

Display: 49.5 in, VA, Edge-LED, $3840 \times 2160$ pixels Refresh rate: 60 Hz
Frame interpolation: 1300 PQI (Picture Quality Index) TV tuner: Analog (NTSC/PAL/SECAM), DVB-T2, DVB-C
DVB-T, DVB-S, DVB-S2
SoC: Jazz-L
Cores: 4
Dimensions: $1128.9 \times 654.4 \times 63.2 \mathrm{~mm}$
Weight: 12.2 kg
Network: LAN

Brand, series, model
Information about the brand, series, model and model aliases.

| Brand <br> Name of the company-manufacturer. | Samsung |
| :--- | :--- |
| Series <br> Name of the series, which the model belongs to. | KU6072 |
| Model <br> Designation of the model. | UE50KU6072 |
| Model alias <br> Other known designations of the model. | UE50KU6072UXXH |

## Display

Information about the main characteristics of the display - panel, backlight, resolution, refresh rate, etc.

## Size class

Size class of the display as declared by the manufacturer
Often this is the rounded value of the actual size of the diagonal in inches.

## Diagonal

Approximate diagonal size of the display. If the
manufacturer does not provide such information, the diagonal is calculated from the width and height of the screen.

## Width

Approximate width of the display. If the manufacturer
does not provide such information, the width is calculated from the diagonal and the aspect ratio.

Height
Approximate height of the display. If the manufacturer
does not provide such information, the height is calculated
from the diagonal and the aspect ratio
49.5 in (inches)

1257 mm (millimeters)
125.7 cm (centimeters)
49.4882 in (inches)
4.124 ft (feet)
1095.57 mm (millimeters)
109.557 cm (centimeters)
43.1327 in (inches)
3.5944 ft (feet)
616.258 mm (millimeters)
61.6258 cm (centimeters)
24.2621 in (inches)
2.0218 ft (feet)

## Panel typ

There are various panel technologies. Each has its own specific features - viewing angles, color reproduction, esponse time, brightness/contrast, production cost, etc. The image quality depends directly on the type of the display panel used.

## Panel bit depth

The most widely used panels are those with 6, 8, and 10 bits for each of the RGB components of the pixel. They provide 18 -, 24 -, and 30 -bit color, respectively.

## Colors

The maximum number of colors, which the display is able color enhancing technologies like FRC

## Aspect ratio

The ratio between the horizontal and the vertical side of he display. Some of the standard and widely used aspect ratios are 4:3, 5:4, 16:9 and 16:10

## Resolution

Information about the number of pixels on the horizontal
and vertical side of the screen. A higher resolution allows the display of a more detailed and of higher quality image

## Pixel pitch

The pixel pitch shows the distance from the centers of two neighboring pixels. In displays, which have a native resolution (the TFT ones, for example), the pixel pitch depends on the resolution and the size of the screen

## Pixel density

nformation of the number of pixels in a unit of length
With the decrease of the display size and the increase of its resolution, the pixel density increases.

## Display area

The percentage of the approximate area, taken by the active part of the screen, to the total front area

## Backlight

The backlight is the source of light of the LCD display
panels. The type of backlight determines the image quality
and the color space of the display. There are various backlights such as CCFL, LED, WLED, RGB-LED, and etc.

## 16777216 colors

24 bit
1.778:1

16:9

## $3840 \times 2160$ pixel

Ultra HD (UHD) / 4K / 2160p
0.285 mm (millimeters)
0.0285 cm (centimeters)
0.0112 in (inches)
0.0009 ft (feet)

## 89 ppi (pixels per inch)

34 ppcm (pixels per centimeter)

## $91.39 \%$ (percent)

## Edge-LED

3D
3D displays use various technologies to achieve a 3D effect. Each of these technologies has its own advantages and drawbacks.

## 3D

Information on whether 3D is supported or not

## Frequencies

nformation about the horizontal and vertical refresh rates/frequencies.

## Vertical frequency (digital)

The vertical frequency/refresh rate shows how many
times in a second the image on the screen is refreshed

60 Hz (hertz)

## Frame interpolation

Many smart TV sets use a technology for interpolating (inserting) of intermediate frames between existing ones in order to achieve more fluent visualization, especially for dynamic scenes.

## Interpolation technology

Frame interpolation technologies differ according to the manufacturer and each has its own specific name.

