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# SOFTWARE CHANGELOG CHASSIS 618 – MGS618 („TY“)

27.11.2024, Version 1.14, English



The **MGS618** firmware can be used for the following Metz Classic TV devices with type designation **TY**:

**Micos** 43TY61, 49TY61, 55TY61

**Calea** 43TY62, 49TY62, 43TY64, 49TY64, 50TY64

**Fineo** 43TY83, 43TY82, 49TY82, 49TY83, 43TY85, 49TY85

**Alegra** 43TY86, 43TY87, 49TY86, 49TY87

**Fineo OLED** 55TY82

**Topas OLED** 48TY91, 55TY91, 65TY91

**Cubus** 43TY65<sup>1</sup>, 43TY76<sup>1</sup>, 50TY65<sup>1</sup>, **Pro** 43TY80

**Taris** 43TY84, 43TY89<sup>1</sup>, 43TY90, 43TY79<sup>1</sup>, 50TY84, 50TY89<sup>1</sup>

**Aurus OLED** 55TY88<sup>2</sup>, 48TY88, 48TY81<sup>1</sup>

**Lunis OLED** 42TY92<sup>1</sup>, 48TY92<sup>1</sup>, 55TY92<sup>1</sup>, 65TY92<sup>1</sup>

<sup>1)</sup> ErP2023 conformity <sup>2)</sup> ErP2023 conformity with revision x2/x3 etc





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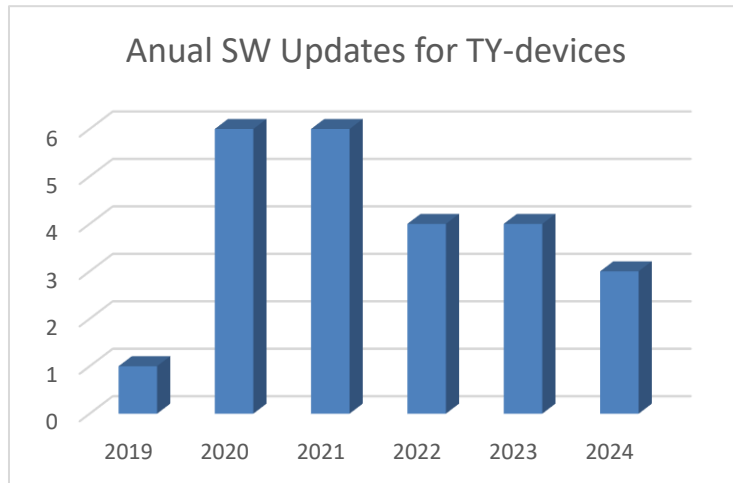


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Changes and errors excepted!

## INTRODUCTION

With this “Software Changelog” we document our software updates for the “TY” generation of TV sets transparently and in detail. In addition to security updates and general improvements, product maintenance also includes functional expansions.



## MGS618 V2.32C (2024-11-08)

Changes compared to the version **V2.31C**:

### NEW FUNCTIONS:

- Teletext adjustments: The option to deactivate the live image while using teletext has been added to provide a more pleasant reading experience.
- Alphabetical sorting of the web app list: Web apps are now displayed in alphabetical order so that the desired application can be found more quickly.
- Tri-Star operating menu security query: A security query has been added to avoid unintentional changes to the operating level.

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

#### General

- HEVC (H265) stability: The stability when playing programs in HEVC format (e.g. DVB-T2, DVB-C or DVB-S2) has been improved. This prevents system crashes with the resulting loud humming and distorted picture.
- Web app scrollbar: The display of the scroll bar in the web app overview has been improved to make it easier to navigate the list of apps.
- Menu and navigation: Improved navigation in the home menu and source selection for smoother operation.
- Program switching in AV mode: Program switching in AV mode, especially for multi-window (PIP) or media play mode, has been optimized.
- Favorite lists: Improved handling of favorite lists, even when they are empty.
- Subtitles in the media player: The display and operation of subtitles during media playback have been improved.



- FPGA software update: The stability of the software update for the FPGA chip has been increased, even when a CI module is installed.
- Audio optimization: Improved lip synchronization and audio quality for various programs for a more pleasant listening experience.
- HbbTV interoperability: Optimized compatibility with live content in the ARD media library and improved display of status information when HbbTV is activated.
- Image Viewer color representation: Improved color reproduction for PNG images in the image viewer.
- Thumbnail support for TIFF format: The image viewer now supports thumbnails in TIFF format.
- Installation wizard search options: New setting options for the search have been added to select the preferred search method.
- DVB-S configuration: The DVB-S configuration has been adjusted so that the one-star mode can now be selected more easily.
- Help texts: Various help texts have been revised and improved.
- Favorite list switching processes: Optimized switching times even with empty favorite lists.
- PIP resource management: The selection and management of programs for picture-in-picture has been improved.
- Channel selection with active PIP: The channel selection in PIP mode has been optimized.
- Internet update and sorting table updates: The updating of sorting tables and firmware search function has been improved to provide current data more reliably.

#### **DVB, PVR, CI+, EPG**

- DVB radio stability: Improved sound reproduction when using the AD balance menu in DVB radio.
- Public value sorting: Adjustment of the channel order for special channels such as DMF and sixx.
- DVB-C sorting: Optimized sorting for DVB-C providers in Austria.
- DVB-T2 TWIN recordings: Improved support for double recordings (TWIN) with DVB-T2 antennas.
- DVB-S Scan Unicable: Improved manual search option for Unicable systems according to standard EN50607.
- DVB-C Scan LCN: More stable search for DVB-C providers in Austria.
- EPG Scan: The EPG scan has been optimized to find information faster.
- PVR and USB differentiation: Better differentiation between identical external USB devices for error-free recording planning.
- PVR Timeshift: The timeshift buffer size is now adjustable so that the time-shifted recording period can be individually adjusted.
- CI+ Operator Profile: Improved support for "HD Austria" and "ORF DVB-S2" CI modules for a seamless TV experience.
- DVB-S Scan Fine Search: Optimized and more stable DVB-S scan specifically for the Astra satellite.
- EPG Radio View Navigation: Improved navigation in the EPG radio view.
- EPG scan: The nightly EPG scan now starts automatically between 3:00 a.m. and 3:59 a.m.

#### **HDMI, ARC, CEC**

- CEC ARC interoperability: Optimized compatibility with soundbars such as "Teufel CS 42" and amplifiers such as "DENON AVR-X1300W".
- HDMI CEC control: Improved control of HDMI devices via the picture-in-picture function (PIP) and CEC controls.



- HDMI-ARC initialization and hotplug: Optimized initialization and detection of ARC devices, even if they are connected during operation.
- HDMI/ARC numeric key control: Switching on via the numeric keys has been optimized to immediately reach the desired station.
- Hotplug behavior with HDMI/ARC: Improved reliability when connecting and removing HDMI-ARC devices during operation.
- HD+ IP-Stick: Improved interoperability for the HD+ IP-Stick, including faster detection and the ability to open the HOME menu directly via the TEXT button.
- HDMI CEC P+/P- control: The P+/P- buttons can now also be used for program changes on external sticks such as HD+ IP-Stick or Magenta.

## MGS618 V2.31C (2024-03-25)

Changes compared to the version **V2.31B**:

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- DVB-T2 HD reception of programs in the Hamburg, Hannover, Bremen and Göttingen area optimized for the use of new broadcasting equipment at NDR
- EPG: search optimized
- PVR: Formatting optimized for partitionless hard drives
- PVR: Improved user interaction of the Timeshift function for devices without an internal hard drive

## MGS618 V2.31B (2024-03-13)

The version was used in production and was not made available OTA.

Changes compared to the version **V2.30E**:

### NEW FUNCTION:

- Support new devices: Cubus Pro 43TY80, Taris 43TY79
- Photo viewer, file manager: Support PTP (Picture Transfer Protocol) for digital cameras

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

#### HDMI/CEC/ARC

- Switch-off behavior of CEC devices optimized with the "TV device only" option
- Optimization of the initialization of CEC devices for ARC
- Stability improved with various BD players
- Improved interoperability with Fire TV device
- Improved interoperability with Magenta Stick and Magenta One

#### DVB

- Search interoperability for various "DVB providers" improved
- Reception properties improved ("No antenna signal" message)
- Search stability improved



- Public value sorting updated (Bild TV, Servus TV no longer applicable, Eurosport changed)
- CI+ interoperability for "Operator Profile" functions improved

#### **PVR**

- MP4 export optimized to data partition
- Quick boot mode optimized for using a hard drive
- Timeshift operation optimized
- Improved user notification when "Timeshift Permanent" function is not possible

#### **Medioplayer**

- System stability increased for subtitle streams with Chinese characters
- Improved interoperability with various streams with subtitle tracks
- Improved interoperability regarding the image format of various streams
- Support for "Audio Interchange File Format" (AIF)

#### **F-Menu**

- Web app list: List limit of 20 apps removed
- Move option of F functions optimized
- "YouTube" recorded in default configuration at position 2 and "Picture off" at position 9

#### **User Interface / Experience**

- Added "Korean" language for audio tracks
- Teletext: Navigation of bookmarks optimized with P+/P-
- Navigation in the station table optimized by direct entry of number buttons
- Optimized display of service names in favorite lists

#### **Micellaneous**

- MetzRemote App: Interoperability regarding HbbTV function improved
- Improved stability for image signal processing for OLED 55"/65".
- Plain text display: Improved display of various operating states
- Bluetooth: Interoperability with various devices (LG XBOOM Go) improved
- Live streaming: Support also for devices without PVR
- Switch-off behavior of the panel optimized
- Channel list import function optimized
- "Overscan SD/HD" setting optimized for zoom/panorama

MGS618 V2.30E (2023-10-04)

Changes compared to the version **V2.21F**:

NEW FUNCTION:

- Sorting according to “Public Value” recommendation for Germany and regionalization for Austria
- Region configuration option for channel sorting in the menu and in the installation wizard
- Sorting of radio programs for Germany according to “Public Value” recommendation
- Initialization of the channel lists in the service menu updated according to the “Public Value” recommendation
- Channel sorting updated for Italy and Switzerland
- F-tile: Media libraries can be configured via the web app list on F-tile

BRIEF INTRODUCTION OF THE NEW FEATURES:

NEW PROGRAM SORTING BY „PUBLIC VALUE“ WHEN DVB SEARCH

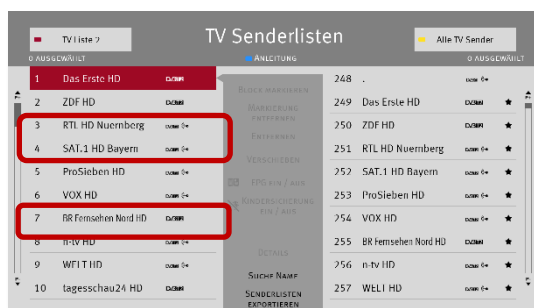
In the future, program sorting will be carried out for the “Metz Standard” sorting setting according to the public value recommendation of the media authorities. For “Germany”, after the search, the programs listed in the program list are those that are named as public value offers in the State Media Treaty or have been determined as public value offers by the state media authorities. Public value offers are all those offers that offer added value for users and are particularly important for forming public opinion.

The order of the programs may differ depending on the reception area and the availability of the channels. If the public value lists are updated by the state media authorities, the sorting will be adjusted accordingly.

Programs that have not been named or designated as public value offerings are then included in the program list sorted alphabetically. Alphabetical sorting makes creating a user-specific favorites list more convenient.

