuanian, Luxembourgish, Hungarian, Dutch, Norwegian, Polish, Portuguese, Russian, Romanian, Albanian, Slovenian, Slovak, Serbian, Finnish, Swedish, Turkish, Czech, Ukrainian, Bulgarian, Arabic, Persian, Hebrew, Belarussian, Flemish, Macedonian, Montenegrin, Kazakh,									
Epg (electronic program guide)	.	.	.	.	.	.	.	.	.	.
Epg timeline schedule	.	.	.	.	.	.	.	.	.	.
Common interface (pcmcia slot for pay channels)	.	.	.	.	.	.	.	.	.	.
Dvd features										
Cd compatible playback	.	.	.	.	-	.	.	-	-	-
Dvd compatible playback	.	.	.	.	-	.	.	-	-	-
Cd-r compatible playback	.	.	.	.	-	.	.	-	-	-
Cd-rw compatible playback	.	.	.	.	-	.	.	-	-	-
Dvd-r compatible playback	.	.	.	.	-	.	.	-	-	-
Dvd-rw compatible playback	.	.	.	.	-	.	.	-	-	-
Mp3 compatible playback	.	.	.	.	-	.	.	-	-	-
Divx compatible playback (divx formats)	o	o	o	o	-	o	o	-	-	-
Dvd+r	.	.	.	.	-	.	.	-	-	-
Dvd+rw	.	.	.	.	-	.	.	-	-	-
Cd-audio	.	.	.	.	-	.	.	-	-	-
Kodak picture cd	.	.	.	.	-	.	.	-	-	-
Stil/slow/search playback	.	.	.	.	-	.	.	-	-	-
J-peg image compatible playback	.	.	.	.	-	.	.	-	-	-
Multiple language options	.	.	.	.	-	.	.	-	-	-
Multiple camera angles	.	.	.	.	-	.	.	-	-	-
Playback zoom	.	.	.	.	-	.	.	-	-	-
Parental settings	.	.	.	.	-	.	.	-	-	-
Region	.	.	.	.	-	.	.	-	-	-
Return to factory settings	.	.	.	.	-	.	.	-	-	-
Software update with boot disc	DVD	DVD	DVD	DVD	-	DVD	DVD	-	-	-
Communication										
Cec(connected equipment features via hdmi)	.	.	.	.	.	.	.	.	.	.
Operation										
Power supply	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC
Stand-by power	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W
Ac/dc tv (mobil tv)	o	o	-	-	-	-	-	-	-	-
Supplied extras (related to cabinet and concept)										
Wall hanging kit	o	o	o	o	o	o	o	o	o	o
Certificates										
Weee compliant	.	.	.	.	.	.	.	.	.	.
Rohs compliant	.	.	.	.	.	.	.	.	.	.

- Default
 - o Optional
 - /A
- LAN (Ethernet) and Mobil TV (12V DC adapter option) can not be supported together.
ARC feature is supported through HDMI-2 (Back)
Composite (RCA) is supported as Back AV IN

Specifications are subject to change without prior notice.

