



Experience first-class television.

2017/2018



Metz Novum

Our values shape our actions

Technology with vision. Made in Germany.

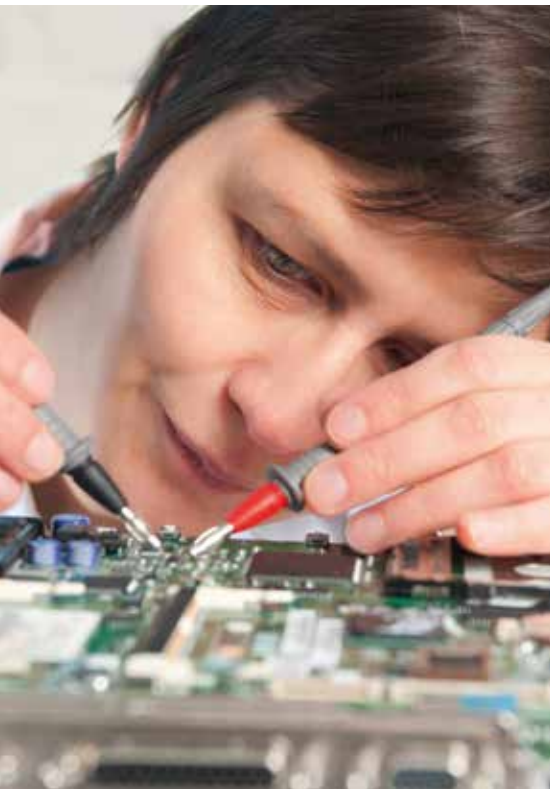
With a Metz television you'll always be up to date. That's because we are already thinking about the future today: our first-class televisions offer the most advanced technology to optimally equip you for the future – especially when it comes to the integration of television and the Internet. To guarantee our exceptional quality and continuously introduce new innovations, we develop and manufacture televisions in Germany.

Metz – always first class.





Adding value to be
fit for the future.
Metz – always first class.



Technical perfection

Breathtakingly clear pictures, brilliant immersive sound: Metz televisions stand for technical perfection. To achieve this we use technologies that are both state-of-the-art and reliable. To ensure we live up to our high technical standards at all times, we develop and manufacture televisions in Germany.

User-friendliness

As simple as possible: thanks to the innovative Tri-Star operating system, Metz televisions can be operated with ease via the remote control. Menu navigation is self-explanatory and the range of functions can be extended or reduced, as the user wishes. Using a Home button, all functions can even be reached from one central point.

Ready for the future

Metz offers products with a future. As television and the Internet increasingly merge, our customers will find themselves perfectly prepared. In future, viewers will want to watch television without time constraints – something modern Metz TVs already offer today. From media streaming with the Metz Media System to HbbTV* or recording with the integrated hard disk recorder: with Metz, it's the customer who designs the TV schedule.



First-class service

Metz televisions are available exclusively from authorised dealers, and there is a good reason for this: we want our customers to benefit from expert advice and top-quality service. After all, all you should have to do with your television is enjoy it.

Exceptional quality

Metz – Made in Germany:

For decades, this seal of quality has stood for first-class televisions that combine cutting-edge technology with exceptional quality. Metz is the perfect choice for discerning customers looking for an exceptional viewing experience. And we are dedicated to making sure it stays that way.



* HbbTV availability is dependent on the station and is therefore not offered in all countries.

Simply superior television.



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Metz Novum



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Metz Topas

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16 Be your own director

Your Metz television makes you independent of the television schedule.



With a Metz.



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Metz Cosmo



66 Total relaxation on the safe side

From convenient home delivery to professional customer service.



With Metz, perfect sound sounds perfect.

Television is more than just visual. Only when picture and sound harmonise perfectly does television become a unique experience. That's why when it comes to its televisions, Metz places the highest emphasis on excellent sound quality. Signal technology developed in-house and high-performance sound systems ensure a listening experience that does justice even to a recording of a classical concert. The sound of a Metz television is unique and will transport you to a new audio dimension.



MetzSound*

A first-class picture calls for first-class sound.



At Metz, sound is key.

Metz televisions are also perfectly equipped in terms of sound. So you don't need an additional sound system. For you, this means no additional set up and no extra cables.





The Metz Topas's (see figure) speakers are behind a removable textile cover.

MetzSoundPlus – First-class sound quality

The new digital signal technology MetzSoundPlus optimises the audio signal for an ultra-clear and nuance-rich, full sound developed by Metz. High-performance speakers deliver superb

sound. Thanks to the parametric equaliser, the speakers can be optimally aligned to the internal amplifier – ensuring brilliant treble and bass reproduction.

MetzSoundPro – a new dimension in audio

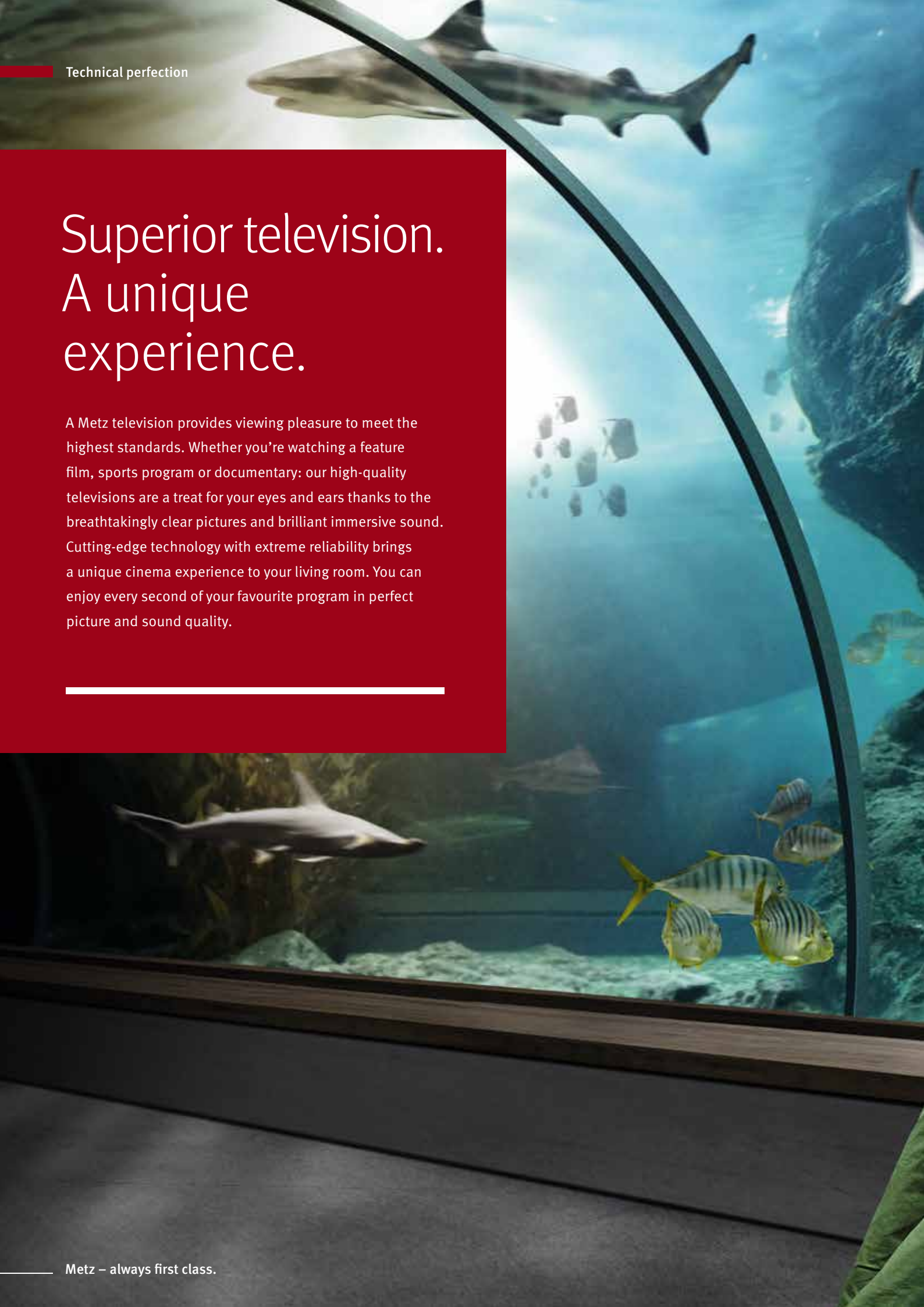
With MetzSoundPro, Metz opens up a new dimension in sound quality. The high-performance integrated sound system, with its 4 speakers and up to 6 audio output stages* per device, delivers impressively rich and clean sound.

The result:

a unique audio experience that will fully delight even the more demanding listener. In some devices, sophisticated speaker concepts are employed over and above the high-quality 2-way system*. Sealing the speakers significantly enhances bass reproduction.

What's more, MetzSoundPro also provides exceptionally authentic playback. Even at high volumes, delicate nuances can be heard clearly and naturally. Such exceptional sound quality is also achieved by Metz-developed sound processing technology, which controls the sound to perfection, ensuring that treble and bass are equally flawless. With the MetzSurround setting, film fans can even enjoy sound effects that fill the room without additional speakers. MetzSoundPro takes television into the realms of premium enjoyment: a treat for the ears.

* Technical features of set depend on model.



Technical perfection

Superior television. A unique experience.

A Metz television provides viewing pleasure to meet the highest standards. Whether you're watching a feature film, sports program or documentary: our high-quality televisions are a treat for your eyes and ears thanks to the breathtakingly clear pictures and brilliant immersive sound. Cutting-edge technology with extreme reliability brings a unique cinema experience to your living room. You can enjoy every second of your favourite program in perfect picture and sound quality.



MetzVision*

First-class picture quality for the ultimate viewing pleasure.

2000Hz
MetzVision

1000Hz
MetzVision

800Hz
MetzVision

400Hz
MetzVision

200Hz
MetzVision

Further information → P. 74–75

Decades of experience in developing and producing the highest-quality televisions meets state-of-the-art chip technology. Only the best and fastest processors operate in every TV. Together with our MetzVision image technology, this strong foundation allows for excellent image quality with the highest levels of sharpness, colour and contrast. And, thanks to the highest-quality panel technology, it can be viewed from

a tremendously broad range of viewing angles. Excellent image sharpness even during high-motion scenes: MetzVision picture technology optimises image processing for the perfect display of quick movements. A range of technologies, such as dynamic motion compensation (DMC) and dynamic image clarity optimisation, guarantee a sharp and smooth display of motion.

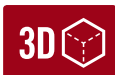


HDR – High Dynamic Range* and 10Bit colour depth*

Experience television down to the last detail:

The new HDR process aims to create an even more brilliant television picture. HDR (high dynamic range) pictures can depict more brightness gradations than the previous standard. This means much more detail is visible in particularly light or dark areas, and the fineness of the gradations between them is significantly optimised. This is called “10-bit colour depth”, which defines the number of brightness gradations per colour. Thanks to the greatly improved contrast ratio

and finer gradients in colour depth, colour reproduction is visibly enhanced: HDR and 10-bit colour depth ensure exceptionally high contrast and a broad spectrum of colours. Film scenes thus appear extraordinarily natural, and more intense and vibrant images can be produced than ever before. The HDR-ready Metz TV models support the two currently most important HDR standards, HDR10 and HLG.



3D technology with OLED – The cinema experience for your own home.

Cinema-style film viewing:

The 3D technology at Metz Novum OLED provides an exceptionally realistic television experience. Metz achieves this by means of circular polarisation: a wafer-thin film on the OLED screen and the Metz passive 3D glasses combine to create impressive spatial depth – without any annoying flicker effects

or restrictions of the field of vision if the viewer turns his or her head. Even conventional films can be watched in 3D. Two touches of a button are all it takes for the Metz TV to convert a 2D film into 3D.

Timeshift function*

Be your own director!

Fetch a drink, answer the phone or watch that last goal one more time. With the timeshift function, you can pause live digital TV at any time, watch the previous scene again or even view TV “in parallel”. Metz puts you in the director’s chair! With the timeshift function from Metz, you call the shots.



Play the program



You’re the director and you decide in what order to watch your programs – whether it’s a soap, a crime drama or live sports. Your Metz makes you independent of the program schedule: once you’ve stopped or rewound a program, it only continues when you want it to. All it takes is a touch of the button on your remote control, and you’re back at the heart of the action.



Pause the program



You’re watching your favourite TV program – and the phone rings. Simply press the pause button. The timeshift function automatically records the current program for you. You can take your time on the phone before picking up where you left off. If you want to finish watching the program later, simply transfer it to the permanent recording memory (hard disk recorder).



Rewind the program



Want to laugh one more time at that hilarious film scene or relive that fantastic goal? Just rewind! With your Metz television you can replay any scene as often as you like while the program is still running – without missing anything. After the replay the program resumes exactly where you stopped it before.



Hard disk recorder*

Viewing pleasure independent of the regular schedule. Thanks to the Metz digital recorder you can be your own TV director – and operating it is child's play. You need never miss your favourite shows again and can watch your favourite films as often as you like. The twin recording function*, which is unique to the television market, also allows you to record two programs** while watching another on a different channel. With the timeshift function, you can pause and resume live TV whenever you feel like and as often as you want.

USB recording

With the USB recording function you can record TV programs onto an external USB storage medium and play them back whenever you like. Programming is done via the integrated electronic program guide (EPG). Devices without an integrated hard disk recorder (PVR) must be activated.

See www.metz-ce.com or ask your specialist dealer.



** Unless CI encryption restrictions apply and only on one transponder.

OLED - Organic Light Emitting Diode

The best television experience you'll ever have: OLED



OLED screen technology delivers unprecedented image quality: 33 million sub-pixels, each of which can be individually controlled, are used in our sophisticated and reliable Metz OLED screens. To display real black, dark image areas can be turned off with pixel-precise accuracy. This enables previously unachievable levels of black, which also means particularly high-contrast images with lifelike colours. The 10-bit colour depth with up to four times finer gradation ensures smooth

transitions and bright and natural colour rendering – from every angle and with evenly balanced illumination. The self-illuminating pixels enable an ultra-fast reaction time: the screen reacts more quickly and more fluidly than ever before. Breathtakingly sharp thanks to UHD resolution (3840 x 2160 pixels), with HDR (High Dynamic Range) and flicker-free, 3D polarised filter technology. Experience a whole new viewing dimension.