Overview of Public Value offerings: <https://www.die-medienanstalten.de/public-value>

Regionalization for Bayern | Mittelfranken:



Regionalization for Bayern | Mittelfranken:





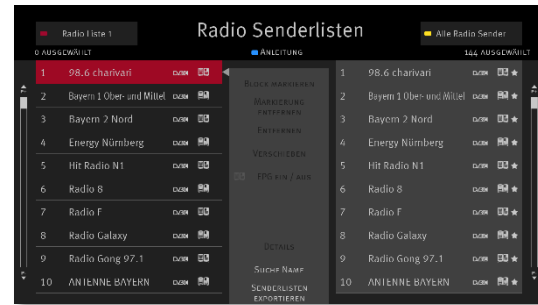
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### Regionalization Radio for Bayern | Mittelfranken:



### Regionalization Radio for Bayern | Mittelfranken:

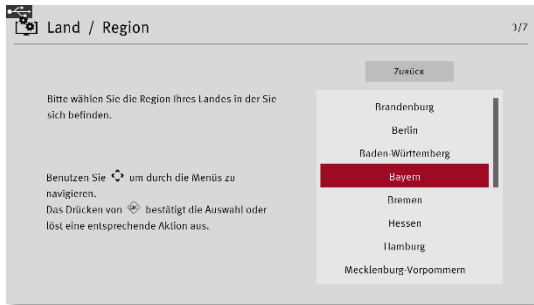


With the search setting “all”, encrypted HD programs may also be prioritized, with the search setting “free only”, unencrypted SD programs will be sorted according to the public value specifications.

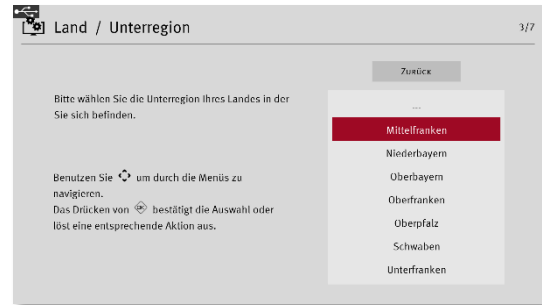
## CONFIGURATION OF THE REGIONS FOR GERMANY AND AUSTRIA

Optionally, the reception region can also be specified during the search for Germany or Austria in order to also include the federal state and regional aspects within a federal state when sorting. By prioritizing regional programs, the needs and interests of the different regions within a federal state are taken into account.

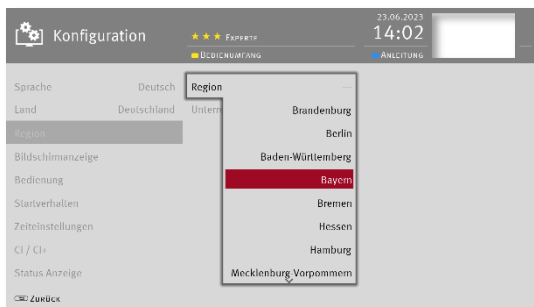
### Region in the installation wizard (Germany):



### Sub-region in installation wizard (Germany):



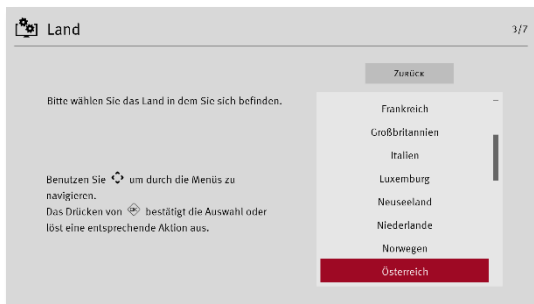
### Region in Configuration (Germany):



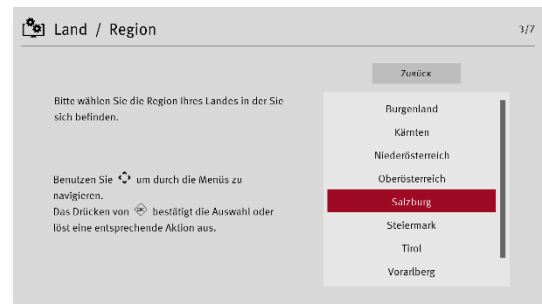
### Sub-region in Configuration (Germany):



### Country Configuration for Austria:



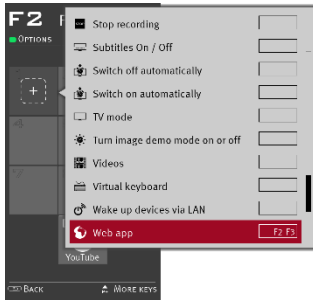
### Region Selection for Austria:



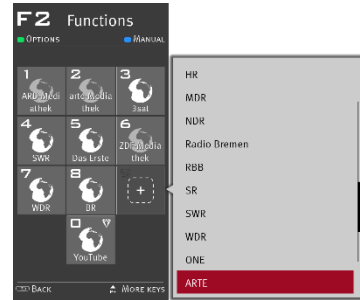
## F-MENU: MEDIA LIBRARIES CONFIGURABLE VIA WEB APP LIST ON F-TILE

With the **Web-App** function, the selection list of web applications is expanded to include various public broadcasting media libraries. This enables quick access to various HbbTV media libraries via the F function.

### Web-App function in F-Menu „Add“:



### Selection list expanded with media libraries:



## INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- **HDMI-CEC:** Switch-off behavior of CEC devices optimized with the “TV device only” option
- **HDMI-CEC:** 4h off timer is now correctly reinitialized with CEC commands
- **WLAN:** Password remains saved even after firmware update
- **OSD:** Display of signal quality optimized
- **DVB-S channel search:** Stability and search function improved
- **Live streaming:** Live streaming via MetzRemote app optimized when hard drive is switched off in the eco image profile
- **DVB reception:** Criterion for warning “no antenna signal” revised
- Switch-off behavior optimized for devices without plain text display (Calea).
- Automatic format optimized for playback with media player
- **Image display:** Stability increased for “Lunis 42 OLED” displays



## MGS618 V2.21F (2023-06-20)

Changes compared to the version **V2.20G**:

### NEW FUNCTION:

- Support new TV devices: Taris 43TY89, 43TY79, Cubus 43TY76, 43TY66, 50TY66
- **PVR**: Added timeshift function in radio mode

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

#### Micellaneous

- **FPGA**: Version V106/V06 for HW adjustments Cubus
- **MetzRemote**: "Pause" command optimized for various use cases
- **Image menu**: System stability increased when navigating in "Image | General | Standard profile for | SDR"
- **Audio**: Increased reliability of correct delay settings for Bluetooth
- **Control4**: Switch-off behavior of TV devices optimized via Control4
- **HbbTV**: Improved system stability for HbbTV subtitles

#### PVR

- Timeshift function optimized when using a new unformatted hard drive
- System stability increased when navigating in the PVR archive with the language set to "French"
- Programming of recording series with time tolerance 0 improved
- Timeshift recording from the timeshift buffer optimized for radio recordings
- Moving archive files from internal to external hard drive optimized

#### HDMI / CEC / ARC

- CEC devices are arranged in "VoD tile" when the vendor ID 0xFFFF is transmitted. Unfortunately, not all manufacturers signal valid vendor IDs, which can lead to recognition problems.
- Switching off CEC in the menu optimized
- Screen shutdown prevented after 30 seconds in HDMI mode if DVB radio was selected as the starting program location
- TV device switch-on behavior optimized by HDMI devices

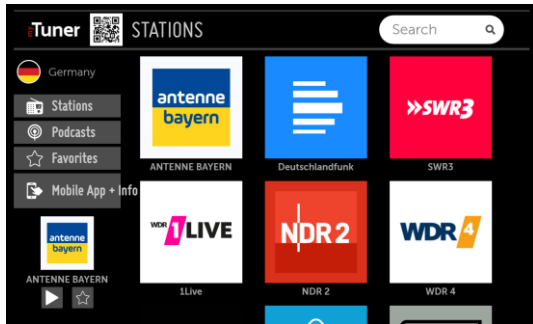


## NEW INTERNET RADIO APP MYTUNER (2023-03-01)

We are introducing the new internet radio app **myTuner** for devices with chassis 618 (TY) and 616 (TX). The Internet radio app can be accessed via the **HOME** menu under the tile "**Radio |Internet**"

The change took place on Wednesday, March 1st, 2023 at 3:00 p.m.

With **myTuner** we offer access to international radio programs from 149 countries.





## MGS618 V2.20G (2023-03-01)

Changes compared to the version **V2.20F**:

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

#### Micellaneous

- **Cubus**: Brightness changes in the main image eliminated when changing programs in PIP
- **PVR**: Optimized noise from the hard drive when switching to standby
- **PVR**: Improved warnings about reaching capacity limit for hard drive recordings
- **DASH**: Interoperability improved with new replay service on ARD-TEST-1
- **Control4**: Source change according to TV optimized
- **Control4**: Targets optimized for source switching via Network API functions

#### HDMI / CEC / ARC

- Improved interoperability with Bose Soundbar 700
- Switch-on behavior optimized with BD player
- Improved interoperability with Swisscom Box IP1800 in quick start mode



## MGS618 V2.20F (2023-01-25)

Changes compared to the version **V2.20D**:

### NEW FUNCTION:

- Support for new TV sets **Cubus 43TY65, 50TY65** ([Link to the product](#) | [Link to the press release](#) | [Link to the MetzBlog](#) | [Link to the product video](#))

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

#### Micellaneous

- Fixed image glitches caused by EPG background search. If the image disturbances are not resolved after the software update to V2.20F, we recommend a new channel search with the option "All previous channel lists: discard". Old programs that can no longer be tuned should also not be activated for the EPG function.
- Test functions optimized for manufacturing
- Switch-off behavior optimized if internet timers are active
- **Bluetooth**: Device pairing improved, update to BlueZ 5.65
- **Parental controls**: Security gap when playing via media player closed
- **Service menu**: Updated program lists for Astra, Astra-AT and Hotbird
- ERP parameters updated for Aurus 48TY81x2 and 55TY88x2
- The switch-off process can be interrupted again with a switch-on command
- **EPG**: Improved contrast in the calendar for the "Dark" scheme
- Help texts improved

#### HDMI/CEC/ARC

- CEC On/Off menu function optimized
- Switch-on behavior optimized for HDMI players connected behind an AV receiver
- HDMI/CEC functions optimized according to media player usage
- Optimization for ext. Amplifier and volume change via S/PDIF
- Switch-off behavior optimized for Swisscom Box IP 1800
- VoD HOME tile support for "NOKIA androidTv Streaming Box 8000"

#### PVR

- Improved usability if the USB device for MetzPVR was formatted in the wrong format
- Hard drive detection optimized for MetzPVR (empty .MUD file)
- Timeshift function deactivated on HDMI program slot
- Mute/V+/-/Standby buttons supported in Timeshift startup process
- Timeshift "permanent" regarding resource management improved
- Optimized warnings when hard drive capacity limit is reached



## MGS618 V2.20D (2022-12-14)

Changes compared to the version **V2.20C**:

### NEW FUNCTION:

- Support for new TV sets **Cubus 43TY65, 50TY65** ([Link to the product](#) | [Link to the press release](#) | [Link to the MetzBlog](#) | [Link to the product video](#))

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

#### Micellaneous

- **Media player**: Interoperability for audio codec FLAC improved
- **Media player**: Playback of TS files optimized with regard to image stuttering
- Taris 43TY89/50TY89: ErP2023 parameters optimized
- Help texts improved
- **Photo Viewer**: Improved interoperability for high-resolution JPEGs
- **WLAN**: Connection with unencrypted WLAN networks optimized
- **DLNA**: MetzPVR server accessible again via network
- **File manager**: Optimized logout process from USB devices

#### PVR

In order to avoid software erosion and ensure maintainability in the long term, we introduced a "PVR redesign" with **V2.20C**. The following improvements are now being implemented:

- OSD information improved if delays in hard drive operation are expected due to hard drive startup
- Improved system stability of two ongoing recordings
- Recording behavior optimized when the hard drive is almost full and the "Overwrite" setting has been selected
- Accurate recording "follow-up time" saved permanently
- Recording to external USB device without prior formatting improved
- External USB devices can be formatted even though a PVR function is active
- Stability of Timeshift function with external hard drive improved
- Operation blockage eliminated after formatting the internal hard drive
- Hard drive detection optimized in quick start mode
- Termination behavior optimized with EXIT
- Optimized switch-off behavior of Calea devices with connected external hard drive
- Support for an HDD that was previously used internally as an external hard drive
- Fast forwarding a current recording in the PVR archive remains in "Near-Live" and does not end playback
- First jump back in Timeshift permanently 20 seconds again
- Recording series function optimized if identical EPG events with different EventIDs are transmitted
- Warnings improved when MetzPvr archive is too full for new recordings and deletion of old recordings has not been configured



## HDMI/CEC/ARC

Despite the HDMI certification of our TV set, various HDMI players require ensuring and improving interoperability.