Tv Specifications	HD/FHD Smart Mainboard 211S									
	22"	24"	28"	32"	39"	40"	43"	48"	49"	50"
Main Features										
Full Hd	•	o	-	o	o	•	•	•	•	•
Dvb-T Mpeg2	•	•	•	•	•	•	•	•	•	•
Dvb-C Mpeg2	•	•	•	•	•	•	•	•	•	•
Dvb-S Mpeg2	o	o	o	o	o	o	o	o	o	o
Dvb-T Mpeg4	•	•	•	•	•	•	•	•	•	•
Dvb-C Mpeg4	•	•	•	•	•	•	•	•	•	•
Dvb-S Mpeg4	o	o	o	o	o	o	o	o	o	o
Dvb-T2 Mpeg4	•	•	•	•	•	•	•	•	•	•
Dvb-S2 Mpeg4	o	o	o	o	o	o	o	o	o	o
Hevc (H.265)	•	•	•	•	•	•	•	•	•	•
Media Player	•	•	•	•	•	•	•	•	•	•
Pvr Ready (Usb Record)	o	o	o	o	o	o	o	o	o	o
Hdmi (1.1/1.2/1.3/1.4/2.0)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Reception & Tuning Systems										
Tuner Vhf/Uhf/Cable	•	•	•	•	•	•	•	•	•	•
Pal Secam B/G D/K I/I' (Tri Standart)	•	•	•	•	•	•	•	•	•	•
Ntsc	-	-	-	-	-	-	-	-	-	-
Dual Tuner	-	-	-	-	-	-	-	-	-	-
Sound										
Ger(D) + Nicam Stereo	•	•	•	•	•	•	•	•	•	•
Ms11	•	•	•	•	•	•	•	•	•	•
Dts Hd	o	o	o	o	o	o	o	o	o	o
Surround Sound	•	•	•	•	•	•	•	•	•	•
Audio Output Power(Rms)	2x2.5W	2x2.5W	2x6W	2X6W	2X8W	2X8W	2X8W	2X8W	2X8W	2X8W
Subwoofer Audio Output Max Power (Rms)	-	-	-	-	-	-	-	-	-	-
Connectors										
Rf: Tv/Catv 75 Ohms Coaxial	•	•	•	•	•	•	•	•	•	•
Composite Video/Audio In	•	•	•	•	•	•	•	•	•	•
Audio Line Out Via Headphone	•	•	•	•	•	•	•	•	•	•
Ypbpr In Via Vga	o	o	o	o	o	o	o	o	o	o
Vga (Pc In: D-Sub15)	•	•	•	•	•	•	•	•	•	•
Pc Audio In	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV
Hdmi (Default/Optional)	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Hdcp (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Digital Audio Output (Coaxial)	•	•	•	o	-	-	-	-	-	-
Digital Audio Output (Optic)	-	-	-	o	•	•	•	•	•	•
Headphone Out (Main Volume Control)	•	•	•	•	•	•	•	•	•	•
Usb 2.0 (Default/Optional)	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Lan-Ethernet (Ieee 802.3) Rj45	o	o	o	o	o	o	o	o	o	o
Rs232 (In/Out)	via VGA	via VGA	via VGA	via VGA	via VGA	via VGA	via VGA	via VGA	via VGA	via VGA
Digital Sw Update	USB & LAN	USB & LAN	USB & LAN	USB & LAN	USB & LAN	USB & LAN	USB & LAN	USB & LAN	USB & LAN	USB & LAN

Tv Specifications	HD/FHD Smart Mainboard 211S									
	22"	24"	28"	32"	39"	40"	43"	48"	49"	50"
Picture										
Zoom Modes (Aspect Ratio)	.	.	.	.	.	.	.	.	.	.
Dynamic Contrast	.	.	.	.	.	.	.	.	.	.
Connectivity Features										
Hbbtv (1.5)	o	o	o	o	o	o	o	o	o	o
Freeview Play	o	o	o	o	o	o	o	o	o	o
Wifi (Via Usb Dongle)	o	o	o	o	o	o	o	o	o	o
Html5 Support (By Youtube Lb4 2014)	o	o	o	o	o	o	o	o	o	o
Dlna 2.1	o	o	o	o	o	o	o	o	o	o
Bluetooth	o	o	o	o	o	o	o	o	o	o
Hotel Tv	o	o	o	o	o	o	o	o	o	o
Portal Support	o	o	o	o	o	o	o	o	o	o
Wifi (Internal)	-	o	-	o	o	o	o	o	o	o
Open Internet	o	o	o	o	o	o	o	o	o	o
Bbc Iplayer, News, Sports, Crb	o	o	o	o	o	o	o	o	o	o
Netflix	o	o	o	o	o	o	o	o	o	o
Miracast	o	o	o	o	o	o	o	o	o	o
Intel Wi-Di	o	o	o	o	o	o	o	o	o	o
Additional Features										
Usb Cloning	o	o	o	o	o	o	o	o	o	o
Feature Osd	o	o	o	o	o	o	o	o	o	o
Animated Feature Osd	o	o	o	o	o	o	o	o	o	o
E-Ib	o	o	o	o	o	o	o	o	o	o
Digital (Dvb)										
Menu Languages	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Gallegan, Luxembourgish, Montenegrin, Flemish									
Epg (Electronic Program Guide)	.	.	.	.	.	.	.	.	.	.
Epg Timeline Schedule	.	.	.	.	.	.	.	.	.	.
Common Interface (Pcmcia Slot For Pay Channels)	.	.	.	.	.	.	.	.	.	.
Communication										
Cec(Connected Equipment Features Via Hdmi)	.	.	.	.	.	.	.	.	.	.
Operation										
Power Supply	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC
Stand-By Power	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W
Supplied Extras (Related To Cabinet And Concept)										
Wall Hanging Kit	o	o	o	o	o	o	o	o	o	o
Certificates										
Weee Compliant	.	.	.	.	.	.	.	.	.	.
Rohs Compliant	.	.	.	.	.	.	.	.	.	.