OLED



UHD1 by ASTRA

Metz Novum

The time has
come for OLED!





Metz Novum 65 OLED twin R
HEIMKINO 1,1
Testurteil:
überragend
Referenzklasse 12/1-2017

audiovision
SEHR GUT
METZ NOVUM 65 OLED TWIN R

SATVISION
Metz Novum 65 OLED twin R
SEHR GUT 93,6 %
65"-UHD-OLED-TV - 12/2016
www.satvision.de

HiFi VISION
17/2017: Metz Novum 65 OLED twin R
Goldklasse
Preis/Leistung **sehr gut**
Note **★★★★★**

Novum

16:9 OLED-TV

- Brilliant black with a high-gloss polished precious metal surround
- 55" to 65" screen size

The new dimension in television.

The new Metz Novum OLED offers a completely new viewing experience thanks to the latest and best OLED screen technology. The Metz Novum OLED uniquely combines all of Metz's typical benefits with the most breathtaking screen technology of

our time: a combination of a UHD 3D OLED screen, our best sound system, the unique Metz Tri-Star operating concept, a twin multi-tuner, a 1 TB digital recorder, an elegant metal swivel base and an additional OLED display for showing channel names or the time.



The Novum is also available as a stand-alone solution (see cover picture).



The Novum shows its superiority with its 2-way active system with 80-watt speakers and wooden housing.



The informative and configurable OLED plain text display and elegant metal swivel base round off the Novum's performance.

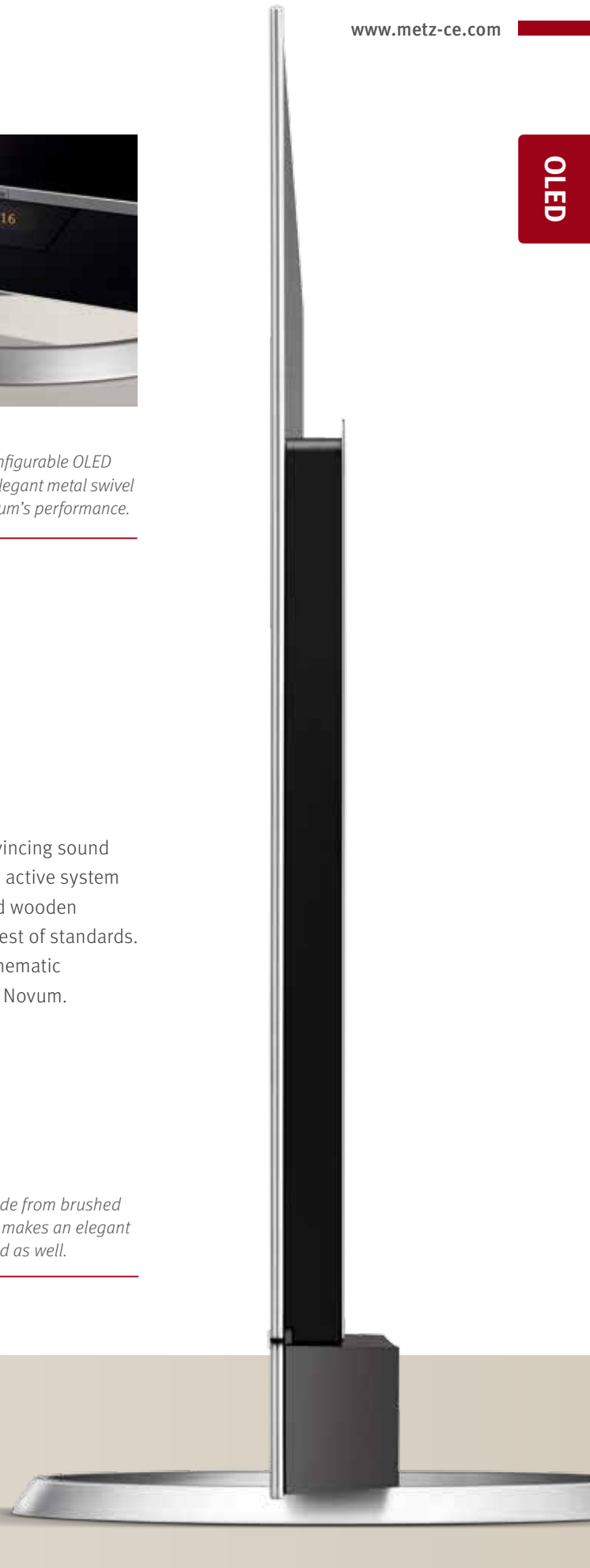
Cinema experience at your home.

Perfect picture and sound: true black display, outstanding contrast, vivid colours. The completely evenly illuminated screen of the Novum OLED will impress with almost consistent picture quality from every viewing angle. The integrated sound module

ensures an equally convincing sound performance: our 2-way active system with 80-watt output and wooden housing meets the highest of standards. Experience your own cinematic moments with the Metz Novum.



With its back panel made from brushed aluminium, the Novum makes an elegant impression from behind as well.



The Novum range at a glance

All the models in the Novum range offer:

Technical perfection

- **2000Hz MetzVision picture technology:**
 - Brilliant sharp UHD resolution: 3840 x 2160 pixels
 - 3D technology
 - OLED technology for unmatched image quality with high energy efficiency by 33 million individually controllable subpixels and adaption to picture content and room lighting conditions (Lux automatic contrast)
 - HDR (High Dynamic Range) and 10-bit colour depth
 - Perfect sharpness, perfect contrast and DCI
 - Dynamic motion compensation (DMC) for fluid video playback und optimal film recognition for the best vertical Resolution (FMD)
 - Comprehensive colour management for brilliant colours, natural skin tone and perfect display of different video sources via pre-defined profiles
- **High-quality audio:**
 - MetzSoundPro with rich, immersive sound and a highly efficient 2-way active system

Exceptional quality

- Metz televisions are built in accordance with the highest quality standards

Ready for the future

- **Integrated:**
 - Hard disk recorder (PVR) with 1 TB storage capacity for approx. 1000 hours of digital SDTV or approx. 200 hours of HDTV quality and twin recording
 - Twin multi-tuner for digital and analogue TV via cable and aerial as well as digital satellite (2x DVB-C / -T2 / -S2)
 - UHDTV/HDTV reception
 - USB port for videos, photos and audio*
 - Integrated network function via LAN and WiFi
 - Integrated *Bluetooth*® function with Qualcomm® aptX™ low latency
 - Double CI+ slot for 2 CA modules (for pay TV)
- **External expandability:**
 - MetzRemote app for operation via smartphone or tablet computer (iOS and Android)
- **Connection-friendly:**
 - USB recording
 - Blu-ray/DVD players/recorders, AV receivers, video recorders, digital cameras, surround sound systems and games consoles
 - 4xHDMI interfaces (1 with ARC) with HDCP 2.2 (4K 60/50p 4:4:4), 2x USB (with 1xUSB 3.0), Cinch connectors (FBAS/L/R) and EURO-AV socket via enclosed adapter, audio output: constant / variable, digital audio output (optical), headphone socket, PC input possible via HDMI adapter

User-friendliness

- Metz media system with Media Player
- Network function (Multiroom, Smart TV portal, HbbTV** and internet radio)
- Award-winning Tri-Star operating concept – can be set to three levels of complexity according to your requirements
- Three freely configurable function buttons for quick access to up to 30 functions
- OLED plain-text display for channel name or time
- Timeshift function
- Twin recording function for convenient recording
- Top teletext functionality with convenience functions and 2,000-page memory for fast access
- Integrated electronic user guide
- Electronic program guide (EPG)
- CEC function for integrating external HDMI devices into the Metz operating system
- Database of remote control systems for use as universal controls

First-class service

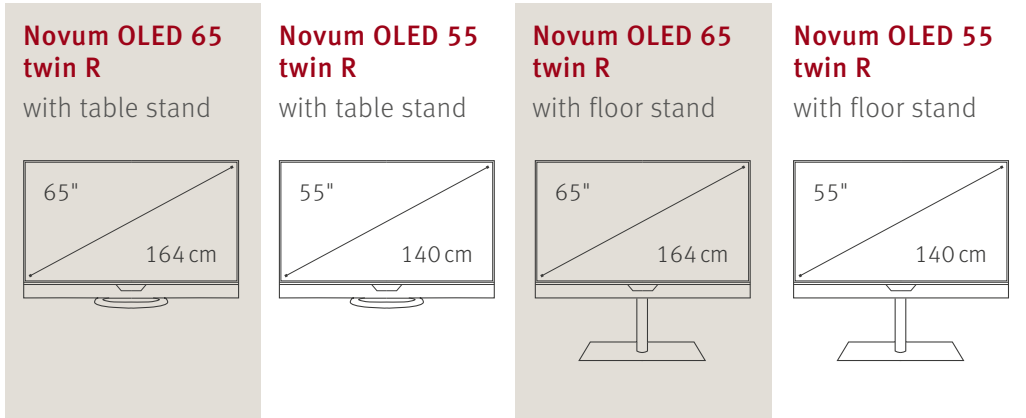
- Enjoy the benefits of expert advice and superior service from specialist dealers

* depending on application

** HbbTV availability is dependent on the station and is therefore not offered in all countries.



OLED



Weight:

with table / floor stand
without table / floor stand

23,6 kg	20,3 kg	46,9 kg	43,5 kg
22,2kg	18,8 kg	22,2 kg	18,8 kg

Dimensions W × H × D:

with table / floor stand
without table / floor stand

145,2×94,1×42,0 cm	122,9×81,5×42,0 cm	145,2×140,1×41,0 cm	122,9×127,8×41,0 cm
145,2×91,1×7,3 cm	122,9×78,8×8,3 cm	145,2×91,1×7,3 cm	122,9×78,8×8,3 cm

Energy efficiency category:

B	B	B	B
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Wall-mounting set:

Order No.
Anchoring supports
Distance W/H

616990051.A1	616990043.A1	616990051.A1	616990043.A1
4	4	4	4
VESA 40 cm × 40 cm	VESA 40 cm × 30 cm	VESA 40 cm × 40 cm	VESA 40 cm × 30 cm

Accessories included:

Rotatable metal table stand; Rotation angle: +/- 30°	Rotatable metal floor stand; Rotation angle: +/- 30°
Remote control RM 19	Remote control RM 19
Two pairs of 3D glasses	Two pairs of 3D glasses

Colour:

Brilliant black / high-gloss polished precious metal surround

Basic configuration:

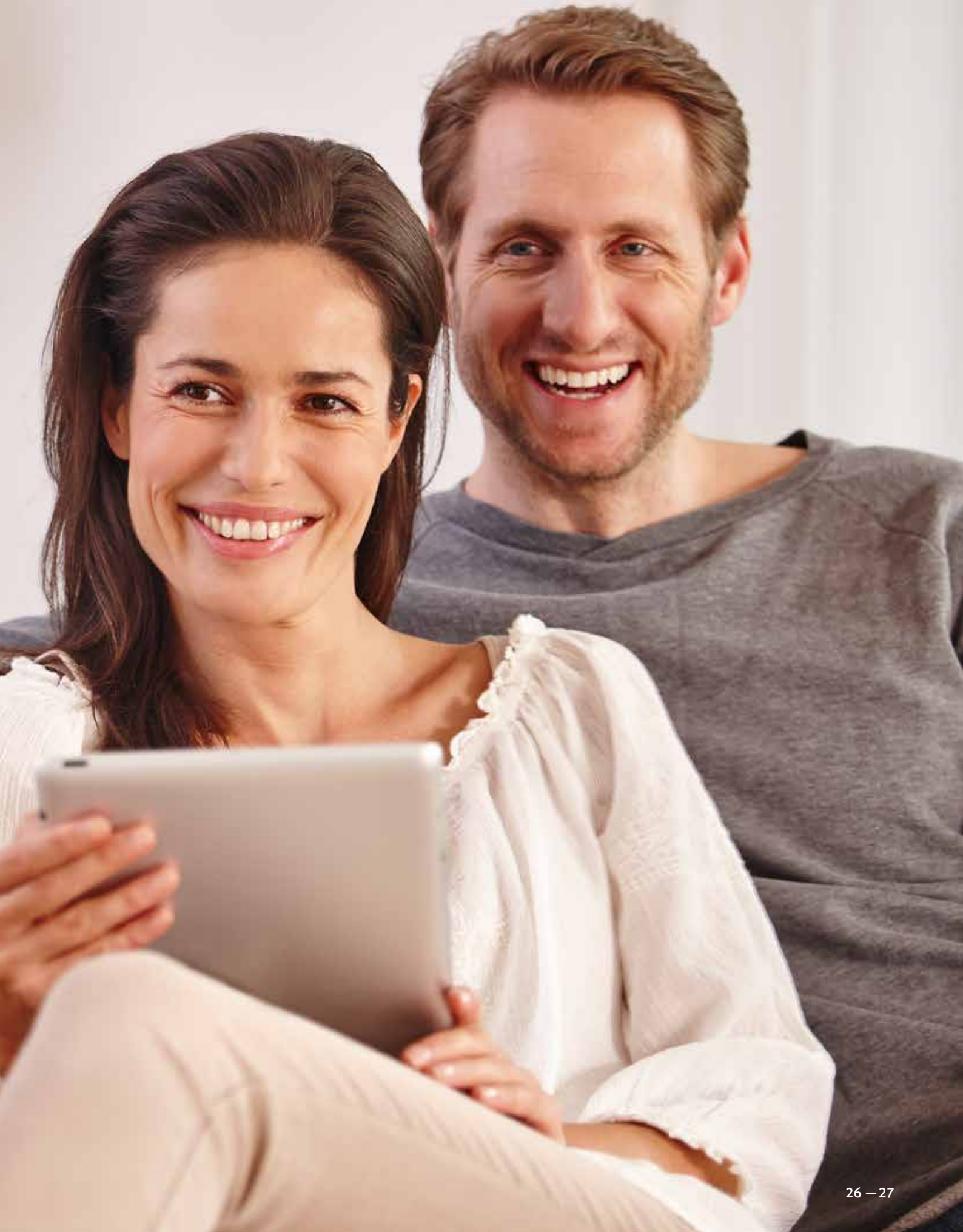


Qualcomm aptX™ low latency



Take a carefree look into the future today.