- Switch-off behavior optimized with connected HDMI devices, e.g. for Bluesound Powernode Amplifier
- Switching behavior optimized for Denon AVR-1300W and Sony BDP-S550
- Switch-off behavior optimized in quick start mode
- Support for STRONG SRT41 and Swisscom TV-Box IP 1800 on VoD tile in the HOME menu
- OSD: "Resolution optimized for: Auto/UHD/FHD" renamed to "Compatibility: Auto/Standard/Low"
- Interoperability with "Amazon FireTV Cube" improved for the "Auto" and "Standard" settings
- CEC function optimized according to media player usage



## MGS618 V2.20C (2022-10-17)

Changes compared to the version **V2.11F**:

### NEW FUNCTION:

#### Miscellaneous

- Support new TV sets **Lunis OLED** 42TY92, 48TY92, 55TY92, 65TY92 ([Link to the product](#) | [Link to the MetzBlog](#) | [Link to the product video](#))
- **EPG**: Added configuration for EPG background update during operation
- **Channel search**: Sorting for DVB-C cable provider Vodafone adjusted after channel change
- **LAN/WLAN**: LAN reduced to 100 Mbps when network is configured for WiFi. If you operate the network via LAN, then WLAN is switched off (assuming Bluetooth is not active).
- **Internet radio**: after **TuneIn** has been set, we offer the Internet radio services **Radioplayer** and **myTuner** for configuration on an F tile via the web app list

#### PVR

- Switch-on behavior changed in the eco profile for devices with an internal hard drive (only for devices with ErP2023)
- Timeshift pause start behavior improved: Progress indicator added and freeze frame only activated when playback from the timeshift buffer is possible without large jumps
- Timeshift buffer size doubled (8h for SD, 4h for HD)
- Archive and USB device names standardized in the UI
- Display of USB volume names (volume name in Windows Explorer) added in the UI, for example to better distinguish between identical external hard drives
- Reliable storage of the last playback position of recordings in the archive
- Clear identification of external hard drives with MetzPVR archive and resulting improvements for recording control when using multiple external PVR archives

### BRIEF INTRODUCTION OF THE NEW FEATURES:

#### EPG BACKGROUND UPDATE CONFIGURABLE

The EPG database is updated at least every 12 hours. If the TWIN tuner configuration allows it and the second tuner is not used for recordings/PIP, the EPG update also takes place while the device is in operation. If updating is not possible during ongoing operation, the device is switched on from standby for the EPG search. A nightly check occurs at 2:30 a.m.

In order to better recognize broadcast changes, we are introducing EPG background updating during operation. Under „**Configuration | Recordings/EPG | EPG background update**“, the function can be switched on or off.

When the function is switched on, the EPG data for all services that can be tuned is constantly updated. If it is not possible to search on a second tuner input due to the reception situation, then at least all programs on the currently tuned multiplex (transport stream) will be updated. This means that the EPG data should always be up to date, at least on the current multiplex, and shifts in programs such as Focus on ARD etc. should be recognized.



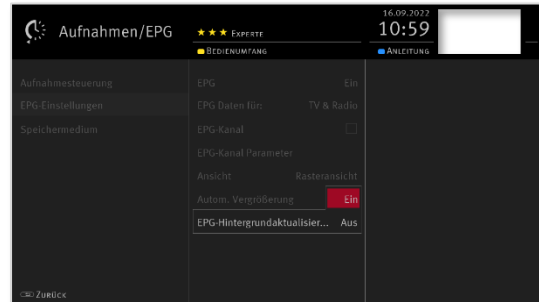
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### Configuration | Recordings/EPG | EPG settings:



### Backgroundscan configurable:



When delivered, the EPG background update is switched on.

### NEW INTERNET RADIO SERVICE AVAILABLE

After the Internet radio service **TuneIn** has been discontinued, we offer two alternative Internet radio services **Radioplayer** and **myTuner** for configuration on an F tile via the **Web-App List**.

### Access via „Radio | Internet“:



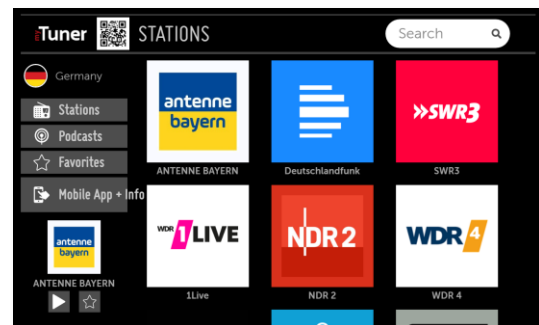
### Web-App List with new Internet Radio services:



### Radioplayer:



### myTuner:



The **Radioplayer** service can be selected via the Internet via the **Radio** tile in the **HOME** overview.

## PVR: POWER-ON BEHAVIOR WITH ECO PROFILE FOR DEVICES WITH INTERNAL HARD DRIVE

With increasing awareness of energy saving and the implementation of the Energy Saving Ordinance 2023 (ErP2023), we are expanding the range of functions of the eco profile for devices with an internal hard drive.

If a device with a built-in internal hard drive is switched on in the eco profile, the internal hard drive will not start yet. The hard drive is only turned on when the user requests and wants to use a hard drive function. These include, for example, recordings, timeshift functions, applications that require hard drive access (e.g. media players or file managers).

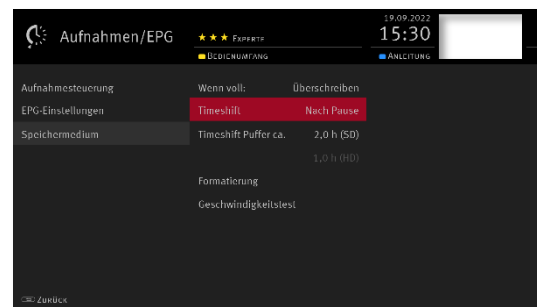
The switch-on behavior is shown to the user with a progress indicator “Hard drive is starting! Please wait.” is displayed.

If the TV is started in a different picture profile, the hard drive also starts during the switch-on process without the user explicitly selecting a hard drive function.

**Starting the internal hard drive in eco profile through user interaction:**



**Timeshift permanent is not possible in the eco profile**

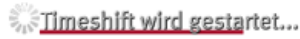


The “**Timeshift Permanent**” function is no longer supported in the Eco image profile. If you change the image profile, the “Permanent” timeshift mode is possible again.

### PVR: TIMESHIFT-PAUSE BEHAVIOR CHANGED

The start behavior of the **timeshift-pause** transition has been improved with the aim of no longer having any jumps or gaps until the next possible playback from the timeshift buffer. Previously, gaps of around 10 to 15 seconds arose after starting the timeshift function.

If the user starts **Timeshift Pause** with the **Pause** button, the following indicator in the upper left corner of the image shows the transition to playback mode from the Timeshift buffer. However, the image continues to run during the transition.



The image only stops when playback from the timeshift buffer is possible. The pause symbol is displayed in the top left corner of the image and the information banner shows the "Playbar" with the live times. Playback is now possible.

#### Start timeshift with **PAUSE**-key:



#### Start timeshift playback with **PAUSE/PLAY**-key:

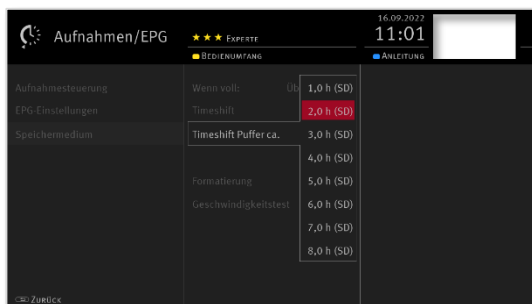


The time for the transition to timeshift playback mode depends on various factors and differs depending on the application (SD/HD/UHD, timeshift after pause/permanent, switch-on behavior in the eco profile, etc.).

### PVR: SIZE OF TIMESHIFT BUFFER DOUBLED

The size of the timeshift buffer memory has been doubled. This results in approximately 8 hours of recording capability for SD resolution and approximately 4 hours for HD resolution. The times are guidelines and can vary depending on the data rate and the video codec used.

#### Configuration | Recordings/EPG | Storage medium | Timeshift Buffer



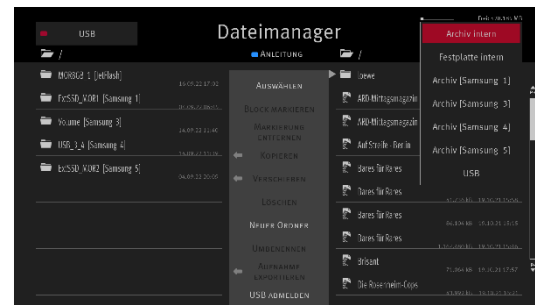
## PVR: NAMES OF ARCHIVE AND USB DEVICE UNIFIED

The disk label display has been added to the archive name to make it easier to distinguish between multiple connected external hard drives. The volume name of the hard drive can be assigned, for example, on a Windows PC using Explorer under Properties. The volume name is then displayed accordingly in the TV UI.

Display of the volume name for archive selection:



USB disk label in file manager:



## INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- **DVB subtitles** are suppressed in the HbbTV application and may be reactivated after switching to DVB Live
- **Bluetooth:** Update to BlueZ 6.64; Display of title and artist in the additional OLED display when playing media via mobile devices (for BlueZ drivers)
- **DVB subtitles:** selection and scrolling behavior for various programs improved (e.g. arte HD)
- **Audio:** Volume differences compensated for media player source selection
- **EPG:** Optimized display in additional OLED display when the device switches on in standby for the EPG background search
- **TWIN tuner function:** various restrictions for DVB-S single SAT setting, DVB-C/T mixed operation optimized
- Detection of unformatted or incorrectly formatted hard drives improved so that they can then be formatted in the TV set
- Brightness adjustment in the image profile: display of the test pattern optimized
- **HDMI:** Improved interoperability with Telekom Magenta TV
- MCU software updated to V1.16
- **Media player:** Improved interoperability with DASH "on demand" profiles
- **Internet radio:** after Tuneln has been set, the Internet service Radioplayer can be selected via the HOME Radio tile
- **HDMI-CEC:** Switch-off behavior optimized with "TV device only" when a CEC device is connected.
- **Internet timer:** Improved synchronization when the TV is switched on
- **Privacy policy** updated to version 2.3



## MGS618 V2.11F (2022-09-08)

The version is not made available OTA, the changes described will be included in the next OTA update.