- Default
 - o Optional
 - /A
- LAN (Ethernet) and Mobil TV (12V DC adapter option) can not be supported together.
ARC feature is supported through HDMI-2 (Back)
Composite (RCA) is supported as Back AV IN

Specifications are subject to change without prior notice.

Tv Specifications	UHD Android TV Mainboard MB170						
	43"	49"	50"	55"	58"	65"	75"
Main Features							
Ultra Hd	*	*	*	*	*	*	*
Led Direct Back Light (Dled)	o	o	o	o	o	o	o
Led Edge Back Light (Eled)	o	o	o	o	o	o	o
Dvb-T Mpeg2	*	*	*	*	*	*	*
Dvb-C Mpeg2	*	*	*	*	*	*	*
Dvb-S Mpeg2	o	o	o	o	o	o	o
Dvb-T Mpeg4	*	*	*	*	*	*	*
Dvb-C Mpeg4	*	*	*	*	*	*	*
Dvb-S Mpeg4	o	o	o	o	o	o	o
Dvb-T2 Mpeg4	*	*	*	*	*	*	*
Dvb-S2 Mpeg4	o	o	o	o	o	o	o
Hevc (H.265)	*	*	*	*	*	*	*
Media Player	*	*	*	*	*	*	*
Pvr Ready (Usb Record)	o	o	o	o	o	o	o
Hdmi (1.1/1.2/1.3/1.4/2.0/2.1)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Reception & Tuning Systems							
Tuner Vhf/Uhf/Cable	*	*	*	*	*	*	*
Aps / Ats (Auto Search)	*	*	*	*	*	*	*
Pal Secam B/G D/K I/I' (Tri Standart)	*	*	*	*	*	*	*
Sound							
Ger(D) + Nicam Stereo	*	*	*	*	*	*	*
Equalizer (5 Band)	5 band	5 band	5 band	5 band	5 band	5 band	5 band
Ms12 (Dolby)	*	*	*	*	*	*	*
Dolby Audio Processing (Dap)	*	*	*	*	*	*	*
Dolby Atmos	o	o	o	o	o	o	o
Dolby Ac4	*	*	*	*	*	*	*
Dts Hd	*	*	*	*	*	*	*
Dts Virtual:x	o	o	o	o	o	o	o
Audio Output Power (Rms)	2x10W	2x10W	2x10W	2x10W	2x10W	2x12W	2x12W
Connectors							
Rf: Tv/Catv 75 Ohms Coaxial	*	*	*	*	*	*	*
Composite Video/Audio In	*	*	*	*	*	*	*
Audio Line Out Via Headphone	*	*	*	*	*	*	*
Ypbpr In Via Vga	*	*	*	*	*	*	*
Vga (Pc In: D-Sub15)	*	*	*	*	*	*	*
Pc Audio In	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV
Hdmi 1 (Side)	*	*	*	*	*	*	*
Hdmi 2 (Arc) (Back)	*	*	*	*	*	*	*
Hdmi 3 (Back)	o	o	o	o	o	o	o
Hdmi 4 (Back)	o	o	o	o	o	o	o
Hdcp (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Digital Audio Output (Optic)	*	*	*	*	*	*	*
Headphone Out (Main Volume Control)	*	*	*	*	*	*	*
Usb1 (2.0) (Side)	*	*	*	*	*	*	*
Usb2 (2.0) (Side)	o	o	o	o	o	o	o
Lan-Ethernet (IEEE 802.3) RJ45 (For Return Channel-Uk Market)	*	*	*	*	*	*	*
Rs232 (In/Out)	via VGA	via VGA	via VGA	via VGA	via VGA	via VGA	via VGA
Digital Sw Update	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA	USB / GOTA
Picture							
Zoom Modes (Aspect Ratio)	*	*	*	*	*	*	*
Comb Filter (2D / 3D)	3D	3D	3D	3D	3D	3D	3D
Cti/Lti	*	*	*	*	*	*	*
Digital Noise Reduction	*	*	*	*	*	*	*