With a Metz television you'll always be up to date. Today's latest technology guarantees entertainment at its best, even in the future – all thanks to the innovative Metz Media System, which makes it possible to access numerous online services and over 50,000 Internet radio stations. With their advanced technology, Metz televisions save valuable energy – as a responsible and environmentally-aware company, Metz is looking to the future.



Metz Media System

A centre with an exceptional touch.

media
SYSTEM

Further information → P. 74–75



Metz turns your television into a multimedia centre. The integrated Metz Media System makes it simple to play videos and music, and display photos through your television. Your Metz TV retrieves the digital data from your PC, network, digital camera, smartphone or tablet PC. Thus allowing you to set up a multimedia network in your home, conveniently controlled using your Metz remote control, or if you prefer, using your tablet PC or smartphone, thanks to the MetzRemote app. Moreover, the Metz Media System gives you access to Internet radio and to the

many online services with the new television standard HbbTV*. Whilst watching a TV program, you can retrieve additional information via the internet – or watch programs you've missed using the broadcasters' media libraries and access additional services from TV broadcasters. The digital HbbTV teletext and the electronic program guide (EPG) also open up many new and interesting possibilities.

* HbbTV availability is dependent on the station and is therefore not offered in all countries.



The Metz Media Player allows you to quickly and simply access your multimedia content. And all from practically any compatible device on your home network or via USB.

Smarter television viewing. Included in your television.



Videos



From holiday videos to feature films: with the Metz Media System you can stream videos, for example from the hard drive on your notebook, directly to your television.

Photos



An impressive display for your holiday photos: no problem thanks to the convenient slide show function in the Metz Media System. And you can do this from a digital camera, a USB device, your PC or any other device in your network.

Local area network



You can use the Metz Media System to integrate your television in your own home network along with your PC or notebook – and conveniently exchange stored data.

HbbTV



Make use of online services via HbbTV* (access via the red star button on the remote control): with the Metz Media System it is possible, for example, to display information on current program schedules – or to retrieve programs from TV media libraries.

Music



Turn your television into a hi-fi system: with the Metz Media System you can listen to digital music files on your TV.

USB



From photos to videos or music: with the Metz Media System you can transfer files directly from a USB memory stick to your television – and run them via the Media Player.

Computer



Connect your television with a PC or notebook: the Metz Media System enables you to transfer photos, films and music from your hard drive to your TV set.

Media Player

Functions: LAN (DLNA), HD and USB playback **Streaming Client:** UPnP-AV/DLNA 1.51 compatible Digital Media Player (DMP) and Digital Media Renderer (DMR)

Media formats

Photo: JPEG (.jpg); PNG (.png) **Container:** MPEG-TS (.ts, .mts, .m2ts); MPEG-PS (.mpg, .mpeg, .vob); MPEG-4 (.mp4, .m4v); Quicktime (.mov); Matroska (.mkv); MP3 (.mp3); 3gp (.3gp); AVI (.avi); ASF (.wmv, .wma, .asf); FLV (.flv, .f4v) **Audio Codecs:** MPEG-1; MPEG-2 Part 3, MP3 (MPEG Audio Layer III); AAC (MPEG-2 Part 7, MPEG-4 Part 3, HE-AAC); AC3 (Dolby Digital); PCM; Windows Media Audio 9; Windows Media Audio 10 **Video Codecs:** H.262 (MPEG-2 Part 2); H.264 (AVC, MPEG-4 Part 10); Xvid (MPEG-4 Part 2); Windows Media Video 9 **Subtitle Codecs:** DVBSUB, DVDSUB, PGSSUB, UTF-8





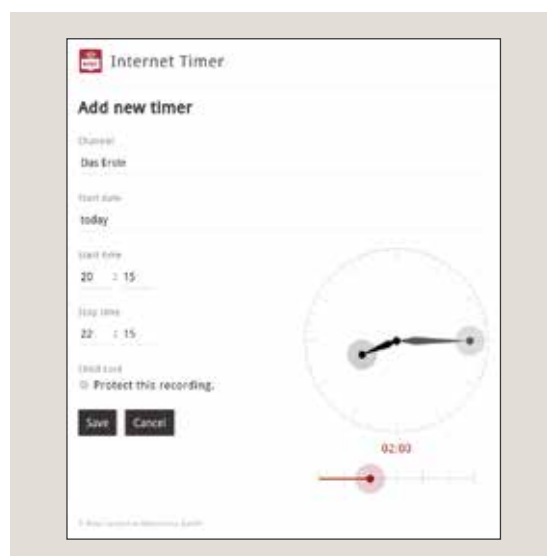
MetzRemote app *

MetzRemote provides all the functions of the convenient Metz remote control in various, easy-to-read display views. The application combines all the benefits of a remote control with the additional advantages of modern iOS and Android smartphones. The app shows all of the television's EPG data, displays the programmed channel list including programme information, allows channels to be sorted and much more. If desired, the MetzRemote app can even be used to control several Metz televisions and turn them on with the Wake On LAN function. The internet timer described below is also directly integrated into the app. MetzRemote is available for free in the Apple iTunes Store and in the Google Play Store.



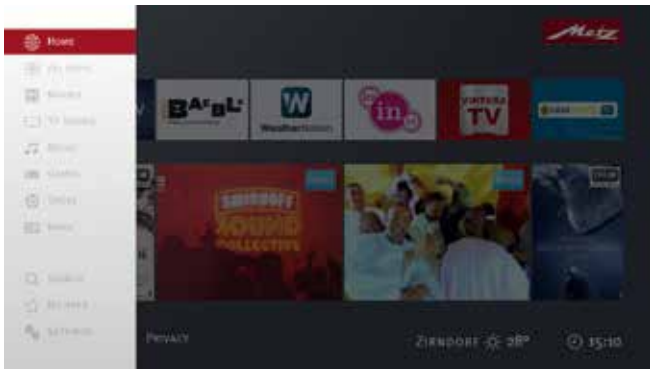
Internet timer - smart programming *

You're out and about and you've forgotten to program your Metz television? No problem, because with the new Metz Remote Timer you can simply use your smartphone to do it – and record your favourite programme at the desired time. Those with a Metz television need only to register once at record.metz.de with their activation code, any login name and a personal password. Rather than manually inputting the activation code, users can simply scan the QR code shown on the screen of their Metz TV. Whether with your smartphone, tablet or laptop, you can program your recordings using practically any internet browser, independent of the operating system.



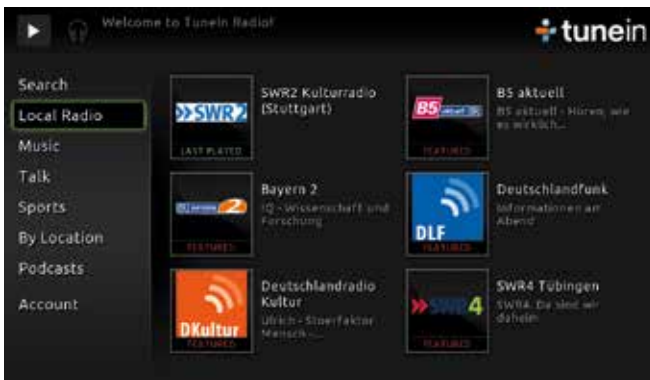
* Technical features of set depend on model.

** depending on reception



Smart TV portal *

You can access numerous online services using this application gallery. The portal offers plenty of default services, news, information and broadcaster-specific content such as media libraries. In addition, you can even add your own webpages.



Internet radio *

In addition to the integrated DVB radio function, Metz devices with the Metz Media System now also provide access to an Internet radio function. Televisions connected to the Internet via the home network can establish a direct connection to TuneIn's web radio service, which provides a huge range of radio stations and streamed content. It goes without saying that the Metz television screen can be deactivated for this. With a selection of over 50,000 radio stations, there is something to suit every taste, from small, local broadcasters to large, international radio stations.



Multiroom TV function *

A program running on a Metz television with a network function and PVR can also be watched on another television or compatible playback device. This can be done if you start to watch a program on your main device and then take it to another compatible device within your home network using the multiroom function, e.g. the television in the bedroom. The Metz television also offer the option to allow compatible devices (e.g. PCs, smartphones, tablets or other televisions) in the home network access to PVR recordings and live programmes (PVR and live-streaming server).





Twin multi-tuner (PIP)*

Watch two different channels at the same time

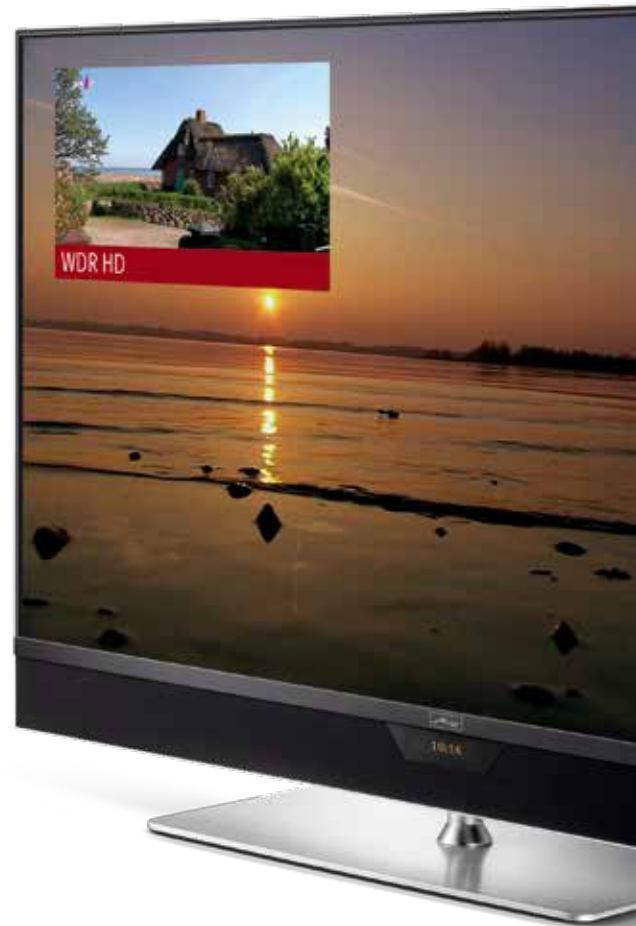
The practical picture-in-picture (PIP) function** makes it possible to easily watch two programs simultaneously – during the advertising break, for example – or alternatively in split-screen mode, which is particularly easy to watch. In this way, you can use teletext on one channel whilst watching another at the same time. Thanks to the HD-PIP function*, you can also watch a HD channel with picture-in-picture mode.



Bluetooth®* with Qualcomm® aptX™ low latency

Wireless listening pleasure

The days of a tangle of cables are over: thanks to wireless *Bluetooth*® technology in Metz televisions, you can pair a *Bluetooth*® headset directly with the television, allowing you to enjoy wireless listening pleasure. Music from smartphones and tablets can also be streamed to the Metz television via *Bluetooth*®, turning it into a high-fidelity music amplifier.*** AptXLL provides high-quality audio transmission.



Split-screen function and picture-in-picture (PIP) function

Data protection

For Metz, the privacy protection is more than just a buzzword: in addition to first-class picture and sound quality and intuitive operation, the focus also lies on protecting your private data. In order to meet this requirement, various mechanisms are implemented into Metz televisions that give the user control over data transmission between the television and the internet, without having to compromise on convenient functions in your private home network. For example, Metz televisions offer the possibility of deleting cookies manually or automatically when turning off. Metz has also developed a two-stage process for the HbbTV online service that enables customers to approve data transmission only after manually pressing a button. Also, thanks to regular software and security updates, we ensure that Metz televisions are safe and protected against “outside” attacks. Our easy-to-understand privacy policy explains all aspects of data protection – by agreeing or declining you determine whether your Metz TV can communicate with the outside world.

* Technical features of set depend on model.

** depending on reception

*** supported audio profile A2DP

The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Metz is under license. Other trademarks and trade names are those of their respective owners.

UHD – Ultra High Definition

A picture sharper than reality itself.

UHD 

With a resolution of 3840 x 2160 pixels, Ultra High Definition means unique picture sharpness: UHD screens offer four times the resolution of standard Full HD. UHD has four pixels to Full HD's one. This total of around 8 million pixels thus provides a considerably more detailed, sharper picture. Even very large sized televisions can be viewed from close

distances without a loss of quality – depending upon the image source. Ready for the future: UHD reception via DVB-S2 (satellite) is already integrated thanks to state-of-the-art chip sets. UHD video content can also be played via USB and network connections. For those who want the future of television in their living room today.



UHD



UHD1 by ASTRA



Metz Topas

A virtuoso of
technical perfection.



Topas

16:9 UHD-TV

UHD – brilliant picture technology.

- *Brilliant black with an anodised silver brushed aluminium surround*
- *43" to 55" screen size*

When good is not good enough: the Metz Topas offers first-class viewing pleasure. Its advanced UHD technology provides outstanding sharpness and detail. HDR (high dynamic range) guarantees a brilliant and natural colour display that will impress you with its rich contrast levels. UHD content can be played back

using USB and network connections and the twin multi-tuner receives UHD content via satellite (DVB-S2). Numerous convenient functions such as the integrated digital recorder with 1 terabyte recording capacity complete this extraordinary television.



Informative and configurable OLED plain text display.



A rotatable table stand with a brushed aluminium finish provides the perfect base for the Topas.