## Interpolation value

The frame interpolation value as provided by the
anufacturer. This value must not be confused with th efresh rate of the screen

## Interpolation measurement unit

## Picture Quality Index

Some manufacturers name commercially the measurement unit of their own interpolation technologies as to denote the degree of interpolation. Very often the
measurement unit is an abbreviation of the frame
interpolation technology in use

## Power supply and consumption

nformation about the power supply and consumption, energy efficiency class, etc.

## 220 V

Permissible voltage tolerance in a 220 -volt electric
system.

## Alternating current frequency

Requirement regarding the alternating current frequency in
the electric system

## Power consumption (sleep)

Power consumption in sleep/stand by/suspend mode.

## Power consumption (maximum)

The maximum possible power consumption

## Energy efficiency class

The energy efficiency class/label provides general idea about the power consumption. There are different energy efficiency classes and each sets its own requirements egarding the power consumption. Some of the existent energy efficiency classes are $A+++, A++, A+A, B, C, D, E, F$, G.

## Dimensions, weight and color

Information about the dimensions and the weight of the specific model with and without stand as well as the colors, in which it is offered to the market

## Width

Width without stand in different measurement units.

## Height

Height without stand in different measurement units.

## Depth

Depth without stand in different measurement units.

## Weight

Weight without stand in different measurement units.

Width with stand
Width with stand in different measurement units.

## Height with stand

Height with stand in different measurement units.

## Depth with stand

Depth with stand in different measurement units.

## Weight with stand

Weight with stand in different measurement units

## Colors

Information about the colors, in which the specific model
offered to the market
1128.9 mm (millimeters)
112.89 cm (centimeters)
44.4449 in (inches)
3.7037 ft (feet)
654.4 mm (millimeters)
65.44 cm (centimeters)
25.7638 in (inches)
2.147 ft (feet)
63.2 mm (millimeters)
6.32 cm (centimeters)
2.4882 in (inches)
0.2073 ft (feet)
12.2 kg (kilograms)
26.9 lbs (pounds)
1128.9 mm (millimeters)
112.89 cm (centimeters) 44.4449 in (inches) 3.7037 ft (feet)
723.7 mm (millimeters)
72.37 cm (centimeters)
28.4921 in (inches)
2.3743 ft (feet)
310.5 mm (millimeters)
31.05 cm (centimeters)
12.2244 in (inches)
1.0187 ft (feet)
13.2 kg (kilograms)
29.1 lbs (pounds)

Black

## Ergonomics

Information about the ergonomic functions - height adjustment, swivel angles, tilt angles, etc.

## VESA mount

Information about whether there is a possibility for wall mounting according to the VESA Mounting Interface Standard (MIS).

## VESA interface

There are many various interfaces under the VESA
standard, which differ in the size of the brackets, the distances between the screw holes and their number.

Information about whether the stand can be dismounted.
Usually, this is required for wall mounting.
Height adjustment
Information about whether the stand allows height No

Landscape/portrait pivot
Some displays have the ability to operate in landscape and portrait mode alike

Left/right swivel
nformation whether the display can be swiveled around
the stand axis

## Forward/backward tilt

Most displays have the ability to be tilted forward and ackward as to provide a more comfortable viewing

No position for the user.

V-shape stand

TV tuner
The TV tuner is a device, which allows the receiving and visualization of a certain type of television signal. There are tuners for digital, analog, cable and satellite television.

|  | Analog (NTSC/PAL/SECAM) |
| :--- | :--- |
| TV tuner | DVB-T2 |
| Information about the TV tuners, which the current model | DVB-C |
| is equipped with. | DVB-T |
|  | DVB-S |
|  | DVB-S2 |

System on Chip (SoC)
information about the central processor, graphic processor and the memory of the model.

## SoC

The system-on-chip (SOC) integrates different hardware components such as CPU, GPU, memory and others.

## CPU cores

The software instructions are performed by the CPU
cores. The higher number of cores allows for the parallel
(simultaneous) processing of more instructions and
chicving hig) proce
processors equipped with $1,2,4,6,8$ and more cores.

## Operating system

Smart TV sets have operating systems, which in terms of functionality and universality bring them close to the computers.

## Operating system (OS)

he operating systems of the smart TV sets feature
interactive user interface technologies for navigation and
other ways of interaction with the smart TV - installing
applications, internet browsing, video calls, sharing
content with other users, playing videos and music, etc.

## Jazz-L

## Audio

nformation about the audio system - number and power of the built-in speakers, supported audio technologies

## Speakers

The speaker is a device, which converts electrical audio
ignals into acoustic vibrations resulting in corresponding sounds.