Changes compared to the version **V2.11D**:

### NEW FUNCTION:

- Support of new TV set **Aurus OLED 48TY81**

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- **HDMI-CEC**: Improved interoperability with Canton AV amplifier "Smart Connect 5.1".
- **CI+**: Fixed sometimes no sound in HD+ services when using a Viaccess Clv1 module at the same time

## MGS618 V2.11D (2022-08-02)

Changes compared to the version **V2.10G**:

### NEW FUNCTION:

- **Audio**: "Clear Language" soundtracks newly introduced by ARD and ZDF are marked with a new logo in the soundtrack selection menu and in the information banner
- **Audio**: Added audio track preference for "Audio Description" or "Plain Speech" under "Audio | General | Audio Track Preferences | Use".
- **HOME feature overview**: The guide and TV tutorials can be accessed via the "Guide/TV Tutorials" tile
- **Accurate Recording**: an optional delay time of up to one minute can be set in 5 second increments
- **HDMI**: unused HDMI inputs are shown inactive (gray) in the user interface
- **TivuSat**: DVB-S search for TivuSat sorting is added in the installation wizard
- **Program list import/export**: additionally in MST60 format (JSON) with support for LCN lists
- **Software update**: in the future, a QR code will link to the "Software changes" in the update dialog
- Crystal Motion OLED (CMO) function introduced for various OLED models (black frame insertion for motion compensation); Added display in "HDMI Video Details".
- **Bluetooth**: Support for two headphones for the BlueZ HW/SW
- **Audio**: Sound stop for headphones can be configured
- Individual adjustment of image brightness to different lighting situations
- **Dolby Vision** games profile added
- **OLED Maintenance**: Added "Request Calibration" and "Pixel Shift" functions under "Image | General".
- **CI settings** under menu configuration rearranged and expanded with PIN entry for "CI+ V1.3 standby recordings".



BRIEF INTRODUCTION OF THE NEW FEATURES:

LABELING THE „CLEAR LANGUAGE“ SOUND TRACK NEWLY INTRODUCED BY ARD/ZDF

From June 1st, 2022, ARD and ZDF introduced an additional new audio track “Clear Language” for various programs. In the case of the “Clear Speech” audio track, an AI-based real-time process is used to clearly emphasize the language, thereby improving speech intelligibility on the transmitter side.

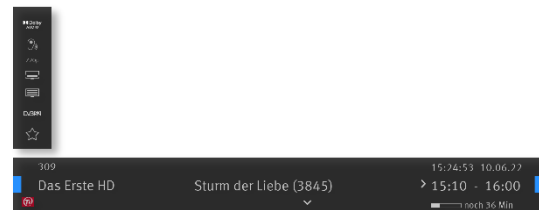
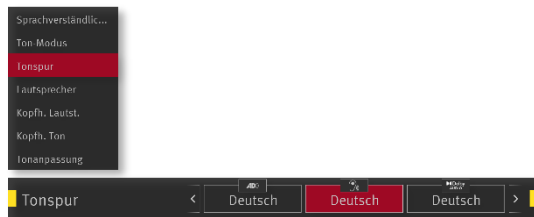
The offer is available for the ZDF main program, ZDFneo, 3sat and ZDFinfo. This additional audio track is offered on ARD to expand accessibility for Das Erste, as well as on NDR, WDR and rbb. Other third parties will follow shortly.



To make it easier to find the new audio track, we mark the track with this logo :

Marking with logo in the soundtrack selection

Identification of the audio track in the information banner



The following links further information is provided by the broadcaster:

- ARD: <https://www.ard-digital.de/inklusion/klare-sprache>
- ZDF: <https://www.zdf.de/zdfunternehmen/technik-klare-sprache-100.html>

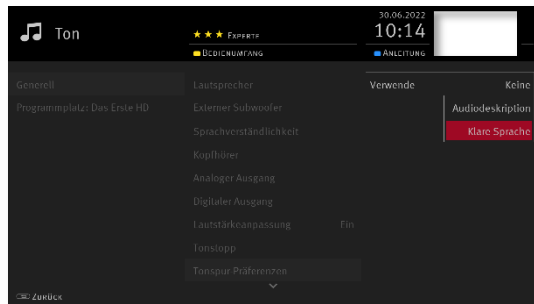
The following TV tutorial shows how to make optimal use of the new “Clear Language” soundtrack:



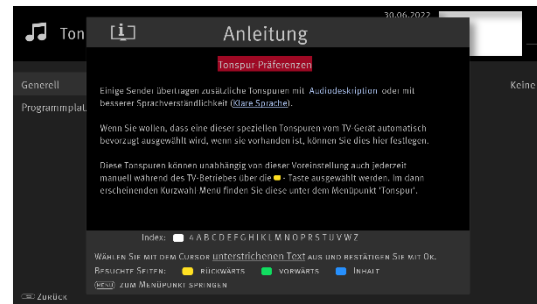
## AUDIO TRACK PREFERENCE FOR „AUDIO DESCRIPTION“ OR „CLEAR LANGAUGE“

To make it easier to find ARD and ZDF's accessibility offerings, you can set a soundtrack preference in the sound menu under “**Sound | General | Audio track preferences**” possible. The selection preference can be set to “**Audio Description**”, “**Clear Voice**” or “**None**”. If there is no manual audio track setting for a program, the set audio track preference is automatically selected after the program is selected.

### Setting audio track preferences in the Sound menu



### Help with audio track preferences



## ACCESS METZ-CE TV TUTORIALS VIA HOME FUNCTION MENU

Access to the Metz-CE TV tutorials (YouTube) is now not only possible via a function tile via the web app function, but also via the HOME function overview.

### Access TV tutorials via HOME



### „Instructions“ or „TV tutorials“ can be selected



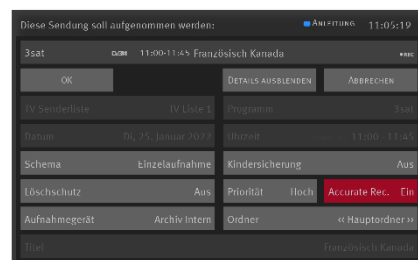
## OVERRUN TIME ADJUSTABLE FOR „ACCURATE RECORDING“ RECORDINGS

Recordings with the “Accurate Recording” function switched on start with a fixed lead time of 13 minutes according to the requirements of the Nordig PVR specification. The actual start of recording occurs when the EIT “Now Events” is signaled by the transmitter with the status “Ongoing”. The end of the broadcast is also signaled by the transmitter. Unfortunately, the transmitter control is not always accurate to the second and recordings stop too early. By configuring an optional “AR follow-up time”, the end of the recording can be extended by up to one minute as specified by the transmitter.

### Overrun Time AR configurable:



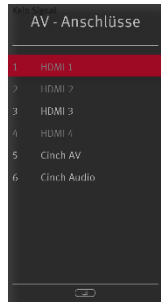
### Recordings dialog with Overrun Time AR:



## MARKING INACTIVE HDMI INPUTS

Inactive HDMI inputs will in future be displayed in a different shade of gray to make it easier to see the status of connected AV devices.

### Inactive HDMI Inputs in the AV menu:



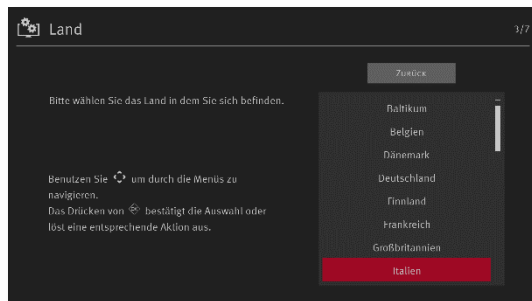
### Inactive HDMI Inputs in the Function Menu:



## SEARCH FOR TIVUSAT VENDOR IN THE INSTALLATION WIZARD

With software version V2.10E, the DVB-S installation channel search was introduced for the Italian provider TivuSat. This search variant is now also possible in the installation wizard for the satellite position "Hotbird 13°".

### Country Configuration in Installation Wizard



### Provider Search for TivuSat

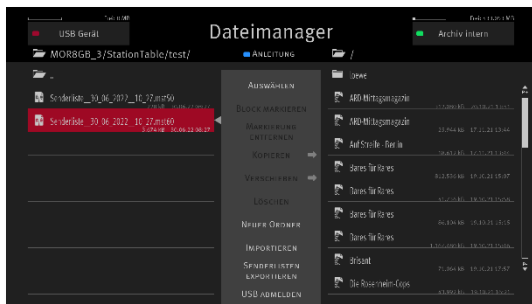


## PROGRAM LIST IMPORT/EXPORT WITH MST60-FORMAT (JSON)

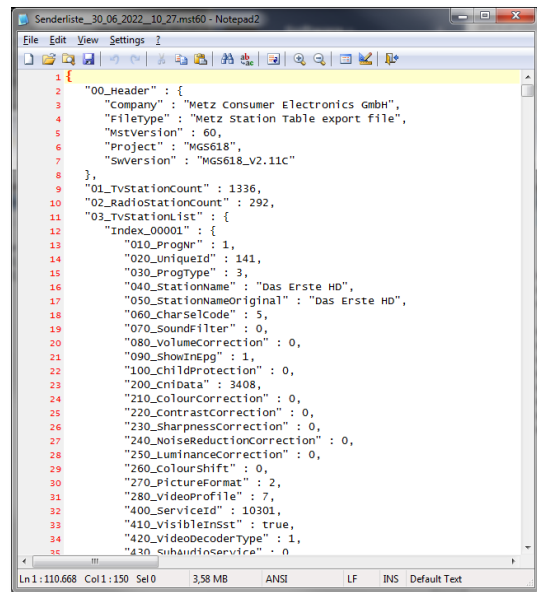
When exporting channel lists, the MST60 format is introduced in addition to the still supported MST50 channel list format. The new MST60 format is based on the JSON file standard and enables the export/import of channel lists including all favorites/LCN lists.

The MST60 format is currently not supported in the PC program "Station Editor" and is only used to export/import program lists between TV devices (TX/TY devices only).

### Export Program List in File Manager



### Program List Format MST60 (JSON)

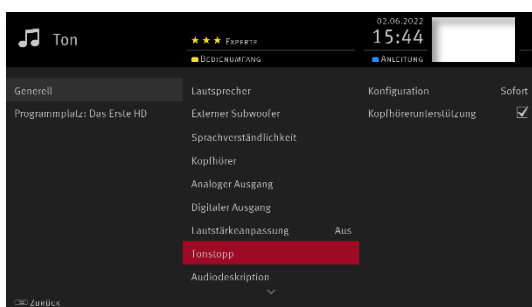


## SOUND STOP FUNCTION CONFIGURABLE FOR HEADPHONES

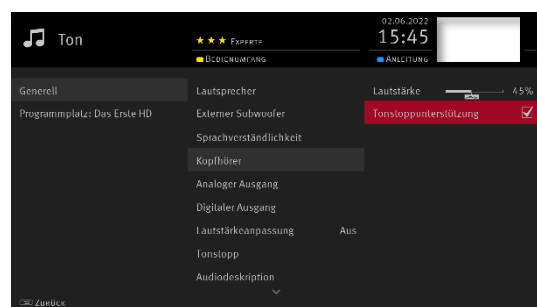
By activating this menu item, the sound stop function (mute) not only affects the speakers, but also the connected headphones.

To make this setting easier to find, it is made available in both the sound stop settings and the headphone settings.