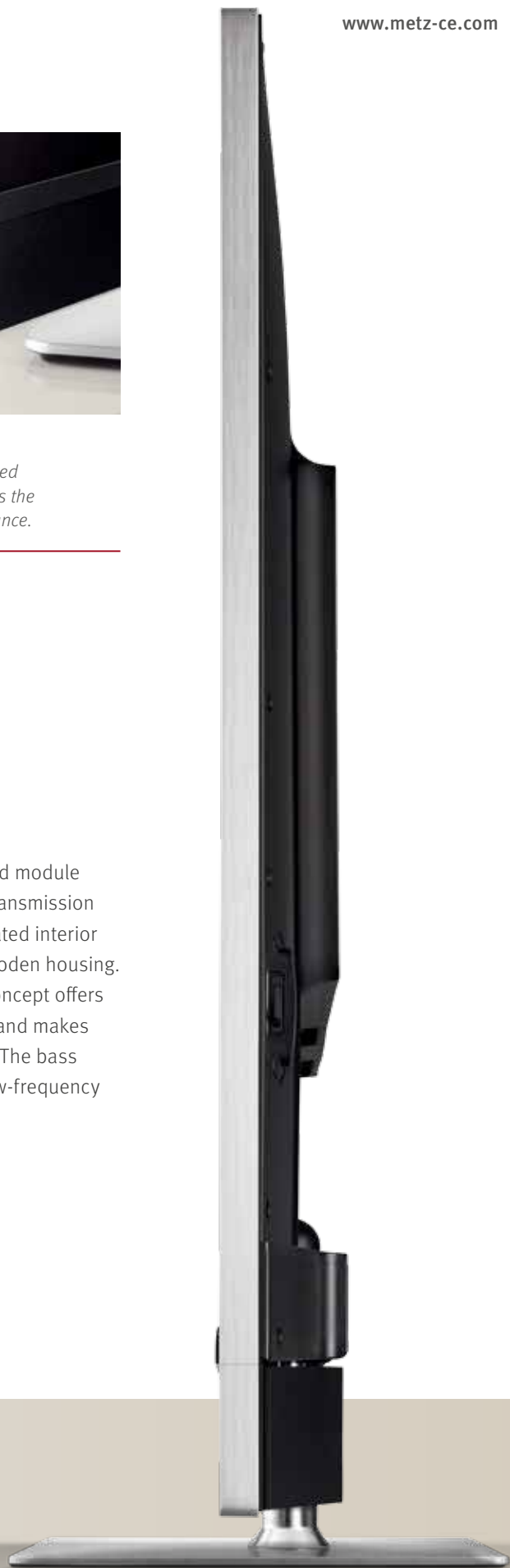
The anodised silver brushed aluminium surround lends the Topas an elegant appearance.

Please listen! It's worth it.

MetzSoundPro technology, developed by Metz, delivers the impressive sound quality to match. The highly efficient Topas 2-way active system provides 2 x 30 watt plus 2 x 10 watt output through four speakers. Individual control of the independent amplifiers makes for an absolutely clear, richly nuanced and full sound. Despite its

slim build, the Topas sound module produces an impressive transmission range thanks to sophisticated interior construction and solid wooden housing. The mid-high frequency concept offers superbly stable spatiality and makes for excellent intelligibility. The bass speakers provide clean low-frequency reproduction.

Operating is intuitive and convenient with the clearly designed RM19 remote control.



The Topas range at a glance

All the models in the Topas range offer:

Technical perfection

- **1000Hz MetzVision picture technology:**
 - Brilliant sharp UHD resolution: 3840 x 2160 pixels
 - LED backlight for optimal energy efficiency and brilliant display thanks to smart backlight adaption to picture content and room lighting conditions (Lux automatic contrast)
 - Perfect sharpness, perfect contrast and DCI
 - Dynamic motion compensation (DMC) for fluid video playback und optimal film recognition for the best vertical Resolution (FMD)
 - Comprehensive colour management for brilliant colours, natural skin tone and perfect display of different video sources via pre-defined profiles
- **High-quality audio:**
 - MetzSoundPro with rich, immersive sound and a highly efficient 2-way active system

Exceptional quality

- Metz televisions are built in accordance with the highest quality standards

Ready for the future

- **Integrated:**
 - Hard disk recorder (PVR) with 1 TB storage capacity for approx. 1000 hours of digital SDTV or approx. 200 hours of HDTV quality and twin recording
 - Twin multi-tuner for digital and analogue TV via cable and aerial as well as digital satellite (2x DVB-C / -T2 / -S2)
 - UHD TV/HDTV reception
 - USB port for videos, photos and audio*
 - Integrated network function via LAN and WiFi
 - Integrated *Bluetooth*® function with Qualcomm® aptX™ low latency
 - Double CI+ slot for 2 CA modules (for pay TV)
- **External expandability:**
 - MetzRemote app for operation via smartphone or tablet computer (iOS and Android)
- **Connection-friendly:**
 - USB recording
 - Blu-ray/DVD players/recorders, AV receivers, video recorders, digital cameras, surround sound systems and games consoles
 - 4xHDMI interfaces (1 with ARC) with HDCP 2.2 (4K 60/50p 4:4:4), 2x USB (with 1xUSB 3.0), Cinch connectors (FBAS/L/R) and EURO-AV socket via enclosed adapter, audio output: constant / variable, digital audio output (optical), headphone socket, PC input possible via HDMI adapter

User-friendliness

- Metz media system with Media Player
- Network function (Multiroom, Smart TV portal, HbbTV** and internet radio)
- Award-winning Tri-Star operating concept – can be set to three levels of complexity according to your requirements
- Three freely configurable function buttons for quick access to up to 30 functions
- OLED plain text display for channel name or time
- Timeshift function
- Twin recording function for convenient recording
- Top teletext functionality with convenience functions and 2,000-page memory for fast access
- Integrated electronic user guide
- Electronic program guide (EPG)
- CEC function for integrating external HDMI devices into the Metz operating system
- Database of remote control systems for use as universal controls

First-class service

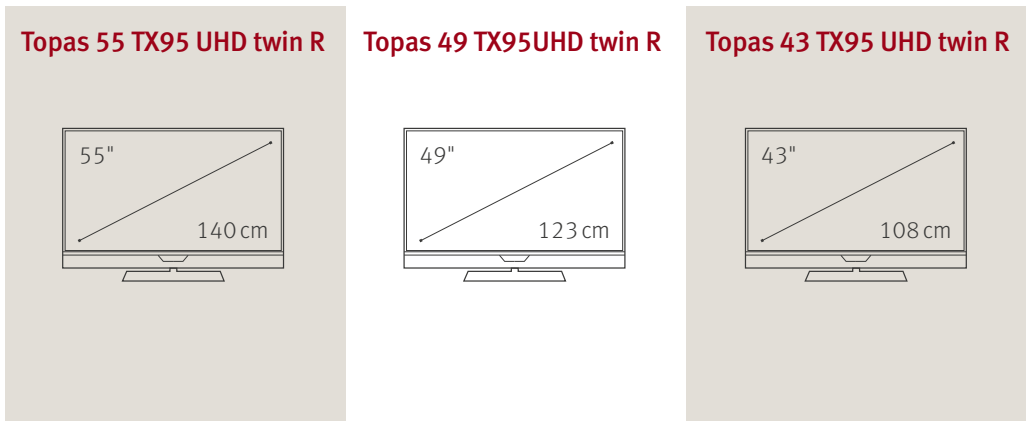
- Enjoy the benefits of expert advice and superior service from specialist dealers

* depending on application

** HbbTV availability is dependent on the station and is therefore not offered in all countries.



UHD



Weight:

with table stand
without table stand

31,7 kg
27,3 kg

26,2 kg
21,8 kg

22,2 kg
17,8 kg

Dimensions W x H x D:

with table stand
without table stand

123,4x85,4x30,0 cm
123,4x80,1x7,3 cm

109,6x77,2x30,0 cm
109,6x72,6x7,3 cm

96,2x69,3x30,0 cm
96,2x64,3x7,3 cm

Energy efficiency category:

A

A

B

Wall-mounting set:

Order No.
Anchoring supports
Distance W/H

615990015.A1
4
VESA 40 cm x 40 cm

615990023.A1
4
VESA 30 cm x 20 cm

615990058.A1
4
VESA 20 cm x 20 cm

Accessories included:

Rotatable base in brushed aluminium look; Rotation angle: +/- 30°
Remote control RM19
Soundmodul

Colour:

Brilliant black / anodised silver, brushed aluminium surround

Basic configuration:



Metz Planea

The fine art of
achieving quality.





Planea

16:9 UHD-TV

- *Black with brushed aluminium decorative trim and aluminium surround*
- *43" to 55" screen size*

Uncompromised perfection.

Functional details such as the twin multi-tuner, numerous connection options, WiFi, and the convenient Metz operating system make the elegant Planea state-of-the-art. Both UHD reception via satellite (DVB-S2) and a media player that plays back UHD content via USB or network connection come ready-integrated. The

extremely high UHD screen resolution (3840 x 2160 pixels) with HDR (High Dynamic Range) ensures the colour display is brilliant and natural, with rich contrast levels. The integrated digital recorder with a capacity of 500 GB has space for around 100 hours of HD-quality recordings.





With brilliant treble and bass reproduction, the integrated soundbar is both elegant and impressive.



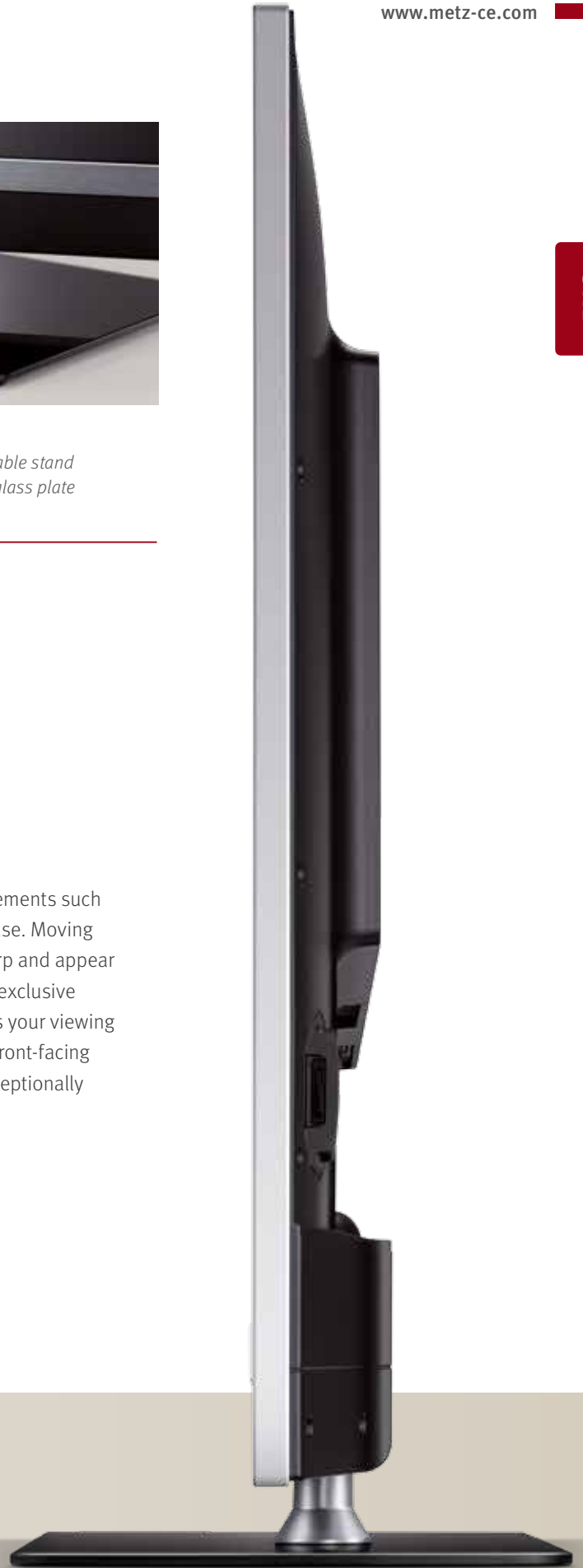
The stylish rotating table stand features an elegant glass plate with a metal column.

That's how simple genius can be.

The perfect combination of tried-and-tested 800Hz MetzVision picture technology and energy-efficient LED technology means the elegant Planea UHD fulfils highest demands upon picture quality. The colour display is brilliant and natural, the rich contrast levels impressive. The Planea UHD

handles even rapid movements such as panning shots with ease. Moving scenes are fluid and sharp and appear particularly natural. The exclusive slimline soundbar refines your viewing pleasure by means of 6 front-facing speakers that deliver exceptionally high performance.

With the MetzRemote app can be controlled conveniently using a smartphone or a tablet.