Tv Specifications	UHD Android TV Mainboard MB170						
	43"	49"	50"	55"	58"	65"	75"
Dynamic Contrast	*	*	*	*	*	*	*
Progressive Scan	*	*	*	*	*	*	*
Hdr (Hdr10, Dolby Vision, Hlg)	*	*	*	*	*	*	*
Hdr10+	o	o	o	o	o	o	o
Blue Stretch	*	*	*	*	*	*	*
Micro Dimming	*	*	*	*	*	*	*
Gamut Mapping	*	*	*	*	*	*	*
Super Resolution	*	*	*	*	*	*	*
Connectivity Features							
Hbbtv (2.0.2)	*	*	*	*	*	*	*
Freeview Play	o	o	o	o	o	o	o
Htmi5 Support (By Youtube Lb4 2014)	*	*	*	*	*	*	*
4K Support (By Youtube Yp9 2015)	*	*	*	*	*	*	*
Bluetooth	*	*	*	*	*	*	*
Wifi (Internal)	*	*	*	*	*	*	*
Bbc Iplayer, News, Sports, Crb	o	o	o	o	o	o	o
Netflix 4K	*	*	*	*	*	*	*
Googlecast	*	*	*	*	*	*	*
Wake Up On Lan (Wolan / Wowlan)	*	*	*	*	*	*	*
Additional Features							
Ntsc Playback	Via Back AV	Via Back AV	Via Back AV	Via Back AV	Via Back AV	Via Back AV	Via Back AV
Sleep Timer	*	*	*	*	*	*	*
Child Lock	*	*	*	*	*	*	*
No Ident Timer	*	*	*	*	*	*	*
3 Way Switch	o	o	o	o	o	o	o
Animated Feature Osd	o	o	o	o	o	o	o
Str (Suspend To Ram = Instant On)	*	*	*	*	*	*	*
Digital (Dvb)							
Program Storage Capacity (Digital T/ T2/C)	1000	1000	1000	1000	1000	1000	1000
Program Storage Capacity (Digital S/S2)	10000	10000	10000	10000	10000	10000	10000
Menu Languages	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Gaelic, Macedonian, Kazakh, Thai, Belarussian						
Digital Teletext Mheg/ Mhp (Only For Uk Id Tv)	MHEG 5 1.06	MHEG 5 1.06	MHEG 5 1.06	MHEG 5 1.06	MHEG 5 1.06	MHEG 5 1.06	MHEG 5 1.06
Epg (Electronic Program Guide)	*	*	*	*	*	*	*
Epg Timeline Schedule	*	*	*	*	*	*	*
Common Interface (Pcmcia Slot For Pay Channels)	*	*	*	*	*	*	*
Lcn Installation (Check For Country)	*	*	*	*	*	*	*
Communication							
Cec (Connected Equipment Features Via Hdmi)	*	*	*	*	*	*	*
Operation							
Rocker Switch	o	o	o	o	o	o	o
Power Supply	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC
Stand-By Power	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W
Supplied Extras (Related To Cabinet And Concept)							
Wall Hanging Kit	o	o	o	o	o	o	o
Certificates							
Weee Compliant	*	*	*	*	*	*	*
Rohs Compliant	*	*	*	*	*	*	*