### Setting option in the sound mute menu:



### Settings in Headphone menu:



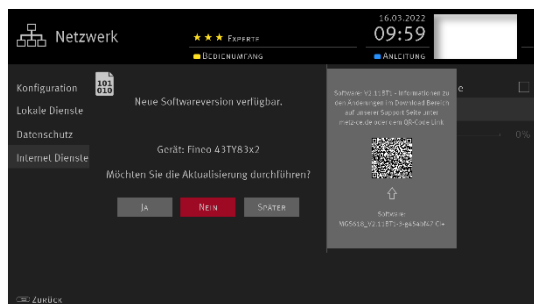
## QR-CODE LINK TO „SOFTWARE-CHANGELOG“

The “software changes” have also been visible in the download area on our website since April 2022 and can be selected for the respective product family via the following link:

<https://metz-ce.de/support/downloads/software-aenderungen#support-nav>

During the next software update, a QR code will be linked to this document so that the customer can conveniently access the information using a mobile device before the update.

### Dialog for Software Update



### Link to „Software Changelog“ as PDF



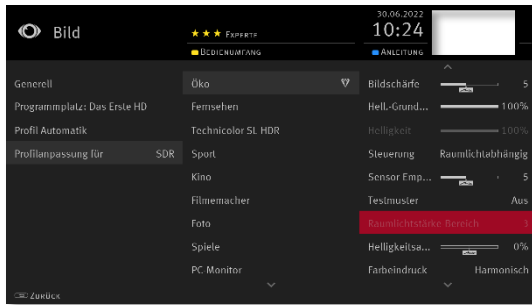
## INDIVIDUAL ADJUSTMENT OF IMAGE BRIGHTNESS TO DIFFERENT LIGHTING SITUATIONS

The impression and visibility of the television image should be the same in a dark room as in a room with daylight. To ensure this, the settings are adjusted for the different room lighting situations.

The settings for light output, gamma and black value are particularly important in dark room brightness and dark television scenes, as the high eye sensitivity makes image errors that arise during filmmaking visible.

Using “Brightness adjustment in the area” in the respective picture profile, the brightness should now be reduced during TV operation to such an extent that the interference is no longer visible. Alternatively, the setting can be done using a “test pattern” available in the profile. Further details are described in the help system (cursor on menu item and call up blue button).

### Brightness adjustment in profile settings



### Brightness adjustment on the test pattern/image

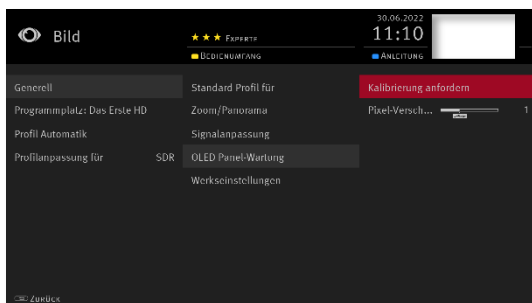


## OLED PANEL MAINTENANCE FUNCTIONS

After every 4 hours of operating time, an OLED device starts a so-called “RS compensation run” as soon as the device is put into standby mode. The “Request Calibration” function can shorten the time until the next calibration process. After activation, compensation is carried out immediately when switching to standby mode.

The “Pixel Shift” function can be used to set the behavior of the image shift. Settings 0 (off) to 3 (strong) are available. However, to extend the life of the display, it is strongly recommended to leave pixel shifting enabled. By shifting the image at fixed time intervals, the aging of the individual pixels is minimized.

### OLED Panel-Maintenance



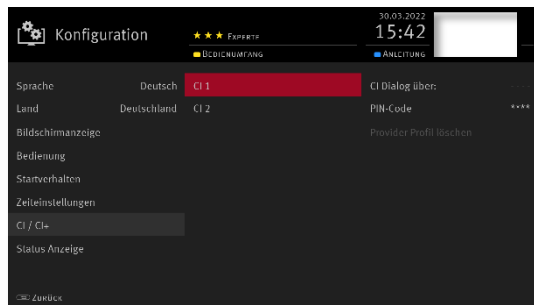
### Enabling „Request Calibrations“



## CI+ SETTINGS RELOCATED UNDER CONFIGURATION

Under CI/CI+, functionalities for the two possible CI slots are combined into CI modules. It is also possible to enter a smart card PIN under this menu item if a CI module with CI+ V1.3 recording function is in use. This makes CI+ standby recordings of programs protected by minors possible. PIN entry is only required at the time of playback.

### CI/CI+ in Configuration:



### Help text to PIN-Code:



## METZ REMOTE FOR IOS 2.8.1 WITH PLAYBACK POSSIBILITY OF LOCAL VIDEOS

With **MetzRemote** App 2.8.1 for iOS it is possible to play local videos (HD/UHD) on the TV renderer. The app can be installed from the Apple Store using the following QR code or link.



QR-Code Link to MetzRemote App in Apple Store

### Playback of Dolby Vision iOS Videos on TV



With this iOS update, it is also possible to playback local 4K Dolby Vision HDR videos from the iOS device on TV devices with Dolby Vision support.

On TV sets without Dolby Vision support, playback is in HLG.

Here you can find more information about HDR videos recorded with an iPhone or iPad.



#### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- Parental control menu revised
- SAT antenna configuration single/twin names introduced
- Help texts revised and retranslated
- EPG: Preview depth corrected in EPG Radio Mode
- Timeshift: Change from Timeshift to Live for DVB-T2 Internet channels improved
- CI+: CI functionality stabilized after software update
- Bluetooth: BlueZ 5.63 updated; AptX selectable
- MEMC optimized
- HDR impression "Balanced" optimized for OLED devices 48"
- HDMI-CEC: Improved interoperability with Telekom Magenta Box
- Tuner: Demodulator firmware update added (Patch16\_6\_0b17)
- Installation wizard: Added selection of sorting criteria for DVB-T and DVB-C
- TWIN tuner use optimized for DVB-C/S/T
- PVR: Recording function when using internal and external at the same time. HDD improved
- HDMI-CEC: Improved program switching to AV sources when CEC is active
- PVR: Stability improved for various programs e.g. DMAX
- OLED: Display optimized for service cases
- OLED: Calibration process optimized for 4-hour auto-off
- Audio: added new language translations for displaying the audio tracks, e.g. Chinese, Ukrainian
- DVB signal quality: RSSI display also in dBm and dBuV to assess the signal quality
- DVB radio recording and Playbar labeling improved
- Automatic switch-off time in the eco profile changed to 03:50 hours
- OLED plain text display: contrast and brightness optimized when switched off
- HDMI-CEC: Improved interoperability of Apple TV over a 10 meter long HDMI cable with fiber optic
- Service menu: Visibility of the menu items revised
- DVB radio: when the HbbTV radio app is open, the screen is not automatically switched off
- DLNA: Trick mode function optimized when streaming PVR recordings between Metz TV devices
- Switch-on behavior improved with "switch-off program location".
- Multiroom: Switch-on stability improved after multiroom function
- Plain text display: PVR/media playback display improved
- CEC-ARC: Improved interoperability with Pioneer VSX-922K regarding tone stop/volume change
- Switch-on program slot also possible with DVB-T with ILS (Internet Linked Service).
- HDMI/CEC: Stability of switching from an active CEC device to another source improved
- PVR: Timeshift function restored for program "HSE24 HD" via DVB-T2
- HDMI-CEC: Archive/Play button reliably starts the PVR media player even when the CEC is switched on
- EPG in "Dark" color scheme: Improved contrast in the calendar view for inactive days



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- Quick boot mode: System stability improved and MCU version updated to 19.17
- Display of the complete date with year in the information banner
- Display "All\_TV" in the timer dialog so that the display is possible regardless of the favorite lists
- Subtitle selection optimized for multiple subtitle tracks with the same languages

## MGS618 V2.10G (2022-04-05)

Changes compared to the version **V2.10E**:

### NEW FUNCTION:

- Support of Aurus OLED 48TY88 and 55TY88 with V2.10F ([Link to Metz-Blog](#) | [Link to product video](#))
- Support media server functionality for iOS App „MetzRemote“ V2.8
- F-function Web-App: The web app function enables access to Metz-CE YouTube playlists (**Overview Playlists, TV-Tutorials, Product Videos, Interviews, Imagevideos**)
- F function: access to the YouTube Metz TV tutorials has been added to the default configuration of the F1 functions

### BRIEF INTRODUCTION OF THE NEW FEATURES:

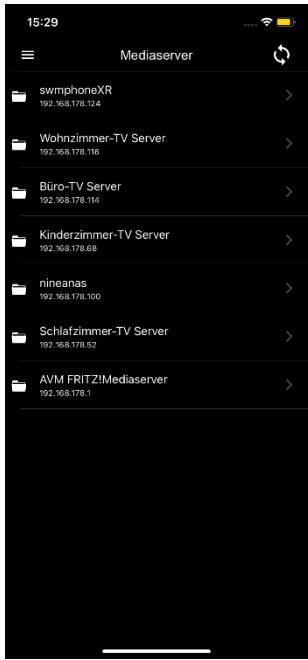
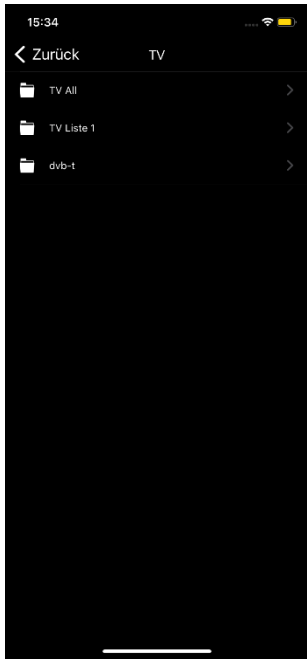
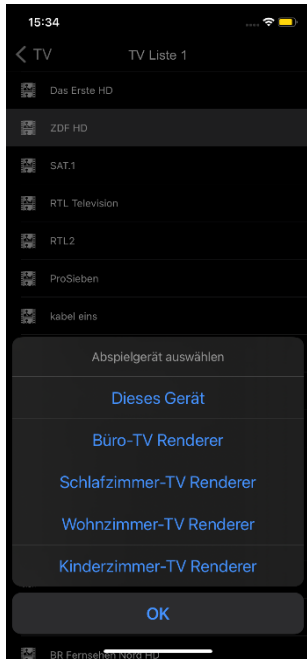
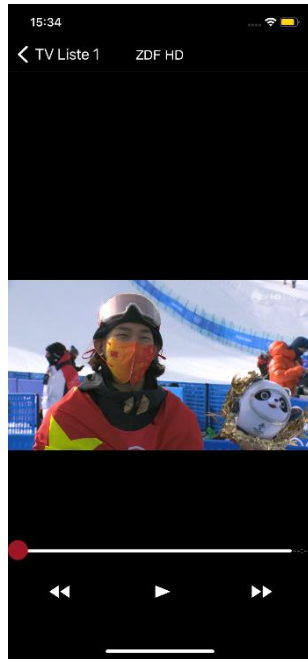
With the new software, local media from iOS devices can also be played on the TV renderer. In order to use the new media server function in the **MetzRemote** app for iOS, an update to version V2.8 is required. The app can be installed from the Apple Store using the following QR code or link.