The Planea range at a glance

All the models in the Planea range offer:

Technical perfection

- **800Hz MetzVision picture technology:**
 - Brilliant sharp UHD resolution: 3840 x 2160 pixels
 - LED backlight for optimal energy efficiency and brilliant display thanks to smart backlight adaption to picture content and room lighting conditions (Lux automatic contrast)
 - Perfect sharpness, perfect contrast and DCI
 - Dynamic motion compensation (DMC) for fluid video playback und optimal film recognition for the best vertical Resolution (FMD)
 - Comprehensive colour management for brilliant colours, natural skin tone and perfect display of different video sources via pre-defined profiles
- **High-quality audio:**
 - MetzSoundPro sound system with rich, immersive sound and 2-way bass reflex system with 6 speakers for balanced treble and bass tones

Exceptional quality

- Metz televisions are built in accordance with the highest quality standards

Ready for the future

- **Integrated:**
 - Hard disk recorder (PVR) with 500 GB storage capacity for approx. 500 hours of digital SDTV or approx. 100 hours of HDTV quality and twin recording
 - Twin multi-tuner for digital and analogue TV via cable and aerial as well as digital satellite (2x DVB-C / -T2 / -S2)
 - UHDTV/HDTV reception
 - USB port for videos, photos and audio*
 - Integrated network function via LAN and WiFi
 - Double CI+ slot for 2 CA modules (for pay TV)
- **External expandability:**
 - MetzRemote app for operation via smartphone or tablet computer (iOS and Android)
 - *Bluetooth*[®] retrofittable
- **Connection-friendly:**
 - USB recording
 - Blu-ray/DVD players/recorders, AV receivers, video recorders, digital cameras, surround sound systems and games consoles
 - 4xHDMI interfaces (1 with ARC) with HDCP 2.2 (4K 60/50p 4:4:4), 2x USB (with 1xUSB 3.0), Cinch connectors (FBAS/L/R) and EURO-AV socket via enclosed adapter, audio output: constant / variable, digital audio output (optical), headphone socket, PC input possible via HDMI adapter

User-friendliness

- Metz media system with Media Player
- Network function (Multiroom, Smart TV portal, HbbTV** and internet radio)
- Award-winning Tri-Star operating concept – can be set to three levels of complexity according to your requirements
- One freely configurable function button for quick access to up to 30 functions
- Timeshift function
- Twin recording function for convenient recording
- Top teletext functionality with convenience functions and 2,000-page memory for fast access
- Integrated electronic user guide
- Electronic program guide (EPG)
- CEC function for integrating external HDMI devices into the Metz operating system

First-class service

- Enjoy the benefits of expert advice and superior service from specialist dealers

* depending on application

** HbbTV availability is dependent on the station and is therefore not offered in all countries.

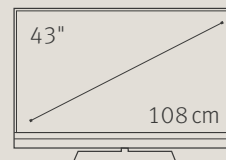
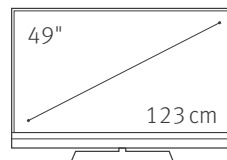
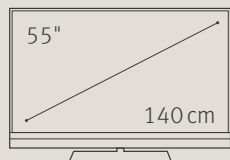


UHD

Planea 55 TX77 UHD twin R

Planea 49 TX77 UHD twin R

Planea 43 TX77 UHD twin R



Weight:

with table stand
without table stand

28,0 kg
24,7 kg

22,0 kg
19,2 kg

18,6 kg
15,7 kg

Dimensions W x H x D:

with table stand
without table stand

123,2x82,2x30,0 cm
123,2x77,2x7,1 cm

109,5x74,1x30,0 cm
109,5x69,2x7,0 cm

96,3x67,1x30,0 cm
96,3x61,9x7,0 cm

Energy efficiency category:

A

A

B

Wall-mounting set:

Order No.
Anchoring supports
Distance W/H

615990015.A1
4
VESA 40 cm x 40 cm

615990023.A1
4
VESA 30 cm x 20 cm

615990058.A1
4
VESA 20 cm x 20 cm

Accessories included:

Rotating glass base; Rotation angle: +/- 30°
Remote control RM18

Colour:

Black / brushed aluminium decorative trim / aluminium surround

Basic configuration:

800Hz MetzVision	UHD	HDR High Dynamic Range	MetzSound PRO	2x DVB C/T2/S2	2x CI+	HD PIP
integrated PVR	Recording TWIN	TIME SHIFT	Recording USB	integrated WiFi	media SYSTEM	

Metz Micos

Form and function
in unison.



Micos

16:9 UHD-TV

- *Black with brushed aluminium decorative trim and aluminium surround*
- *43" to 55" screen size*

Technology that's fun to use.

The new Metz Micos will surprise you: State of the art UHD receiver technology in a perfect design that will be at home in any interior landscape. Its picture will impress you with cutting edge UHD screen resolution, and 400 HZ Metzvision picture technology, dynamic sharpness

and movement correction complete the picture. And the Micos sound is equally impressive. High-quality MetzSoundPro technology with a sealed 2-way system and bass reflex channel ensures a formidably full sound with crystal-clear treble and crisp bass tones.



UHD



A rotating table stand of glass and metal ensure stability.



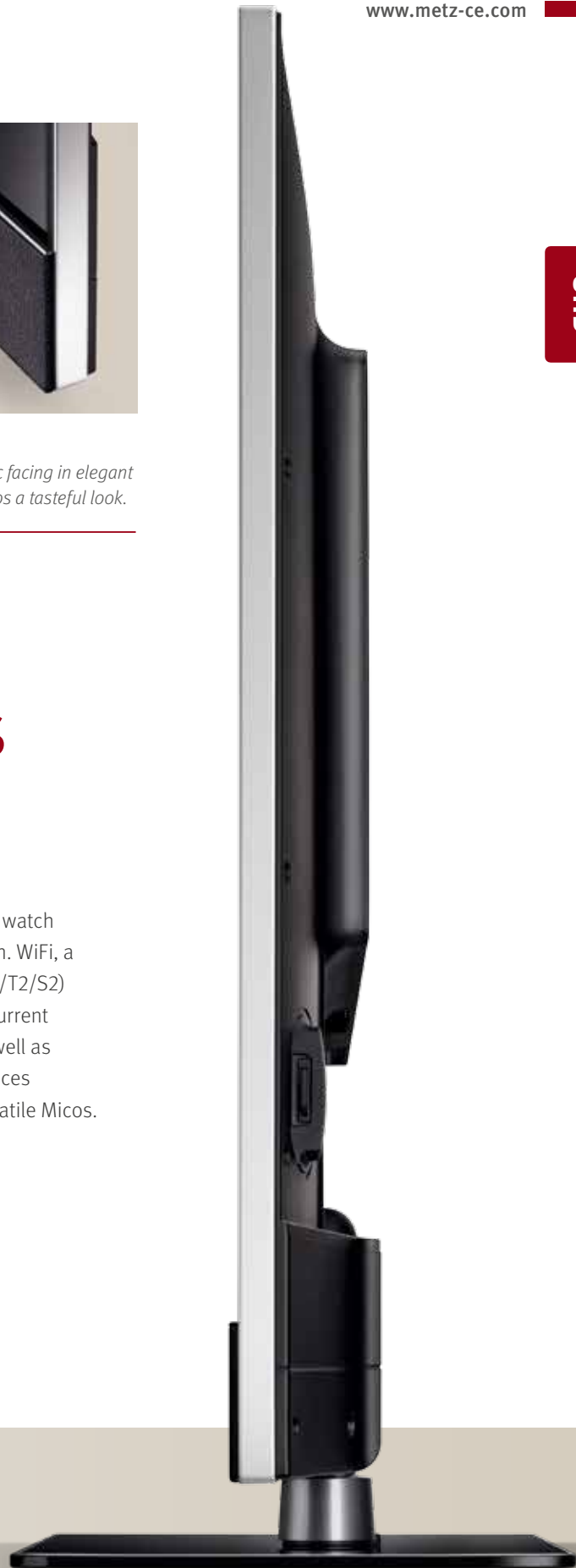
A discreet trim with fabric facing in elegant black guarantee the Micos a tasteful look.

A wealth of features all packed in.

Numerous connection options make the Micos a versatile all-rounder. Our intuitive Metz operating concept leaves nothing to be desired and can be customised to suit your viewing requirements. USB recording allows you to become your very

own television director and watch timeshifted digital reception. WiFi, a twin multi-tuner (2 x DVB-C/T2/S2) that makes it ready for all current reception technologies as well as access to many online services perfectly complete the versatile Micos.

The MetzRemote app can turn a smartphone or tablet into a convenient control centre for your television.



The Micos range at a glance

All the models in the Micos range offer:

Technical perfection

- **400Hz MetzVision picture technology:**
 - Brilliant sharp UHD resolution: 3840 x 2160 pixels
 - LED backlight for optimal energy efficiency and brilliant display thanks to smart backlight adaption to picture content and room lighting conditions (Lux automatic contrast)
 - Perfect sharpness, perfect contrast and DCI
 - Dynamic motion compensation (DMC) for fluid video playback und optimal film recognition for the best vertical Resolution (FMD)
 - Comprehensive colour management for brilliant colours, natural skin tone and perfect display of different video sources via pre-defined profiles
- **High-quality audio:**
 - MetzSoundPro sound system with rich, immersive sound and 2-way bass reflex system with 6 speakers for balanced treble and bass tones

Exceptional quality

- Metz televisions are built in accordance with the highest quality standards

Ready for the future

- **Integrated:**
 - Twin multi-tuner for digital and analogue TV via cable and aerial as well as digital satellite (2x DVB-C / -T2 /-S2)
 - UHDTV/HDTV reception
 - USB port for videos, photos and audio*
 - Integrated network function via LAN and WiFi
 - Double CI+ slot for 2 CA modules (for pay TV)
- **External expandability:**
 - MetzRemote app for operation via smartphone or tablet computer (iOS and Android)
- **Connection-friendly:**
 - USB recording
 - Blu-ray/DVD players/recorders, AV receivers, video recorders, digital cameras, surround sound systems and games consoles
 - 4xHDMI interfaces (1 with ARC) with HDCP 2.2 (4K 60/50p 4:4:4), 2x USB (with 1xUSB 3.0), Cinch connectors (FBAS/L/R) and EURO-AV socket via enclosed adapter, audio output: constant / variable, digital audio output (optical), headphone socket, PC input possible via HDMI adapter

User-friendliness

- Metz media system with Media Player
- Network function (Multiroom, Smart TV portal, HbbTV** and internet radio)
- Award-winning Tri-Star operating concept – can be set to three levels of complexity according to your requirements
- One freely configurable function button for quick access to up to 30 functions
- Timeshift function (via USB)
- Twin recording function for convenient recording
- Top teletext functionality with convenience functions and 2,000-page memory for fast access
- Integrated electronic user guide
- Electronic program guide (EPG)
- CEC function for integrating external HDMI devices into the Metz operating system

First-class service

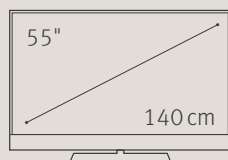
- Enjoy the benefits of expert advice and superior service from specialist dealers

* depending on application

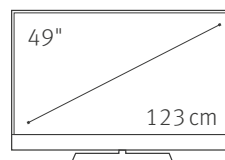
** HbbTV availability is dependent on the station and is therefore not offered in all countries.



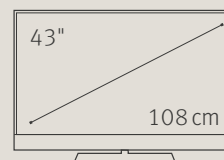
Micos 55 TX68 UHD twin



Micos 49 TX68 UHD twin



Micos 43 TX68 UHD twin



UHD

Weight:

with table stand

without table stand

28,0 kg

24,7 kg

22,0 kg

19,2 kg

18,7 kg

15,8 kg

Dimensions W × H × D:

with table stand

without table stand

123,2×82,2×30,0 cm

123,2×77,2×7,4 cm

109,5×74,1×30,0 cm

109,5×69,2×7,7 cm

96,3×66,7×30,0 cm

96,3×61,9×7,7 cm

Energy efficiency category:

A

A

B

Wall-mounting set:

Order No.

Anchoring supports

Distance W/H

615990015.A1

4

VESA 40 cm × 40 cm

615990023.A1

4

VESA 30 cm × 20 cm

615990058.A1

4

VESA 20 cm × 20 cm

Accessories included:

Rotating glass base; Rotation angle: +/- 30°

Remote control RM18

Colour:

Black / high-gloss polished aluminium decorative trim / aluminium surround

Basic configuration:



Experience operation and technology effortlessly.

With Metz, the versatile possibilities of modern television are child's play. We have integrated an easy-to-use operation guide in our first-class televisions. The Tri-Star operating system, awarded for its exceptional user-friendliness, is self-explanatory – and it can be adjusted to suit your own personal wishes. Practical functions, such as the electronic program guide, ensure care-free viewing pleasure for the whole family.





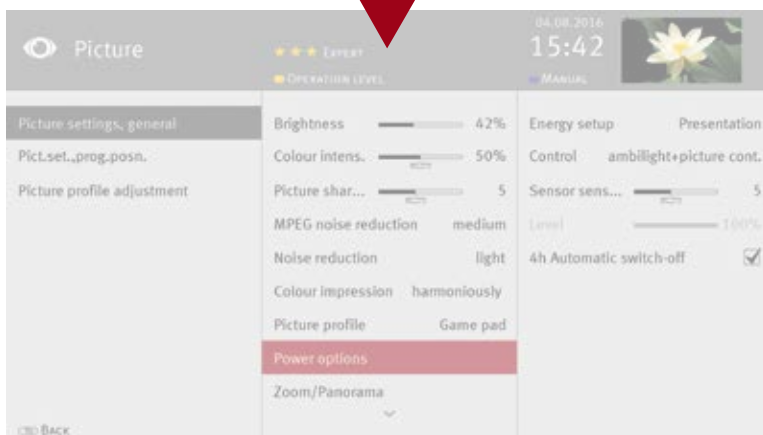
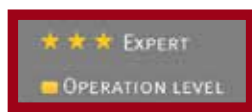
Metz control menu
Intuitive and user-friendly

Metz’s clear remote control functions are matched by the clearly arranged menu. Despite the many options available to the viewer, a Metz television never confuses: in the clearly-structured function overview, you can effortlessly find all functions and settings. The self-explanatory and logically-arranged menu with large print is highly legible and user-friendly. The operating steps are always easy to understand, and you will always find functions and settings where you would expect. Metz is synonymous with TVs that are a pleasure to use on a daily basis.



Easy-to-use remote control.

Switch on, sit back and enjoy: That’s the way television should be. And that is why we have designed Metz televisions to be completely self-explanatory. If anything isn’t quite clear, the integrated operation guide in the menu display (blue button) will help you. It provides short and concise descriptions of the functions selected. With Metz, poring over the manual for hours on end is a thing of the past – thanks to the award-winning Tri-Star operating system.



Tri-Star operating system.
As simple as you want it to be.

Metz makes watching TV even easier. With the easy-to-use Tri-Star operating system, you decide for yourself which operating options you would like to use – on three different levels. You can limit the range of options to the bare minimum, i.e. for speed and simplicity of operation, or you can opt for greater depth of detail: for example, you can assign custom settings, such as colour, volume, or image clarity to each individual TV channel and any external signal source.

Programmable function assignment.

Too many buttons on the remote control? And yet the really important ones aren't there? Not with Metz. Thanks to the individually configurable function button, your Metz television adapts perfectly to your needs. Frequently-used menu functions, channels, AV sources and much more can be stored on one of the 30 available places and can be accessed quickly and easily on demand. This unique operating system is unrivalled in its level of customisation and allows quick access to the functions, channels and information that are really important to you. Here, we are redefining user-friendliness, thanks to the freely configurable function button.**



The 30 available places in the programmable function menu can be set up quickly and easily.

Electronic program guide*

The program overview can be displayed in three different ways: in the order on your channel list, for each channel separately or sorted by the start time of each program. You'll therefore always have an overview of what's on. Particularly convenient: by simply "clicking" on a program, you can record this on the hard disk recorder or set a reminder for the start of the program.