- Default
 - o Optional
 - */A
- LAN (Ethernet) and Mobil TV (12V DC adapter option) can not be supported together.
ARC feature is supported through HDMI-2 (Back)
Composite (RCA) is supported as Back AV IN

Specifications are subject to change without prior notice.

TV Specifications	UHD Mainboard MB230						
	43"	49"	50"	55"	58"	65"	75"
Main features							
Ultra hd	*	*	*	*	*	*	*
Led direct back light (dled)	o	o	o	o	o	o	o
Led edge back light (eled)	o	o	o	o	-	o	-
Dvb-t mpeg2	*	*	*	*	*	*	*
Dvb-c mpeg2	*	*	*	*	*	*	*
Dvb-s mpeg2	o	o	o	o	o	o	o
Dvb-t mpeg4	*	*	*	*	*	*	*
Dvb-c mpeg4	*	*	*	*	*	*	*
Dvb-s mpeg4	o	o	o	o	o	o	o
Dvb-t2 mpeg4	*	*	*	*	*	*	*
Dvb-s2 mpeg4	o	o	o	o	o	o	o
Hevc (h.265)	*	*	*	*	*	*	*
Media player	*	*	*	*	*	*	*
Pvr ready (usb record)	o	o	o	o	o	o	o
Hdmi (1.1/1.2/1.3/1.4/2.0/2.1)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Reception & tuning systems							
Tuner vhf/uhf/cable	*	*	*	*	*	*	*
Aps / ats (auto search)	*	*	*	*	*	*	*
Pal secam b/g d/k i/i' (tri standart)	*	*	*	*	*	*	*
Unicable	o	o	o	o	o	o	o
Diseqc	o	o	o	o	o	o	o
Sound							
Ger(d) + nicam stereo	*	*	*	*	*	*	*
Equalizer (5 band)	5 band	5 band	5 band	5 band	5 band	5 band	5 band
Ms12 (dolby)	*	*	*	*	*	*	*
Dolby audio processing (dap)	o	o	o	o	o	o	o
Dolby atmos	o	o	o	o	o	o	o
Dolby ac4	*	*	*	*	*	*	*
Dts trusurround	o	o	o	o	o	o	o
Dts hd	o	o	o	o	o	o	o
Dts virtual:x	o	o	o	o	o	o	o
Surround sound	*	*	*	*	*	*	*
Audio output power (rms)	2x10W	2x10W	2x10W	2x10W	2x10W	2x12W	2x12W
Subwoofer audio output max power (rms)	-	o	o	o	o	o	o
Connectors i/o							
RF: tv/catv 75 ohms coaxial	*	*	*	*	*	*	*
Composite video/audio in	*	*	*	*	*	*	*
Audio line out via headphone	*	*	*	*	*	*	*
Ypbpr in via vga	*	*	*	*	*	*	*
Vga (pc in: d-sub15)	*	*	*	*	*	*	*
Pc audio in	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV	via Back AV
Hdmi 1 (side)	*	*	*	*	*	*	*
Hdmi 2 (arc) (back)	*	*	*	*	*	*	*
Hdmi 3 (back)	o	o	o	o	o	o	o
Hdmi 4 (back)	o	o	o	o	o	o	o
Hdcp (1.2/ 2.0 / 2.2)	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Digital audio output (optic)	*	*	*	*	*	*	*
Headphone out (main volume control)	o	o	o	o	o	o	o
Headphone out (headphone vol.Control support dual channels)	o	o	o	o	o	o	o
Internal subwoofer	-	o	o	o	o	o	o
Usb1 (2.0) (Side)	*	*	*	*	*	*	*
Usb2 (2.0) (Side)	o	o	o	o	o	o	o
Lan-ethernet (ieee 802.3) Rj45 (for return channel-uk market)	o	o	o	o	o	o	o
Rs232 (in/out)	via VGA	via VGA	via VGA	via VGA	via VGA	via VGA	via VGA
Digital sw update	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)	USB (Single SW)
Picture							
Zoom modes (aspect ratio)	*	*	*	*	*	*	*
Comb filter (2d / 3d)	3D	3D	3D	3D	3D	3D	3D
Cti/lti	*	*	*	*	*	*	*
Digital noise reduction	*	*	*	*	*	*	*
Pseudo (soft) pixellence	o	o	o	o	o	o	o
Dynamic contrast	*	*	*	*	*	*	*
Progressive scan	*	*	*	*	*	*	*
Me/mc (motion estimation motion compensation)	o	o	o	o	o	o	o