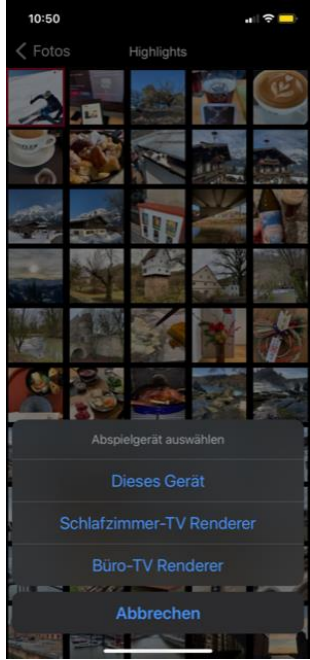

QR-Code Link to MetzRemote App in Apple Store



LIVE-TV STREAMING FROM METZ-TV TO IOS DEVICE (IPHONE, IPAD)

Selection TV Server	Selection Program List	Selection Program List and Playback Device	Playback of Live-TV Programm in App
			


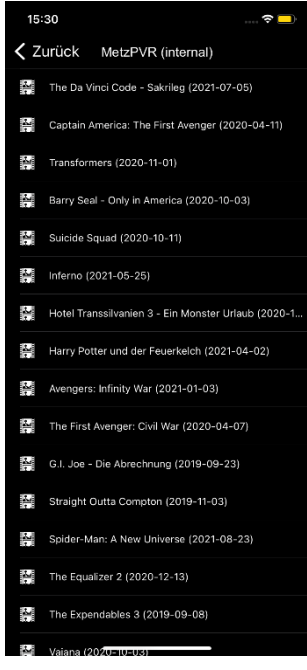
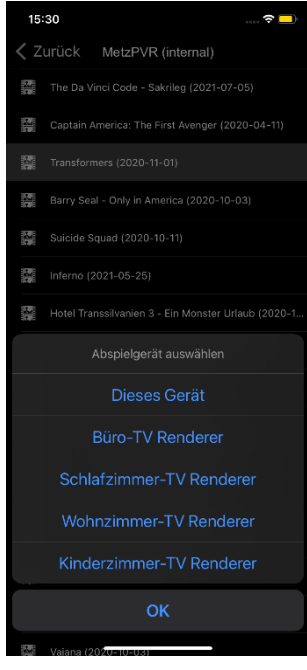

PLAYBACK OF LOCAL MEDIA FROM IOS DEVICE TO METZ TV (RENDERER)

Selection local media	Selection Playback device	Playback on Metz TV
		

Playback of local videos (including UHD/HDR) will come with the next MetzRemote app update.



## STREAMING FROM METZ-TV SERVER (Z.B. PVR) TO IOS DEVICE

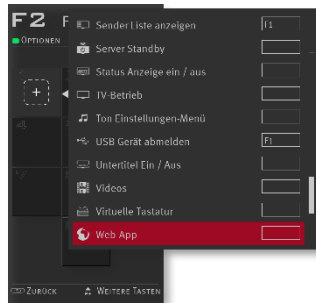
Selection MetzPVR	Selection of Recording	Selection Playback Device	Playback in MetzRemote App
			

## METZ YOUTUBE PLAYLISTEN AUF F-FUNKTION KONFIGURIEREN

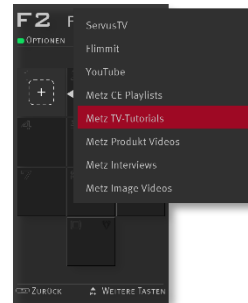
In the future, the following Metz-CE YouTube playlists can be configured on an F-tile for direct opening in the TV browser using the web app function: **Playlist Overview, TV-Tutorials, Product Videos, Interviews, Imagevideos.**

By default, the TV tutorials are placed on a function tile in group F1, even after a factory reset.

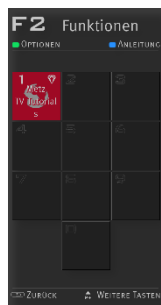
### Select Web-App function



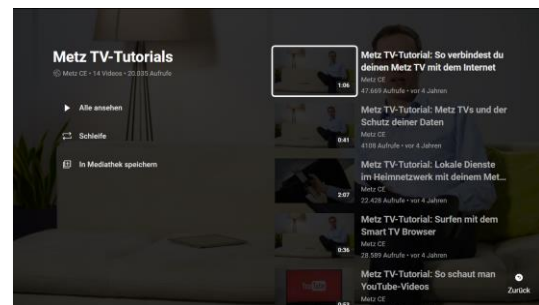
### e.g. select Metz TV-Tutorials



### Metz-TV Tutorials can be opened with F-tile



### Metz-TV-Tutorials opened in Metz-TV browser



## INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- Teletext function in “Timeshift Playback” for “permanent” timeshift configuration
- Media player: Subtitles can be deactivated via F-tile
- EPG: Support of the EPG function also for radio programs with AAC-LC codec
- Various UI icons optimized for the “Dark” color scheme in the installation wizard and in the media player
- CI+ Operator Profile: When deleting all favorite lists, an existing CI+ Operator Profile is also deleted
- HDMI/CEC: Support VoD Device “Leap-S2”
- HDMI/CEC: Support VoD Device “waipu”
- HDMI/CEC: P+/P- program switching in AV program list optimized if active CEC device is present
- CEC/ARC: Change in volume via ARC up to 100% ensured
- TV instructions: Structure and content of the help texts improved
- PVR: Standby recordings optimized for the internal HDD if additional external hard drives are available
- PVR: Playback of a CI+ recording with parental protection protection ensured

- PVR: Stability of playback of very long radio recordings improved
- Navigation in image profile settings optimized
- DLNA: Stability and error handling of the TV renderer improved
- YouTube: Interoperability and display of YouTube pages improved
- Switch-on behavior of the Calea TY64 backlight optimized
- DVB-C channel search optimized for cable provider glückauf.tv
- TWIN reception of DVB-T and DVB-S optimized

## MGS618 V2.10E (2021-12-20)

Changes compared to the version **V2.10D**:

### NEW FUNCTION:

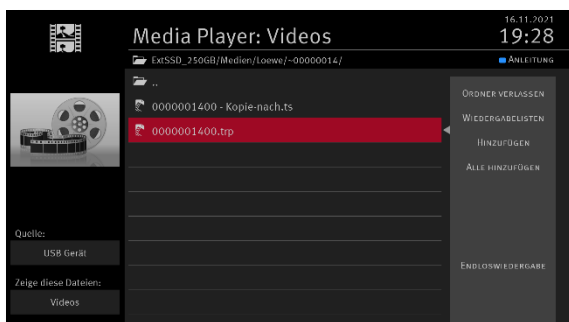
- **PVR**: Support for TRP files (Transport Stream, used for Loewe Video DR+ recordings) for playback in the media player and import into internal/external Metz PVR archive (MetzPVR)
- **TivuSat**: Support of the DVB-S installation channel search for the Italian provider TivuSat in Italy and LCN (Logical Channel Numbering) sorting of services in the favorite list “DVB-S Provider”

### BRIEF INTRODUCTION OF THE NEW FEATURES:

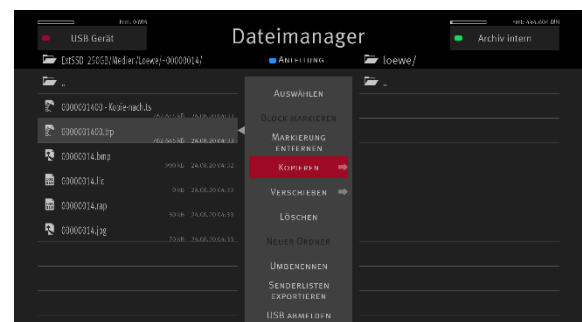
#### PVR: SUPPORT OF TRP FILES (LOEWE VIDEO DR+)

The TRP files in transport stream format can either be played directly in the media player or imported into an existing MetzPVR archive (internal or external) via the file manager. The import is started with “COPY” after selecting the source and target directories in the file manager.

#### TRP Playback in Mediaplayer



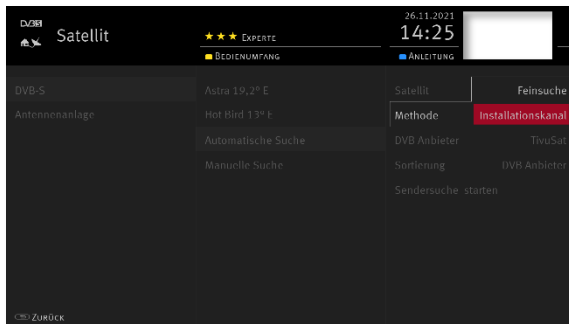
#### Import of TRP File in MetzPVR Archiv



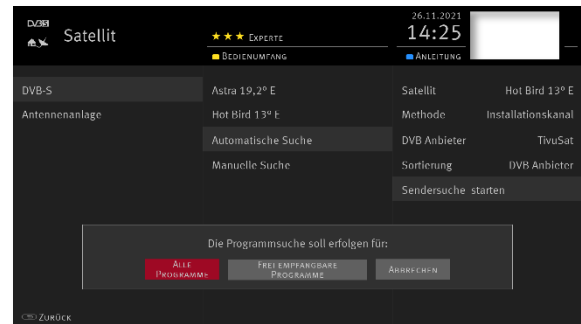
## TIVUSAT SEARCH IN INSTALLATION WIZARD FOR ITALY

For the Italian provider TivuSat, the installation channel search method is now available for DVB-S channel installation on the Eutelsat Hotbird 13° East satellite. After a short search time, the TivuSat programs are inserted into a separate favorites list (DVB-S provider) with the specified provider sorting (LCN). A copy in the order without gaps is also available as a basis for user changes.

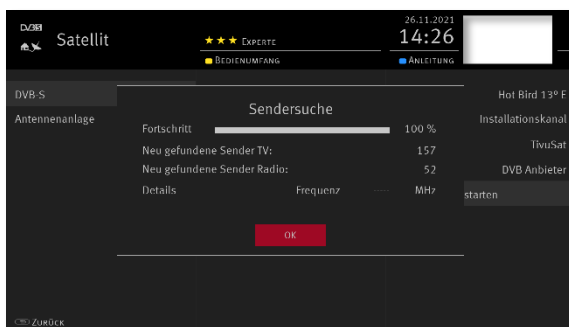
### Selection Search Method Home Channel



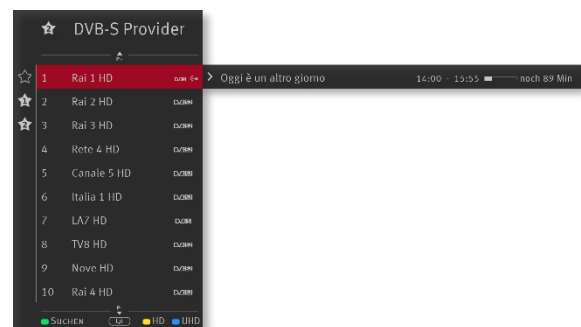
### Start search for all programmes



### Search Result



### DVB-S Provider Sorting for TivuSat



## INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- Picture Quality (PQ): New picture profile “Color Intensive” added for Taris 50TY84
- Tuneln Radio: Fixed sound problems with classical radio and various services
- AAC-LC Radio: AAC logo is displayed in the side information bar
- Time change: Prioritization of time search changed from Teletext to DVB; “Das Erste HD” often sends incorrect UTC in teletext after the half-yearly time change
- Automatic switching on with permanent on without warning message ensured
- Image menu “Profile adjustment for”: once selected, the current value is grayed out
- Help texts improved
- EPG grid view: Fixed display problem of arrows at left/right zoom level
- CEC: “NAD AV Receiver” no longer switches on and off cyclically during OLED calibration
- Bluetooth: Fixed rare audio dropouts with Metz BT headphones