Top teletext functionality with split-screen and quick search system*

Find what you are looking for faster: straightforward Metz teletext system, you can choose between specific topics and quickly locate the corresponding information – in the same brilliant picture quality you expect from Metz. With the extensive page memory, which holds up to 2,000 pages, you can even access sub-pages in no time at all – without annoying wait times. The innovative split-screen function is particularly convenient. Here you can read the channel's teletext while continuing to watch the current program on the other half of the screen. The teletext on Metz televisions can also be searched using any term you like.



* Range depend on model

** Remote control type is dependent on model: RM18 - 1 F button / RM19 - 3 F buttons

Full HD - Full High Definition

High-definition and detailed television.

Full HD

The Full HD standard is still the ultimate choice for smaller screen sizes and normal viewing distances. Most high-definition television broadcasts are today aired in HD (720p) or Full HD (1080p) and are thus ideal for a Full HD resolution of

1920x1080 with approx. 2 million pixels. Our high-quality Full HD models meet the high standards of today and tomorrow when it comes to picture quality, and are also compatible with higher resolutions of the future (downscaled).





Full HD

Metz Cosmo

Viewing pleasure in
its purist form.

Full HD



Cosmo

16:9 LED-TV

- Brilliant black with an anodised silver, brushed aluminium surround
- 32" to 43" screen size

A delight for the eyes and the ears.

Good looks aren't everything. The Metz Cosmo also impresses with its inner qualities: the modern LED technology and 200 Hz MetzVision picture technology deliver a visibly incredible viewing experience. The intuitive operation of the self-explanatory Metz

child's play. The slimline soundbar fits in perfectly with the Cosmo's tasteful design and features forward-facing speakers. The MetzSoundPlus technology with a sealed 2-way bass reflex system ensures an impressively full, clean sound with brilliant treble and bass tones.





Das elegante Design des Cosmo überzeugt durch einen edlen umlaufenden Alurahmen.



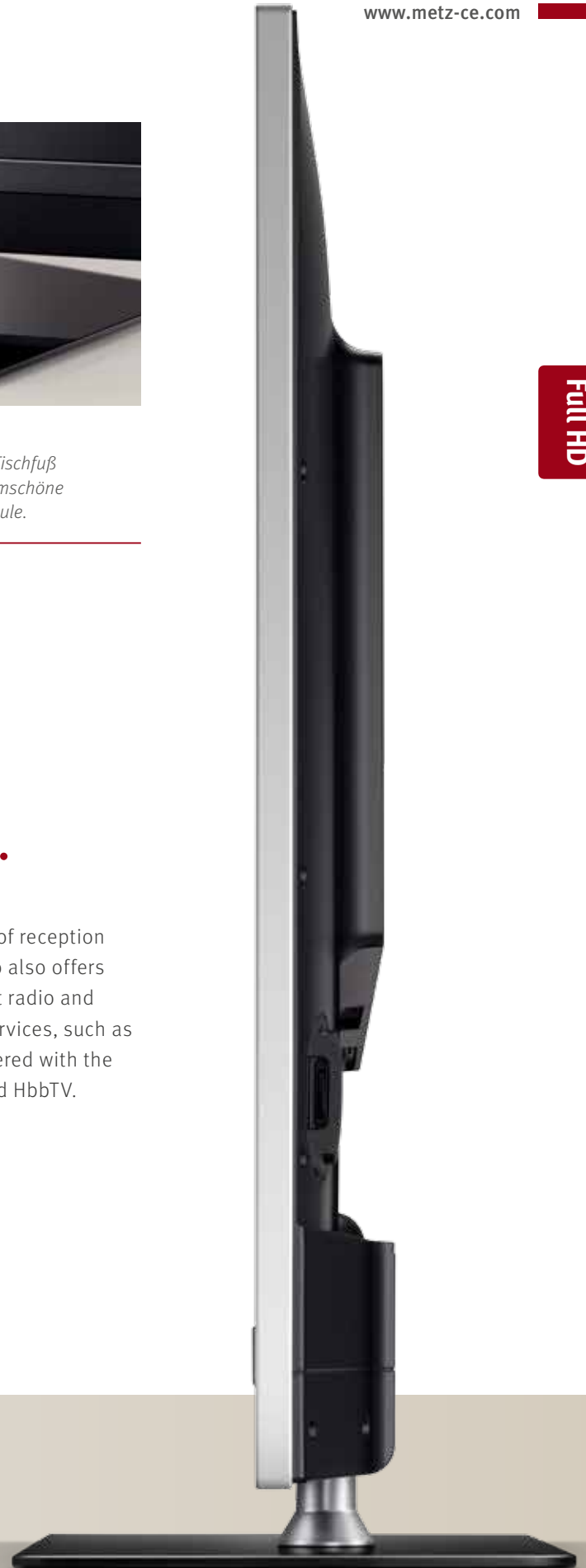
Der stilvolle drehbare Tischfuß besticht durch eine formschöne Glasplatte mit Metallsäule.

Compact and connection-friendly.

Three HDMI connections, a WiFi interface, a LAN network connection, two USB ports and a Mini EURO-AV port offer extensive connection options. Thanks to an integrated multi-tuner (DVB-C/T2/S2) and a CI+ slot for CA modules, the Cosmo is well

equipped for all types of reception technology. The Cosmo also offers USB recording, Internet radio and access to numerous services, such as the media libraries offered with the new television standard HbbTV.

Metz's clear remote control is matched by the neatly arranged menu.



Full HD

The Cosmo range at a glance

All the models in the Cosmo range offer:

Technical perfection

- **200Hz MetzVision picture technology:**
 - Amazingly sharp full HD resolution: 1920 × 1080 pixels
 - LED backlight for optimal energy efficiency and brilliant display thanks to smart backlight adaption to picture content and room lighting conditions (Lux automatic contrast)
 - Perfect contrast and DCI
 - Dynamic motion compensation (DMC) for fluid video playback und optimal film recognition for the best vertical Resolution (FMD)
 - Comprehensive colour management for brilliant colours, natural skin tone and perfect display of different video sources via pre-defined profiles
- **High-quality audio:**
 - MetzSoundPlus sound system and 2-way speaker system with 6* speakers for balanced treble and bass tones

Exceptional quality

- Metz televisions are built in accordance with the highest quality standards

Ready for the future

- **Integrated:**
 - Multi-tuner for digital and analogue TV via cable and aerial as well as digital satellite (DVB-C / DVB-T / DVB-S2)
 - HDTV reception
 - USB port for videos, photos and audio**
 - Integrated network function via LAN and WiFi
 - CI+ slot for 1 CA module (for pay TV)
- **Connection-friendly:**
 - USB recording
 - Blu-ray/DVD players/recorders, AV receivers, video recorders, digital cameras, surround sound systems and games consoles
 - 3×HDMI interfaces (1 with ARC) with HDCP, 2× USB, Cinch connectors (FBAS/L/R) and EURO-AV socket via enclosed adapter, audio output: constant / variable, digital audio output (optical), headphone socket, PC input possible via HDMI adapter

User-friendliness

- Media Player
- Network function (Smart TV portal, HbbTV*** and internet radio)
- Award-winning Tri-Star operating concept – can be set to three levels of complexity according to your requirements
- One freely configurable function button for quick access to up to 30 functions
- Top teletext functionality with convenience functions and 1,000-page memory for fast access
- Integrated electronic user guide
- Electronic program guide (EPG)
- CEC function for integrating external HDMI devices into the Metz operating system

First-class service

- Enjoy the benefits of expert advice and superior service from specialist dealers

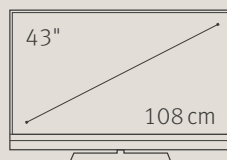
* Cosmo 32 with 4 speakers

** depending on application

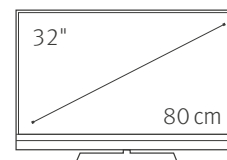
*** HbbTV availability is dependent on the station and is therefore not offered in all countries.



Cosmo 43



Cosmo 32



Full HD

Weight:

with table stand

without table stand

18,6 kg

15,7 kg

9,4 kg

7,3 kg

Dimensions W × H × D:

with table stand

without table stand

96,3×67,1×30,0 cm

96,3×61,9×7,0 cm

72,9×54,0×24,0 cm

72,9×48,7×5,5 cm

Energy efficiency category:

A+

A

Wall-mounting set:

Order No.

Anchoring supports

Distance W/H

615990058.A1

4

VESA 20 cm × 20 cm

615990066.A1

4

VESA 10 cm × 10 cm

Accessories included:

Rotating glass base; Rotation angle: +/- 30°

Remote control RM18

Colour:

Brilliant black / anodised silver, brushed aluminium surround

Basic configuration:



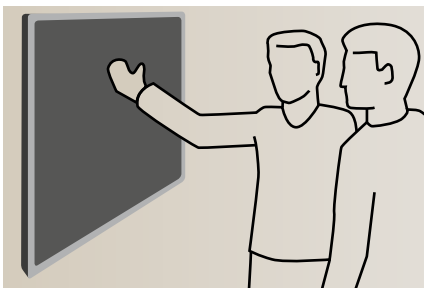
Metz service centre

With our comprehensive care-free package, you can experience total relaxation.

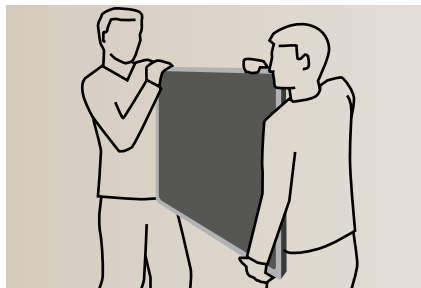
Excellent dealer advice and service.

We want you to have the best service. That is why we sell our televisions exclusively through authorised dealers. Here you can be sure of expert advice and first-class service.

Expert advice on your purchase



Convenient delivery and expert installation

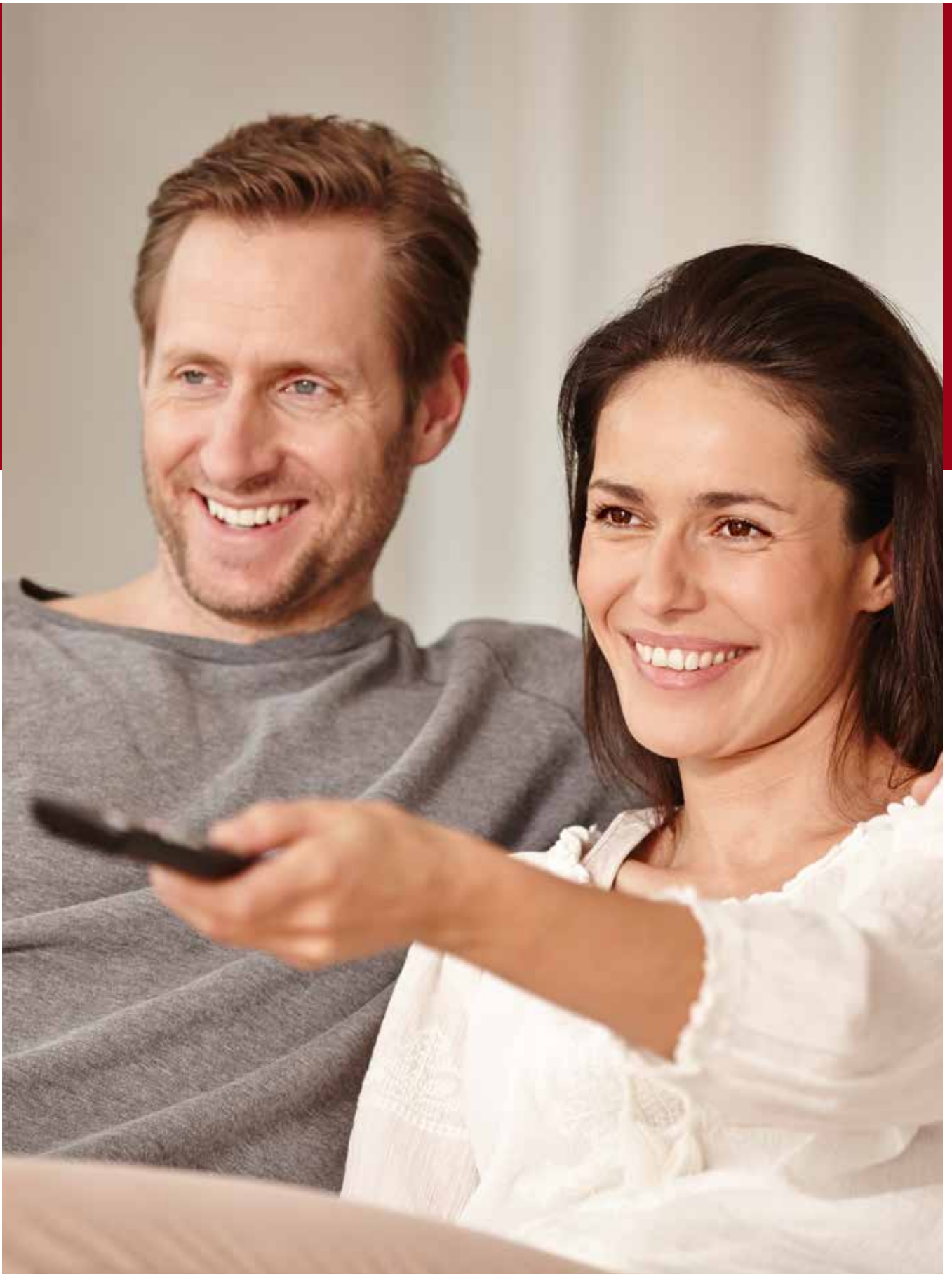


Professional customer service on site



Top service – after your purchase too

On request: from convenient delivery and expert installation to disposal of the packaging and professional customer service, you – and your Metz television – are in the best of hands with our local authorised dealers.



Metz – the No. 1 partner among dealers



Dealers have voted Metz their No. 1 partner in Germany for over 25 consecutive years. You can count on Metz, as our dealers and our customers will testify.