TV Specifications	UHD Mainboard MB230						
	43"	49"	50"	55"	58"	65"	75"
Hdr (hdr10, dolby vision, hlg)	o	o	o	o	o	o	o
Hdr10+	o	o	o	o	o	o	o
Blue stretch	o	o	o	o	o	o	o
Micro dimming	o	o	o	o	o	o	o
De-contour	o	o	o	o	o	o	o
Gamut mapping	o	o	o	o	o	o	o
Sdr to hdr	o	o	o	o	o	o	o
Super resolution	o	o	o	o	o	o	o
Connectivity features							
Hbbtv (1.5)	o	o	o	o	o	o	o
Freeview play	o	o	o	o	o	o	o
Htmi5 support (by youtube lb4 2014)	o	o	o	o	o	o	o
4K support (by youtube vp9 2015)	o	o	o	o	o	o	o
Dlna 1.5	o	o	o	o	o	o	o
Dlna 2.1	o	o	o	o	o	o	o
Bluetooth	o	o	o	o	o	o	o
Hotel tv	o	o	o	o	o	o	o
Portal support	o	o	o	o	o	o	o
Wifi (internal)	o	o	o	o	o	o	o
Open internet	o	o	o	o	o	o	o
Bbc iplayer, news, sports, crb	o	o	o	o	o	o	o
Netflix 4k	o	o	o	o	o	o	o
Amazon prime video	o	o	o	o	o	o	o
Amazon alexa ready (works with alexa)	o	o	o	o	o	o	o
Amazon alexa with far-field microphone box	o	o	o	o	o	o	o
Miracast	o	o	o	o	o	o	o
Intel wi-di	o	o	o	o	o	o	o
Wake up on lan (wolan / wowlan)	o	o	o	o	o	o	o
Additional features							
Ntsc playback	Via Back AV	Via Back AV	Via Back AV	Via Back AV	Via Back AV	Via Back AV	Via Back AV
Sleep timer	*	*	*	*	*	*	*
Hotel mode (passive)	*	*	*	*	*	*	*
Child lock	*	*	*	*	*	*	*
No ident timer	*	*	*	*	*	*	*
Usb cloning	o	o	o	o	o	o	o
3 Way switch	o	o	o	o	o	o	o
Feature osd	o	o	o	o	o	o	o
Animated feature osd	o	o	o	o	o	o	o
E-ib	o	o	o	o	o	o	o
Str (suspend to ram = instant on)	*	*	*	*	*	*	*
Digital (dwb)							
Program storage capacity (digital t/t2/c)	800	800	800	800	800	800	800
Program storage capacity (digital s/s2)	10000	10000	10000	10000	10000	10000	10000
Menu languages	English, German, French, Danish, Finnish, Norwegian, Swedish, Croatian, Czech, Dutch, Greek, Bulgarian, Hungarian, Italian, Polish, Portuguese, Romanian, Russian, Slovak, Slovenian, Spanish, Turkish, Lithuanian, Latvian, Estonian, Ukrainian, Serbian, Arabic, Persian, Hebrew, Albanian, Gaelic, Macedonian, Montenegrin, Flemish, Kazakh, Thai, Belarussian						
Digital teletext mheg/mhp (only for uk id tv)	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI	UK: MHEG 5 1.06 PAN EU: VBI
Epg (electronic program guide)	*	*	*	*	*	*	*
Epg timeline schedule	*	*	*	*	*	*	*
Common interface (pcmcia slot for pay channels)	*	*	*	*	*	*	*
Lcn installation (check for country)	*	*	*	*	*	*	*
Communication							
Cec (connected equipment features via hdmi)	o	o	o	o	o	o	o
Operation							
Rocker switch	o	o	o	o	o	o	o
Power supply	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC	220-240V AC
Stand-by power	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W	<0.5W
Supplied extras (related to cabinet and concept)							
Wall hanging kit	o	o	o	o	o	o	o
Certificates							
Weee compliant	*	*	*	*	*	*	*
Rohs compliant	*	*	*	*	*	*	*