- HDR: Technicolor menu texts corrected to “Technicolor SL-HDR”
- Bluetooth: Bluetooth tile is no longer inactive when LAN is selected or “no internet” is selected

## MGS618 V2.10D (2021-11-09)

Changes compared to the version **V2.05D**:

### NEW FUNCTION:

- Support for the new Taris 43/50 device family ([link to the Metz blog](#) | [link to the product video](#))
- Screen display color scheme configurable: standard, dark (night mode) and automatic
- Color scheme can also be selected in the installation wizard
- Overlay for program information can be configured
  - Fade-in duration 2, 4, 6 seconds or off
  - Info symbols at the bottom, side or off
  - HDMI video signal details on/off
- Volume bar configurable
- HDMI-CEC button forwarding on/off icon
- Image menu restructured regarding HDR modes
- Automatic image profile
  - Movie mode
  - New image profile filmmaker
  - Gaming mode, HDMI ALLM (Auto Low Latency Mode)
- HDMI VRR (Variable Refresh Rate), only for Topas OLED TY91x5
- Image adjuster menu with green button
  - The currently selected image profile is displayed
  - Automatic profile on/off
- HDR10+: For image profiles with “ambient light adaption” activated. Gamma” display of a “HDR10+ ADAPTIVE” logo
- Favorite lists Selection in a short channel table possible with cursor keys, display of all created lists
- Maxdome app available in the portal
- Display VRR in HDMI program info

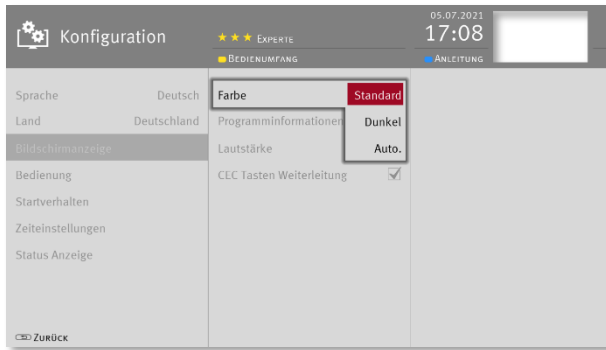


BRIEF INTRODUCTION OF THE NEW FEATURES:

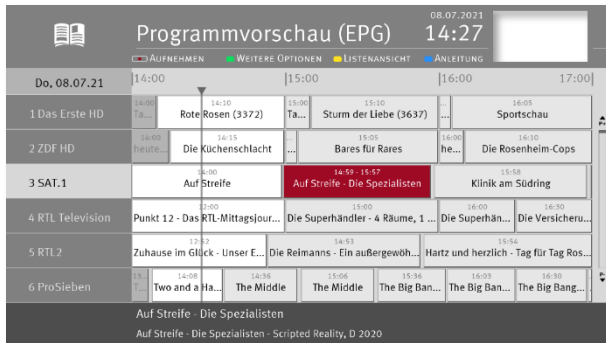
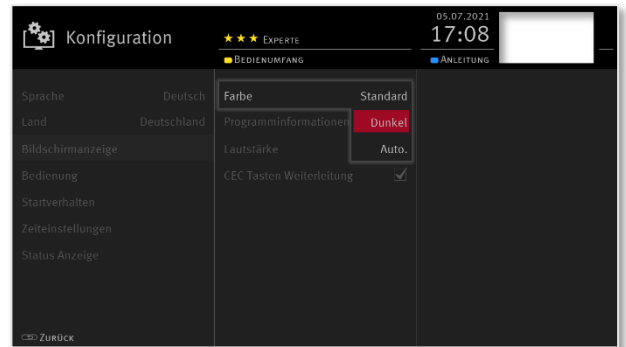
COLOR SCHEME OF ON SCREEN DISPLAY

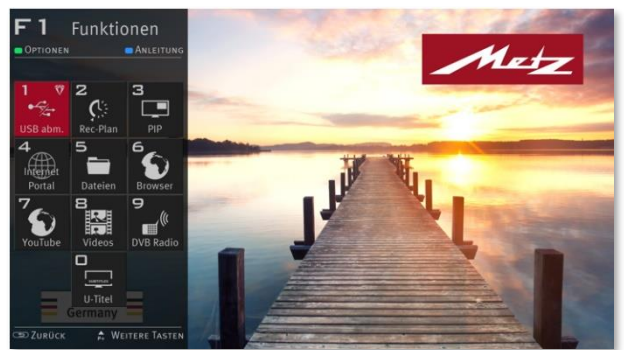
The color scheme of the user interface can now be configured in standard or dark. With the “Automatic” setting you select the color scheme automatically depending on the ambient light. “Standard” is selected for brighter ambient light. In dark rooms, “Dark” (night mode) proves to be beneficial for the eyes.

Color Scheme Standard



Color Scheme Dark (Night mode)





An overview also on our blog: „Dark Mode auf Metz-TVs: Mit Dunkelmodus die Augen schonen“

## VOLUME BAR AND PROGRAM INFORMATION CONFIGURABLE

### On screen display | Volume



### On screen display | Program information

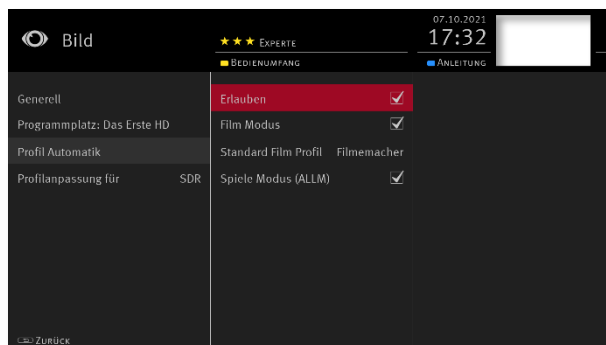


## IMAGE PROFILE AUTOMATIC AND FILMMAKER PROFILE („FILMMAKER MODE“)

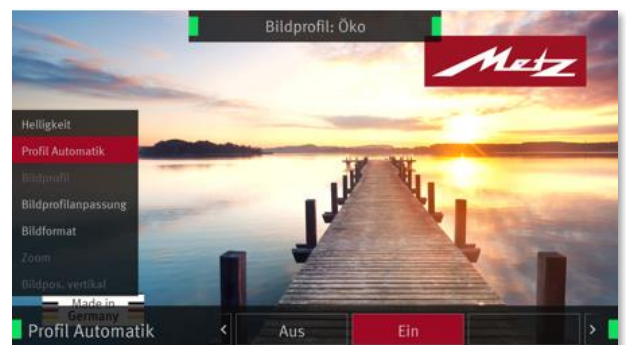
The so-called **Filmmaker** Mode is intended to allow the user to see a film exactly as the filmmaker imagined. To ensure this, all image-enhancing algorithms and processes are deactivated.

The **automatic** picture profile can be switched on and off using the green control menu. When automatic profile is switched on, manual image profile changes are deactivated. The automation can be configured in the image menu.

Picture | Automatic profile

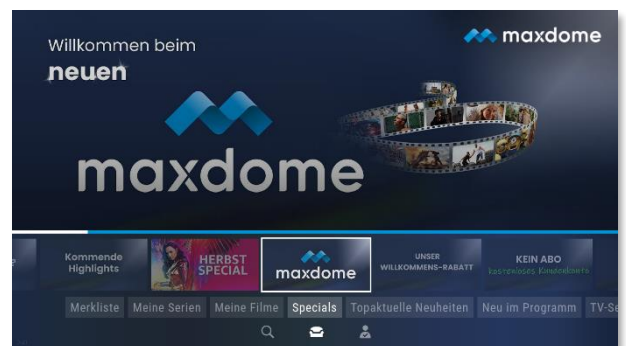
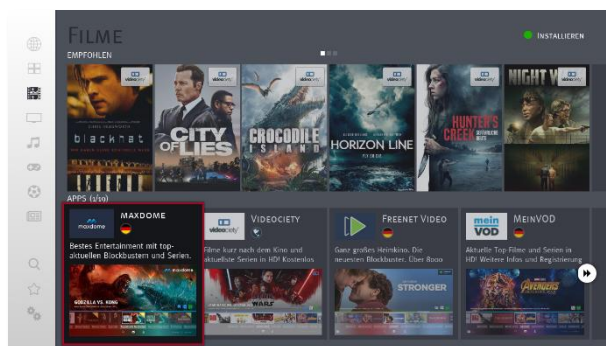


Menu „Green Key“



## MAXDOME APP IN PORTAL AVAILABLE

Best entertainment with the latest blockbusters and series. No subscription required, payment for individual films possible with PayPal, for example.



## INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- F tile: Web app list with YouTube can be accessed again
- Videociety / Maxdome: Playback of DRM-protected videos is possible again without any problems
- WOL (Wake on LAN) supported again for certain TV models with BT/WLAN module
- Fixed image/sound offset in HbbTV media library via TOSLINK / S/PDIF
- Closed start program slot can be reliably selected again with CI+ HD+/Kabelio CAM



- CI+: Timeshift function with HD+, e.g. RTL HD, Sat1.HD possible again (HD+ interoperability problem with various modules)
- Subtitles: Voice display and deactivation for media player playback possible again
- OLED: Optimization of picture profile settings
- EPG: Navigation in grid view optimized based on current time
- Bluetooth: Update BlueZ software stack to version 5.61
- HDD/PVR speed test optimized
- PVR: Last program location correctly determined when leaving the PVR archive
- EPG: Four-line texts are displayed completely in list view
- "Panorama" image format can be selected again in the green control menu
- Remote timer activation / connection possible again
- Bluetooth: occasional audio dropouts with various headphones no longer occur
- PVR CI+: FTA recordings also possible via CI+ CAM

## MGS618 V2.05D (2021-09-28)

Changes compared to the version **V2.03C**:

### NEW FUNCTION:

- Bluetooth: Support new hardware 620WL0914 with BlueZ Bluetooth Software Stack

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- Bluetooth: Firmware Melody 7.4\*2 updated to support Apple AirPods
- Bluetooth: Delay is saved permanently
- PIP: DVB-C resource conflict fixed
- PVR: Playback of accurate recordings possible in scanning mode
- PVR: End time of active recordings no longer changed due to editing
- PVR: Fixed issues with series timer
- PVR: Playback of radio recordings possible
- PVR: Preview image corrected at 10% jumps
- PVR: Reliable playback from the last position possible
- PVR: Recording archive can be opened using the F key
- EPG: EPG data for Hungarian channels (e.g. Duna HD) via Eutelsat 9°
- Unitymedia: "Metz Standard" sorting adapted for DVB-C Unitymedia
- Search: Sorting updated ("WDR old" programs)
- WLAN: Special characters for entering the password are supported
- Media player: Update covers for MP3 via DLNA
- Media player: Subtitles in SRT format are no longer displayed too small
- Picture Quality (PQ): Fixed image flickering in the upper right half of the image



- Subtitles: Readability improved
- TV no longer says “Please wait!” when switched off
- Parental controls removed for radio programs
- Backlight now starts Calea 49TY64 reliably
- “Cinch AV” and “Cinch Audio” have been repositioned in the signal source menu

## MGS618 V2.03C (2021-05-17)

Changes compared to the version **V2.03B**:

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- HDMI-CEC: Interoperability improved for Denon AV receiver X2400H
- HDMI-CEC: Interoperability improved for Apple TV & Apple TV 4k
- Subtitles: Brightness optimized for Topas 48” OLED
- PVR: Last playback position is correct even when using timeshift
- EPG: Time entry in GridView improved
- EPG/PVR: Timeshift playback is stopped when a future event is selected
- PVR: Timeshift function also possible for external hard drives
- Media player: Path information also displayed after playback from subfolder
- HbbTV: ServusTV app can be configured via WebApp list on F-tile