MI performance rankings 2017

Manufacturer's overall rating
Consumer Electronics

Ranking 2017	Ranking 2015	Manufacturer	Score
1.	1.	Metz	1,97
2.	5.	Loewe	2,07
3.	2.	TechniSat	2,54
4.	4.	Panasonic	2,58
5.	3.	Grundig	3,05
6.	7.	Samsung	3,46
7.	6.	Sony	3,55
8.	10.	LG	3,81
9.	8.	Hisense	3,99
10.	9.	TP Vision	4,16
Average			3,12

Vote takes place every 2 years.
Fount: markt intern Verlag GmbH, Redaktion Unterhaltungselektronik

Performance certificate 2017

Full- and multi-range supplier
Consumer Electronics

LEISTUNGS-ZERTIFIKAT

In einer bundesweiten Umfrage beurteilen deutsche Unterhaltungselektronik-Fachhändler die Leistungen ihrer

Voll- und Mehrfachsortiment-Lieferanten

nach den Kriterien:

- Produktqualität
- Sortimentspolitik
- Umschlaggeschwindigkeit
- Lieferverhalten
- Garantie-/Reparaturservice
- Inendienst-/Außendienstbetreuung
- Fachhandelsorientierung
- Absatzförmerstrategie

Im Wettbewerb von zehn Herstellern erzielte die Firma **Metz** Consumer Electronics GmbH Zitröndorf mit einer Durchschnittsnote von 1,97 den Gesamtsieg und wird zum **Fachhandelspartner 2017** erklärt.

Dieses Zertifikat, im August 2017

markt intern

RA Lorenz Hack
Lorenz Rechtsanwaltskanzlei

Olaf Weber
Manager

markt intern Verlag GmbH • www.markt-intern.de



Certified quality

With high-quality down to the finest detail, innovations and a comprehensive service system, we offer our customers the added value that they expect from Metz products. However, our quality standard applies to more than just our products. Quality is one of our corporate principles and serves as both motivation and orientation for our actions and our treatment of customers, suppliers, business partners and each other.

Every person involved in the work process takes responsibility for implementing our philosophy to the highest degree – working together with their superiors and colleagues. Only this way can we guarantee that the quality of the overall result will meet our requirements and the requirements of our customers. It is thanks to this that our quality management system has been certified in accordance with the internationally recognised ISO 9001 standard.

Certificate for quality management system ISO 9001:2008

The advantages of integration.

Integrated solutions from Metz use less energy and resources than the sum of the equivalent individual components (e.g. external satellite receiver, hard disk recorder). This is because a Metz TV brings together the capabilities of several devices in one. This saves energy and natural resources. Compared to operating all these components individually, this represents a significant contribution to CO₂ reduction and

energy saving. In real terms, the need for a wide range of external devices can be eliminated by integrating receivers and modules ranging from DVB cable tuners and DVB-T2 terrestrial tuners to satellite tuners and hard disk recorders (PVRs). This in turn lowers primary energy requirements, as additional unit housings, power supply units and various plastic components can be dispensed with. At the same time this

provides increased user friendliness, since everything can be operated with a single, integrated remote control. Metz TVs' modular construction concept also helps reduce energy consumption if the unit ever needs to be repaired. Ideally, it should be possible to carry out the repair at the customer's home or, if not, at a dealership nearby.

Retrofit kits and accessories



Wall mounts and VESA adapter bolts

All Metz devices can be mounted securely using a Metz wall mount set. If the television is to be mounted on a commercially available pivoting wall holder, VESA adapter bolts may be necessary, depending on the model. For details, please ask your authorised dealer.



Illustration device-dependent

Wall mount panel/braces for a VESA wall holder

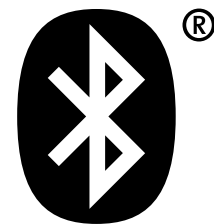
Bluetooth®*

Novum and Topas models has *Bluetooth*® integration. Planea models can be retrofitted with *Bluetooth*®. The retrofit kit allows the device to be paired with a *Bluetooth*® integration. For example *Bluetooth*® headphones, or to stream audio content from mobile devices wirelessly. AptXLL provides high-quality audio transmission.

The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Metz is underlicense. Other trademarks and trade names are those of their respective owners.

Qualcomm aptX is a product of Qualcomm Technologies International, Ltd.

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**Qualcomm® aptX™
low latency**



Bluetooth® Subwoofer SW80**

Sound technology:

- Design principle: closed, torsion-resistant and low-resonance MDF housing construction
- Assembly: 1 x 8" woofer (4 Ohm) with 2 x 8" passive drivers
- Crossover frequency, adjustable: 50 Hz – 150 Hz
- Music power output: Class D power amplifier 60 W

Operation:

- integrated operating concept in combination with Metz TVs from chassis generation 616 (TX models)
- Power switch, LED operating status display, auto on/off, volume control and crossover frequency control

Connectivity:

- Bluetooth®, S/PDIF digital audio input (optical), 3.5mm stereo jack and cinch (stereo)

Other information:

- Mains voltage: 230–240V / 50 Hz
- Power consumption in operation: max. 75 W
- Power consumption in stand-by mode: max. 0.4 W
- Included as standard: Flex and 3.5mm stereo jack cable
- Dimensions (W x H x D): 26 x 30 x 28cm
- Weight: 7kg
- Colour: Black



** available as of 4th quarter of 2017



Enjoy music completely free of cables, plugs and other accessories.

Bluetooth® Headphones KH-BT 01

- Well-balanced, high quality sound
- Fatigue-free, highly comfortable design with super soft ear and headband cushions, adjustable earpiece, flexible ear caps and light weight (180g)
- Wireless *Bluetooth*® or wired connection (Accessories included 3m cable)
- Easy to carry thanks to foldable headband
- High battery lifetime (Li-ion battery)
- Can also be used as a headset (microphone built in)
- Easy to control using integrated pushbuttons in the ear caps
- With the use of a suitable Metz TV lip-sync audio behaviour
- Headphones frequency response: 20-20,000Hz
- Microphone frequency response: 100-10,000Hz

Bluetooth® :

- Version: V4.0
- Supported audio profile: A2DP, AVRCP, HFP, HSP
- Range: up to 10m

Battery:

- Playback time: max. 25 h
- Standby time: max. 168 h
- Charging time: 2-3 h
- Li-ion battery: 400mAh



Innovative technology explained simply.

10-bit colour depth

This technology approximately quadruples the resolution in the colour range compared to previously used 8-bit technology. As a result, colour transitions and gradations are much more differentiated and thus finer, and the picture takes a major step forwards in terms of natural colour rendering.

ARC

The audio return channel (ARC) permits direct transmission of audio signals from a TV transmitter to an external audio system connected via HDMI, thus reducing the amount of cabling required.

Automatic aspect ratio recognition

Allows the picture to be shown in its correct format, filling the screen and yet fitting as many elements as possible into the frame – for both TV broadcasts and external image sources.

Automatic HDMI program change

An active HDMI source is recognised and the corresponding channel is automatically selected.

CEC

Consumer Electronics Control makes it possible to control the television and any connected AV devices with a single remote control. Additional control signals are transmitted over the HDMI connection along with image and sound information.



CI+

The common interface has been further developed. It is used to decrypt received DVB data that has been encrypted in accordance with the CI+ process. The CI+ module is the interface between the encrypted data and the smartcard that contains the customer-specific access data.

DMC

Dynamic Motion Control. Process for calculating intermediate images. This provides a smooth display of cinema films.

Dolby Digital Plus

Multi-channel sound system from Dolby Laboratories, Inc.

Further development of the Dolby Digital sound system with improved transmission efficiency and enhanced reproduction quality due to a higher number of possible audio channels and increased data rates.



DVB-C/-T/-S2 (Multi-tuner)

Integrated receiver, supports all reception paths (analogue, DVB-C/-T/-S2) and is also HDTV-capable via digital cable (DVB-C) and digital satellite (DVB-S2).



2x DVB-C/-T2/-S2 (Twin multi-tuner)

Integrated receiver, supports all reception paths (DVB-C/-T2/-S2, analogue) in dual mode, thus permitting simultaneous use of two different channels, for example for recording one program while watching another program on a different TV station at the same time, or for recording two programs on two different channels.

Dynamic noise reduction

Filter for moving and static pictures to eliminate picture interference.

EPG

Electronic Program Guide = electronic TV guide for digital channels, based on data provided by TV broadcasters. EPG allows you to see and restructure the TV schedule in advance and facilitates the programming of recordings.

FHD (resolution)

With a resolution of 1920x1080 pixels, Full HD displays offer almost 2.1 million pixels, and are therefore ideal for almost all image sources typically used today.



Hard disk recorder (PVR)

Integrated internal hard disk memory with a storage capacity of 500GB/1TB. This makes it possible to make digital recordings up to 100/200 hours in HDTV quality (high-resolution) or up to 500/1000 hours in SDTV quality (standard resolution).



HbbTV*

Hybrid Broadband Broadcast TV makes it possible to retrieve additional content offerings from TV broadcasters via an Internet connection on the television provided in addition to the TV connection. It facilitates access to additional information on the current program, for example, but also to services such as media libraries, high-resolution teletext or broadcasters' own electronic program guides (EPG).

HEVC

High Efficiency Video Coding, also known as H.265, is a standard for coding and decoding video content. HEVC is the successor to the H.264/MPEG-4-AVC standard, and allows a significantly higher compression at the same level of image quality.

HDMI

High Definition Multimedia Interface, with HDCP copy protection. Digital interface for connecting external AV sources. HDMI delivers better picture and audio quality than SCART, for example, and offers the option of showing HDTV.

HDR

HDR, High Dynamic Range, refers to a new standard that lays the technical foundations for greatly improved contrast and, therefore, for capturing and reproducing differences between light and dark in a scene. This greatly improves the picture quality, making it much more realistic.

HDTV

The receiver for HDTV is already integrated in the television set. HD capability makes the TV picture up to five times sharper and the details significantly clearer than with standard resolution (SDTV). Especially suited to this presentation is a Full HD panel with a screen resolution of 1920 x 1080 pixels.

Integrated manual

The television contains an integrated manual (operation guide) which provides short descriptions of the television's functions. These can be accessed directly in the menu using the blue button.

IPS technology (LED-LCD)

In-plane switching screen technology: for faithful colour display even when the screen is viewed from an angle.



LAN interface

Local Area Network connection for connecting to a home network (e.g. Media Server) and connecting the TV set to the Internet (e.g. HbbTV*).

LED technology

In LED televisions, light-emitting diodes (LEDs) provide the illumination of the screen. One method of doing this is Edge LED, whereby light-emitting diodes arranged at the edge of the screen illuminate it with the aid of a light distribution system. Typical features of this are even, bright illumination and high energy efficiency.

LUX automatic contrast

Automatic adjustment of brightness to the light conditions in the room.

Media library

A term used to describe an archive of multimedia files. This refers to the online archives supplied by television broadcasters via the HbbTV* platform. The content can be searched and played back on the television.



Metz Media System

Supports playback of a wide variety of multimedia data files (video, music and photos) via network and USB. It also supports HbbTV* which makes it possible to use additional broadcaster-

related content provided by TV stations using this platform, such as media libraries.

MetzRemote

Application programme for controlling the TV with a smartphone or tablet; displays the list of the TV's broadcasting stations and contains a list editor and Wake-on-LAN function. Available free of charge for devices with iOS and Android operating systems.



MetzVision

A collective term for the whole range of image optimisation features. This includes all influencing factors, such as the panel's performance data, the image processing components of the electronics and the functional groups and algorithms in the software, for example motion compensation or local contrast. The rating of the entire package of image optimisation measures is indicated by the unit "Hz MetzVision".



OLED

Organic Light Emitting Diodes are used to create the best picture quality currently available today. The particular strengths of this self-illuminating technology lie in its ability to display very dark or completely black image areas. As a whole, this results in outstandingly realistic contrast and also improves colour rendering. Other strengths include the tremendously balanced illumination as well as practically perfect viewing angle stability. Here, Metz works exclusively with long-lasting white OLEDs, which are complemented with advanced colour filter technology.



PC connection

A PC can be connected to the television via HDMI. Adjusting the PC connection in the menu facilitates the pixel-perfect and lag-free display of the PC image on the television.



Smart TV portal

Application gallery with a multitude of program-related and program-independent services and

content which the viewer can access via a television connected to the Internet.

SPDIF

Digital interface for exceptional audio quality. Optical digital output: The TV audio can be reproduced via a surround sound system.

Tri-Star operating concept

The user menu has three levels of complexity to choose from, depending on the user's degree of technical interest.

UHDTV (reception)

The UHDTV receiver is already integrated into the television set (via satellite). UHDTV reception makes details significantly clearer than HDTV (high-definition television), with a maximum of almost 8.3 million pixels compared to a maximum of 2.1 million in HDTV. Other possible sources include all UHD-ready sources via HDMI or suitable UHD video or photo content via USB or a network (for supported formats, see p.30).

UHD (resolution)

With a resolution of 3840x2160 pixels, ultra-high-definition displays offer almost 8.3 pixels, and can thus display considerably more details and definition when used with suitable sources. This means that the picture is still perceived to be clear, even at very low viewing distances.



WiFi

Wireless Local Area Network for connecting wirelessly to a home network (e.g. Media Server) and connecting the TV set to the Internet (e.g. HbbTV*).

* HbbTV availability is dependent on the station and is therefore not offered in all countries.