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 - o Optional
 - /A
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Vestel Trade Co.

Organize Sanayi Bolgesi, 45030 Manisa/Turkey

Phone: 90 - 236 233 25 82

Fax: 90 - 236 233 25 84

vesteltrade@vestel.com.tr

www.vestelinternational.com

Vestel Germany GmbH

Parkring 6 D-85748 Garching
bei München/Germany

Phone: 49 - 89 55295 - 0

Fax: 49 - 89 55295 - 2000

info@vestel-germany.de

www.vestel-germany.de

Vestel UK Ltd

Vestel House, Waterside Drive
Langley, Berkshire SL3 6EZ

Phone: 44 - 3330 146 400

info@vestel-uk.com

www.vestel.co.uk

Vestel France SASU

17 Rue de la Couture - Parc Icade
BP 10190 - 94563 RUNGIS Cedex/France

Phone: 33 - 1 46 75 00 29

Fax: 33 - 1 41 80 99 31

info@vestel.fr

www.vestel-france.fr

Vestel Benelux B.V.

Stationsplein 45, A1-194
3013 AK Rotterdam,

The Netherlands

Phone: 31 - 10 235 1005

info@vestelbenelux.nl

www.vestelbenelux.nl

Vestel Iberia, S. L.

Paeso Doce Estrellas, 2, 3o. 28042. Madrid, Spain

Phone: 34 - 91 320 63 98

Fax: 34 - 91 320 52 58

vestel@vestel.es

www.vestel.es

Vestel CIS Ltd.

1-st Graivoronovsky Proezd, No.20 Building 16,
109518, Moscow /Russia

Phone: 7 - 095 956 8230

Fax: 7 - 095 956 8233

info@vestel.ru

www.vestel.ru

Vestel Electronics Gulf DMCC

Unit No: ALMAS-06-C ALMAS Tower Plot
No: JLT-PH1-A0

Jumeirah Lakes Towers Dubai Bae

info@vestel-gulf.ae

www.vestel-gulf.ae

TOO Vestel Central Asia

050026 Kazakhsatan/Almaty Aiteke bi 187,
office: 215

Phone: 7 - 727 263 39 39

info@vestel.kz

Vestel Poland Sp. z o.o.

ul. Salsy 2, 02-822 Warszawa, Polska

Phone: 48 22 272 73 11

info@vestel-poland.com

www.vestel-poland.com

Vestel Electronica

Bucharest, 1st District, 2-4 Murmurului Entrance,
014114 Bucharest/Romania

Phone: 40 - 31 425 42 93

Fax: 40 -31 425 42 95

office@vestel.ro

www.vestel.ro



VESTEL

Organize Sanayi Bolgesi, 45030 Manisa/Turkey
Phone: 90 - 236 233 25 82 **Fax:** 90 - 236 233 25 84
vesteltrade@vestel.com.tr · www.vestelinternational.com

Follow us on social media:



/vestelinternational