## $2 \times 10 \mathrm{~W}$ (watts)

## 2 CH down firing + bass reflex

Dolby Digital Plus
DTS

## Camera

Many contemporary desktop monitors and smart TV sets have built-in cameras

## Camera

nformation whether the current model has a built-in No
camera or not.

Network
Supported network technologies and standards for exchanging data with other devices

## Network

Information about the network technologies and
standards supported by the model, which allow for it to standards supported by the model, which allow for
connect to and communicate with other devices.

LAN
Wi-Fi
802.11a (IEEE 802.11a-1999)
802.11 b (IEEE 802.11b-1999)
802.11 g (IEEE 802.11g-2003)
802.11n (IEEE 802.11n-2009)

Wi-Fi Direct
DLNA

## Connectivity

Available connectivity ports, slots and interfaces.

## Connectivity

Information about the available connectivity ports, slots
and interfaces such as USB, infrared port, SD card slot,
audio/video and network interfaces, etc.
$2 \times$ USB 2.0
$1 \times$ Ethernet RJ45
$3 \times$ HDMI 2.0 (ARC; CEC)
$1 \times$ Satellite In (Main; F-type female)
$1 \times$ AV Composite In 3.5 mm jack
$1 \times$ Video Component $\ln 3.5 \mathrm{~mm}$ jack
$1 \times$ Optical Audio Out
$1 \times$ Antenna (RF) (female)
$1 \times \mathrm{Cl}+1.3$

## Features

Some additional functional features of the model.

## Features

information about additional software features, technologies, functions and services of the model
Anynet+ (HDMI-CEC)
Auto Motion Plus
Contrast Enhancer
Digital Clean View
Extended PVR
HDCP (High-bandwidth Digital Content Protection) 2.2
HDR
Light sensor
Picture-in-Picture
PurColor
Smart View 2.0
UHD Dimming
UHD Upscaling
Ultra Clean View

Image file formats
Smart TV sets allow the display of different image file formats.

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Image file formats
formation about some of the main imag
supported by the current model.
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Audio file formats
Smart TV sets allow playing different audio file formats.

Audio file formats/codecs
Information about some of the main audio file formats/codecs supported by the current model.

AAC (Advanced Audio Coding)
FLAC (Free Lossless Audio Codec, flac)
M4A (MPEG-4 Audio, .m4a)
MIDI
MP3 (MPEG-2 Audio Layer II, .mp3)
OGG (.ogg, .ogv, .oga, .ogx, .spx, .opus)
WMA (Windows Media Audio, .wma)
WAV (Waveform Audio File Format, .wav, .wave)
APE
AIFF
ALAC

## Video file formats

Smart TV sets allow playing various video file formats.

## Video file formats/codecs

Information about some of the main video file formats/codecs supported by the current model.

3GPP (3rd Generation Partnership Project, .3gp)
AVI (Audio Video Interleaved, .avi)
ASF (Advanced Systems Format, .asf .wma .wmv)
DivX (.avi, . divx, .mkv)
Flash Video (.flv, $f 4 \mathrm{v}, . \mathrm{f} 4 \mathrm{p}, . \mathrm{f4a}, \mathrm{f} 4 \mathrm{~b}$ )
H. 263
H. 264 / MPEG-4 Part 10 / AVC video
H. 265 / MPEG-H Part 2 / HEVC

MKV (Matroska Multimedia Container, .mkv .mk3d .mka .mks)
M2TS (Blu-ray Disc Audio-Video (BDAV) MPEG-2 Transport Stream, .m2ts, .MTS)

MP4 (MPEG-4 Part 14, .mp4, .m4a, .m4p, .m4b, .m4r, .m4v)
MPEG-4
TS (MPEG Transport Stream, .ts, .tsv, .tsa)
VC-1
VP7
VP8
VP9
VOB (Video Object. .VOB)
VRO (DVD-VR, .VRO)
VRO (D
WebM
WMV (Windows Media Video, .wmv)

## Certificates, standards and licenses

Licenses from regulatory agencies, standards, certificates

Certificates, standards and licenses
List of the standards, certificates and licenses
supported/received by the current model.

## Accessories

Often the packaging of desktop monitors and smart TV sets includes accessories for them

## Accessories

Information about some of the main accessories included the standard packaging of the current model.
3.5 mm component adapter 3.5 mm composite adapter Remote control - TM1240A