	Novum 65 OLED twin R	Novum 55 OLED twin R
Picture technology		
Display technology	OLED technology	OLED technology
Diagonal screen size (cm)	164	140
UHD 3840×2160 / Full HD 1920×1080	•/–	•/–
HDR / 3D technology	•/•	•/•
Picture technology	2000Hz MetzVision	2000Hz MetzVision
Max. contrast ratio	2.500.000: 1	2.500.000 : 1
Automatic contrast of picture content / ambient light	•/•	•/•
Panel brightness in cd/m ²	800	750
Viewing angle type °	180	180
Typ. response time in ms (GTG)	1	1
HD-PIP	•	•
Sound technology		
Music power output (watts)	2 × 30 + 2 × 10	2 × 30 + 2 × 10
Integrated speakers	4	4
MetzSoundPro / MetzSoundPlus	•/–	•/–
7 band equalizer	•	•
Audio output: constant / variable	•/•	•/•
Dolby Digital+ / HE-AAC	•/•	•/•
Automatic volume correction (can be disabled)	•	•
Separate headphone volume adjustment	•	•
Operation		
Remote control	RM19	RM19
Hard disk recorder incl. Timeshift	1 TB	1 TB
USB recording incl. Timeshift	•	•
Internet timer	•	•
Power switch	•	•
OLED plain text display / Illuminating diode	•/•	•/•
Electronic program guide (EPG) / digital channels	•/all	•/all
Tri-Star menu incl. hotel mode	•	•
Sleep timer / Child lock	•/•	•/•
Top teletext / Comfort functions	•/•	•/•
Reception		
Equipped with tuner ex works	2 × DVB-C/T2/S2	2 × DVB-C/T2/S2
UHDTV / HDTV integrated	•/•	•/•
Number of CI+ enabled CI slots	2	2
Media / network functions		
Metz Media System / HbbTV	•/•	•/•
Streaming (Server/Client)	• (•/•)	• (•/•)
MetzRemote app	•	•
Internet radio	Tuneln	Tuneln
Smart TV portal / Browser	Foxxum/•	Foxxum/•
LAN / WiFi (IEEE 802.11 a/b/g/n/ac ; 2,4GHz and 5,0GHz)	•/•	•/•
Bluetooth® with Qualcomm® aptX™ low latency	•	•
Connectivity		
HDMI socket with HDCP 2.2 (4K 60/50p 4:4:4) / and with ARC	4 / 1	4 / 1
USB connection 2.0 / USB-Anschluss 3.0 (video/photo/audio)	1 / 1	1 / 1
LAN Network connection (RJ 45)	•	•
S/PDIF digital audio output / Audio output	•/•	•/•
Headphone socket / EURO-AV socket via adapter	•/•	•/•
Audio input and Cinch (FBAS/L/R) via adapter	•	•
Power consumption		
Mains voltage	230–240V/50Hz	230–240V/50Hz
Power consumption in use (in delivery condition)	174,0	158,0
Power consumption in standby mode [W]	0,12	0,12
Peak luminance ratio [%]	65	65
Annual energy consumption [kWh]	241	219
Energy efficiency category (spectrum A++ till E)	B	B
Dimensions / weight		
Width [cm]	145,2	122,9
Height with table stand / with floor stand / without base [cm]	94,1 / 140,1 / 91,1	81,5 / 127,8 / 78,8
Depth with table stand / with floor stand / without base [cm]	42,0 / 41,0 / 7,3	42,0 / 41,0 / 8,3
Weight with table stand / with floor stand / without base [kg]	23,6 / 46,9 / 22,2	20,3 / 43,5 / 18,8
Other information		
Mercury concentration in mg	0,0	0,0
Contains lead (within statutory prescriptive limits)	•	•

Metz Topas (Page 36)

Topas 55 TX95 UHD twin R	Topas 49 TX95 UHD twin R	Topas 43 TX95 UHD twin R	
			Picture technology
LCD TV with LED technology	LCD TV with LED technology	LCD TV with LED technology	Display technology
140	123	108	Diagonal screen size (cm)
•/-	•/-	•/-	UHD 3840×2160 / Full HD 1920×1080
•/-	•/-	•/-	HDR / 3D technology
1000Hz MetzVision	1000Hz MetzVision	1000Hz MetzVision	Picture technology
750.000 : 1	750.000 : 1	750.000 : 1	Max. contrast ratio
•/•	•/•	•/•	Automatic contrast of picture content / ambient light
400	400	400	Panel brightness in cd/m ²
178	178	178	Viewing angle type °
5	5	5	Typ. response time in ms (GTG)
•	•	•	HD-PIP
			Sound technology
2 × 30 + 2 × 10	2 × 30 + 2 × 10	2 × 30 + 2 × 10	Music power output (watts)
4	4	4	Integrated speakers
•/-	•/-	•/-	MetzSoundPro / MetzSoundPlus
•	•	•	7 band equalizer
•/•	•/•	•/•	Audio output: constant / variable
•/•	•/•	•/•	Dolby Digital+ / HE-AAC
•	•	•	Automatic volume correction (can be disabled)
•	•	•	Separate headphone volume adjustment
			Operation
RM19	RM19	RM19	Remote control
1 TB	1 TB	1 TB	Hard disk recorder incl. Timeshift
•	•	•	USB recording incl. Timeshift
•	•	•	Internet Timer
•	•	•	Power switch
•/•	•/•	•/•	OLED plain text display / Illuminating diode
•/all	•/all	•/all	Electronic program guide (EPG) / digital channels
•	•	•	Tri-Star menu incl. hotel mode
•/•	•/•	•/•	Sleep timer / Child lock
•/•	•/•	•/•	Top teletext / Comfort functions
			Reception
2 × DVB-C/T2/S2	2 × DVB-C/T2/S2	2 × DVB-C/T2/S2	Equipped with tuner ex works
•/•	•/•	•/•	UHDTV / HDTV integrated
2	2	2	Number of CI+ enabled CI slots
			Media / network functions
•/•	•/•	•/•	Metz Media System / HbbTV
• (•/•)	• (•/•)	• (•/•)	Streaming (Server/Client)
•	•	•	MetzRemote app
Tuneln	Tuneln	Tuneln	Internet radio
Foxxum/•	Foxxum/•	Foxxum/•	Smart TV portal / Browser
•/•	•/•	•/•	LAN / WiFi (IEEE 802.11 a/b/g/n/ac ; 2,4GHz and 5,0GHz)
•	•	•	Bluetooth® with Qualcomm® aptX™ low latency
			Connectivity
4/1	4/1	4/1	HDMI socket with HDCP 2.2 (4K 60/50p 4:4:4) / and with ARC
1/1	1/1	1/1	USB connection 2.0 / USB-Anschluss 3.0 (video/photo/audio)
•	•	•	LAN Network connection (RJ 45)
•/•	•/•	•/•	S/PDIF digital audio output / Audio output
•/•	•/•	•/•	Headphone socket / EURO-AV socket via adapter
•	•	•	Audio input and Cinch (FBAS/L/R) via adapter
			Power consumption
230–240V/50Hz	230–240V/50Hz	230–240V/50Hz	Mains voltage
108,0	97,0	91,0	Power consumption in use (in delivery condition)
0,15	0,15	0,15	Power consumption in standby mode [W]
65	65	65	Peak luminance ratio [%]
150	135	126	Annual energy consumption [kWh]
A	A	B	Energy efficiency category (spectrum A++ till E)
			Dimensions / weight
123,4	109,6	96,2	Width [cm]
85,4 / 80,1	77,2 / 72,6	69,3 / 64,3	Height with base / without base [cm]
30,0 / 7,3	30,0 / 7,3	30,0 / 7,3	Depth with base / without base [cm]
31,7 / 27,3	26,2 / 21,8	22,2 / 17,8	Weight with base / without base [kg]
			Other information
0,0	0,0	0,0	Mercury concentration in mg
•	•	•	Contains lead (within statutory prescriptive limits)

	Planea 55 TX77 UHD twin R	Planea 49 TX77 UHD twin R	Planea 43 TX77 UHD twin R
Picture technology			
Display technology	LCD TV with LED technology	LCD TV with LED technology	LCD TV with LED technology
Diagonal screen size (cm)	140	123	108
UHD 3840×2160 / Full HD 1920×1080	•/–	•/–	•/–
HDR / 3D technology	•/–	•/–	•/–
Picture technology	800Hz MetzVision	800Hz MetzVision	800Hz MetzVision
Max. contrast ratio	750.000 : 1	750.000 : 1	750.000 : 1
Automatic contrast of picture content / ambient light	•/•	•/•	•/•
Panel brightness in cd/m ²	400	400	400
Viewing angle type °	178	178	178
Typ. response time in ms (GTG)	5	5	5
HD-PIP	•	•	•
Sound technology			
Music power output (watts)	2 × 20	2 × 20	2 × 20
Integrated speakers	6	6	6
MetzSoundPro / MetzSoundPlus	•/–	•/–	•/–
7 band equalizer	•	•	•
Audio output: constant / variable	•/•	•/•	•/•
Dolby Digital+ / HE-AAC	•/•	•/•	•/•
Automatic volume correction (can be disabled)	•	•	•
Separate headphone volume adjustment	•	•	•
Operation			
Remote control / RM19 compatible	RM18/ •	RM18/ •	RM18/ •
Hard disk recorder incl. Timeshift	500GB	500GB	500GB
USB recording incl. Timeshift	•	•	•
Internet Timer	•	•	•
Power switch	•	•	•
Illuminating diode	•	•	•
Electronic program guide (EPG) / digital channels	•/all	•/all	•/all
Tri-Star menu incl. hotel mode	•	•	•
Sleep timer / Child lock	•/•	•/•	•/•
Top teletext / Comfort functions	•/•	•/•	•/•
Reception			
Equipped with tuner ex works	2 × DVB-C/T2/S2	2 × DVB-C/T2/S2	2 × DVB-C/T2/S2
UHDTV / HDTV integrated	•/•	•/•	•/•
Number of CI+ enabled CI slots	2	2	2
Media / network functions			
Metz Media System / HbbTV	•/•	•/•	•/•
Streaming (Server/Client)	• (•/•)	• (•/•)	• (•/•)
MetzRemote app	•	•	•
Internet radio	Tuneln	Tuneln	Tuneln
Smart TV portal / Browser	Foxxum/•	Foxxum/•	Foxxum/•
LAN / WiFi (IEEE 802.11 a/b/g/n/ac ; 2,4GHz and 5,0GHz)	•/•	•/•	•/•
Bluetooth® retrofitted	•	•	•
Connectivity			
HDMI socket with HDCP 2.2 (4K 60/50p 4:4:4) / and with ARC	4/1	4/1	4/1
USB connection 2.0 / USB-Anschluss 3.0 (video/photo/audio)	1/1	1/1	1/1
LAN Network connection (RJ 45)	•	•	•
S/PDIF digital audio output / Audio output	•/•	•/•	•/•
Headphone socket / EURO-AV socket via adapter	•/•	•/•	•/•
Audio input and Cinch (FBAS/L/R) via adapter	•	•	•
Power consumption			
Mains voltage	230–240V/50Hz	230–240V/50Hz	230–240V/50Hz
Power consumption in use (in delivery condition)	107,0	95,5	91,0
Power consumption in standby mode [W]	0,15	0,15	0,15
Peak luminance ratio [%]	65	65	65
Annual energy consumption [kWh]	148	132	126
Energy efficiency category (spectrum A++ till E)	A	A	B
Dimensions / weight			
Width [cm]	123,2	109,5	96,3
Height with base / without base [cm]	82,2 / 77,2	74,1 / 69,2	67,1 / 61,9
Depth with base / without base [cm]	30,0 / 7,1	30,0 / 7,0	30,0 / 7,0
Weight with base / without base [kg]	28,0 / 24,7	22,0 / 19,2	18,6 / 15,7
Other information			
Mercury concentration in mg	0,0	0,0	0,0
Contains lead (within statutory prescriptive limits)	•	•	•

Metz Micos (Page 48)

Metz Cosmo (Page 60)

Micos 55 TX68 UHD twin	Micos 49 TX68 UHD twin	Micos 43 TX68 UHD twin	Cosmo 43	Cosmo 32
LCD TV with LED technology	LCD TV with LED technology	LCD TV with LED technology	LCD TV with LED technology	LCD TV with LED technology
140	123	108	108	80
•/-	•/-	•/-	-/•	-/•
-/-	-/-	-/-	-/-	-/-
400Hz MetzVision	400Hz MetzVision	400Hz MetzVision	200Hz MetzVision	200Hz MetzVision
700.000 : 1	700.000 : 1	700.000 : 1	600.000 : 1	600.000 : 1
•/•	•/•	•/•	-/•	-/•
380	380	380	350	340
178	178	178	178	178
5	5	5	6	6
•	•	•	-	-
2 × 20	2 × 20	2 × 20	2 × 15	2 × 12
6	6	6	6	4
•/-	•/-	•/-	-/•	-/•
•	•	•	•	•
•/•	•/•	•/•	•/•	•/•
•/•	•/•	•/•	•/•	•/•
•	•	•	•	•
•	•	•	•	•
RM18/•	RM18/•	RM18/•	RM18/-	RM18/-
-	-	-	-	-
•	•	•	•	•
•	•	•	-	-
•	•	•	•	•
•	•	•	•	•
•/all	•/all	•/all	•/max. 50	•/max. 50
•	•	•	•	•
•/•	•/•	•/•	•/•	•/•
•/•	•/•	•/•	•/-	•/-
2 × DVB-C/T2/S2	2 × DVB-C/T2/S2	2 × DVB-C/T2/S2	1 × DVB-C/T2/S2	1 × DVB-C/T2/S2
•/•	•/•	•/•	-/•	-/•
2	2	2	1	1
•/•	•/•	•/•	-/•	-/•
• (•/•)	• (•/•)	• (•/•)	• (-/•)	• (-/•)
•	•	•	-	-
Tuneln	Tuneln	Tuneln	Radioline	Radioline
Foxxum/•	Foxxum/•	Foxxum/•	Opera/-	Opera/-
•/•	•/•	•/•	•/•	•/•
-	-	-	-	-
4/1	4/1	4/1	3/1	3/1
1/1	1/1	1/1	2/0	2/0
•	•	•	•	•
•/•	•/•	•/•	•/•	•/•
•/•	•/•	•/•	•/•	•/•
•	•	•	• (only Cinch)	• (only Cinch)
230-240V/50Hz	230-240V/50Hz	230-240V/50Hz	230-240V/50Hz	230-240V/50Hz
106,0	90,0	82,0	55,0	41,0
0,15	0,15	0,15	0,12	0,12
65	65	65	65	65
147	125	114	76	57
A	A	B	A+	A
123,2	109,5	96,3	96,3	73,3
82,2 / 77,2	74,1 / 69,2	66,7 / 61,9	67,1 / 61,9	54,0 / 48,0
30,0 / 7,4	30,0 / 7,7	30,0 / 7,7	30,0 / 7,0	24,0 / 5,5
28,0 / 24,7	22,0 / 19,2	18,7 / 15,8	18,6 / 15,7	9,4 / 7,3
0,0	0,0	0,0	0,0	0,0
•	•	•	•	•



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