**MGS618 V2.03B (2021-04-13)**

Changes compared to the version **V2.02E2**:

**NEW FUNCTION:**

- Introducing HDR10+
- Play local media from **MetzRemote** App for Android on Metz TV  
Link to the **MetzRemote** app in the Android Playstore: : Link
- Image profiles: ambient light-dependent gamma now supports the following modes: off, light, medium, strong
- Privacy Policy updated to V2.2

**COMPATIBILITY MATRIX OF SUPPORTED HDR METHODS FOR CHASSIS 618**

			Dolby Vision	HDR10+	HDR10	HLG	Technicolor
Topas	65/55	TY91 OLED twin R	☑**	☑*	☑	☑	☑
Topas	48	TY91 OLED twin R	☑	☑*	☑	☑	☑
Alegra	49/43	TY87 UHD twin R	☑	☑*	☑	☑	☑
Alegra	49/43	TY86 UHD twin R	☑	☑*	☑	☑	☑
Fineo	55	TY82 OLED twin R	☑**	☑*	☑	☑	☑
Fineo	49/43	TY83 UHD twin R	☐	☑*	☑	☑	☑
Fineo	49/43	TY82/TY85 UHD twin R	☐	☑*	☑	☑	☑
Calea	49/43	TY64/TY62 UHD twin	☐	☐	☑	☑	☐
Cosmo	32	TZ38	☐	☐	☐	☐	☐
* via SW-Update to MGS618 V2.03B							
** with Dolby Vision only for TV sets with serial numbers greater 300.000							

Our press release from March 19, 2021 on the introduction of the HDR process:

- „Metz Classic unterstützt zukünftig alle HDR-Verfahren“

An overview of HDR processes can also be found on our blog:

- „Schöner fernsehen: Was bedeutet HDR, HDR10 und HLG?“
- „Dein Vorteil mit einem Metz 4K Fernseher: HDR in allen Varianten!“

**INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:**

- Media player: Sound format reliably supported when switching the soundtrack to AC3
- Media player: Fixed image glitches when rotating photos



- Radio: F functions for speakers/Bluetooth on/off possible
- EPG: Programs with an apostrophe in the title can be searched for
- HDMI/CEC: Telekom Magenta TV STB (Media Receiver 401 Type B) no longer switched off after the STB started the TV
- Teletext: certain search queries are possible reliably
- Fixed image glitches in RTL UHD
- HDMI: Improved interoperability with FireTV
- EPG: Radio programs are reliably sorted correctly in GridView
- PVR: Broadcasts can be reliably programmed as "Accurate".
- PVR: 10% jumps possible again during breaks
- PVR: Regional program switching possible reliably during PVR playback
- F function: Switching to radio program via F tile possible in LCN list

## MGS618 V2.02E2 (2021-02-23)

Changes compared to the version **V2.01G**:

### NEW FUNCTION:

- Browser: long press on BACK has the function of "history back" in the browser

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- EPG data from BR3 North/South via DVB-T2 is now displayed correctly
- HDMI CEC ARC: Improvements in interoperability
- In rare cases, OSD displays no longer stop
- F-Key Shortcut on HDMI reliably switches to the selected HDMI location
- PVR: Playback of DVB-T2 recordings no longer jerks in rare cases
- EPG: Fixed image glitches caused by EPG background search
- CI+ OP: Fransat Operator Profile installation optimized
- Improved Bluetooth interoperability with third-party headphones
- Multiroom TV function improved
- Switching process with "last program position" between favorite lists improved

## MGS618 V2.01G (2020-12-15)

Changes compared to the version **V2.00C**:

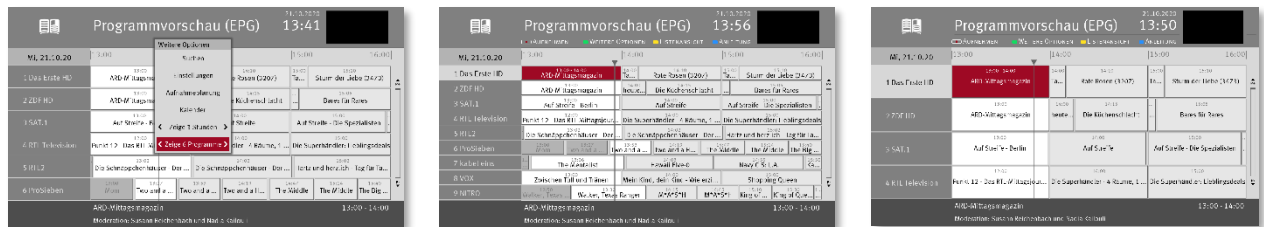
### NEW FUNCTION:

- EPG: you can easily switch between grid and list view using the yellow button
- EPG: under “More options” in the grid view, the number of programs displayed can be freely configured between 4 and 9

### BRIEF INTRODUCTION OF THE NEW FEATURES:

#### EPG (GRIDVIEW) WITH FREELY CONFIGURABLE NUMBER OF PROGRAMS

With this software version we are introducing another configuration option for the graphical EPG view: between 4 and 9 programs can be freely defined.



An overview on our blog: „Reine Ansichtssache: Das ist der neue GridView des EPG“

### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- Multiroom: recording start/stop function optimized
- CEC/ARC: Improvements in interoperability with external devices
- EPG: linked events on DVB-T2 (BR North/South) are displayed reliably
- Reference brightness in the Eco profile increased
- Unicable: SCR (Satellite Channel Router) frequency information corrected for the Unicable Inverto setting
- Switch-on behavior of the backlight on Calea has been optimized for the “Quick Start” switch-on configuration
- The software update process has been optimized for the “Standby” switch-on configuration
- Image Viewer: Color display of rotated images optimized

## MGS618 V2.00C (2020-11-10)

Changes compared to the version **V2.00B**:

### NEW FUNCTION:

- Favorites list for Sky added to the initialization list for DVB-S Astra



#### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- HDMI-CEC interoperability improved
- DVB-T2: LCN sorting optimized for all reception areas in Italy
- Image brightness optimized for “SES UHD Demo Channel” and “Sky UHD”.
- EPG: Sorting of programs with the same start time in grid view improved
- PVR: Storage of the last playback position revised
- HDMI: Color display revised with Quickline TV box
- PVR archive can be selected via the function overview

#### MGS618 V2.00B (2020-09-21)

Changes compared to the version **V1.11B**:

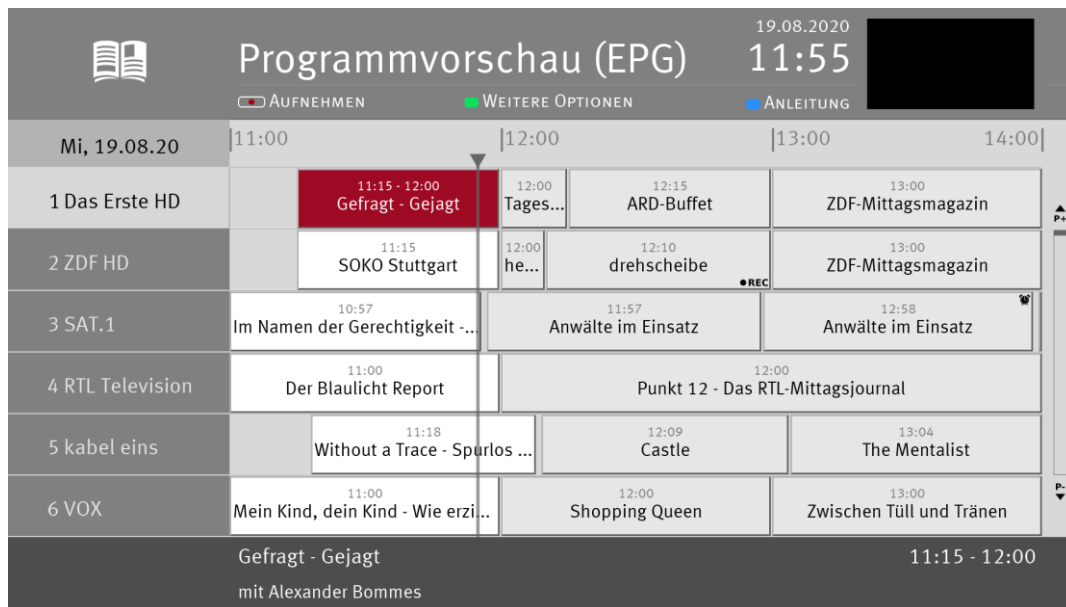
#### NEW FUNCTION:

- New EPG grid view (GridView) introduced in addition to the existing list view
- Support Alegra TV sets
- Configure the power-on volume under „Configuration | Start behavior“
- Overscan SD/HD configuration option under „Picture | General | Zoom/Panorama“

## BRIEF INTRODUCTION OF THE NEW FEATURES:

### NEW EPG GRID VIEW AVAILABLE BESIDES EXISTING LIST VIEW

With this new version, in addition to the already familiar list view, we support the new grid view in the EPG with a two-dimensional graphical representation of the events:



Channel	11:00	12:00	13:00	14:00
1 Das Erste HD	11:15 - 12:00 Gefragt - Gejagt	12:00 Tages...	12:15 ARD-Buffer	13:00 ZDF-Mittagsmagazin
2 ZDF HD	11:15 SOKO Stuttgart	12:00 he...	12:10 drehscheibe	13:00 ZDF-Mittagsmagazin
3 SAT.1	10:57 Im Namen der Gerechtigkeit ...	11:57 Anwälte im Einsatz	12:58 Anwälte im Einsatz	
4 RTL Television	11:00 Der Blaulicht Report	12:00 Punkt 12 - Das RTL-Mittagsjournal		
5 kabel eins	11:18 Without a Trace - Spurlos ...	12:09 Castle	13:04 The Mentalist	
6 VOX	11:00 Mein Kind, dein Kind - Wie erzi...	12:00 Shopping Queen	13:00 Zwischen Tüll und Tränen	

In summary, the following information about this new functionality:

- The default view of the EPG display can be configured under:  
**Menu | Recordings/EPG | EPG settings | View**
- The automatic enlargement of selected events in the grid view can be switched on/off under:  
**Menu | Recordings/EPG | EPG settings | Autom. extension**
- In the EPG under „Options“ in the grid view:
  - You can temporarily switch between views
  - The zoom level can be changed between 2 and 9 hours
  - A calendar can be opened for navigation
  - The previous text-based search can be used (the search results are presented in the list view)
- You can jump to programs or set the time filter by entering numbers
- You can use the drive keys << and >> to jump to the current and last event for the selected program
- With the cursor key < or > pressed, horizontal navigation takes place with the selected zoom level

An overview to EPG Grid View on our blog: „Reine Ansichtssache: Das ist der neue GridView des EPG“

## INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- Improved interoperability for HDMI-CEC / ARC



- Image interference with DVB-S fixed
- Satellite reception properties improved for Unicable/JESS
- Internet radio can be started via F-tile, even if the PIP window is open
- Dolby logos updated
- Support for two “SMIT Viaccess Orca Legacy” CAMs
- Clearing series timers restored
- Internet function fixed in quick start mode
- HDR detection via HDMI improved

## MGS618 V1.11B (2020-07-07)

Changes compared to the version **V1.10A**:

### NEW FUNCTION:

- “**Technicolor HDR**” image profile implemented (SDR-HDR conversion)
- Bluetooth function with two headphones implemented for BT Melody software
- F-key function added: Bluetooth can be switched on/off
- F-key function added: Reminders can be selected
- Start program location freely configurable

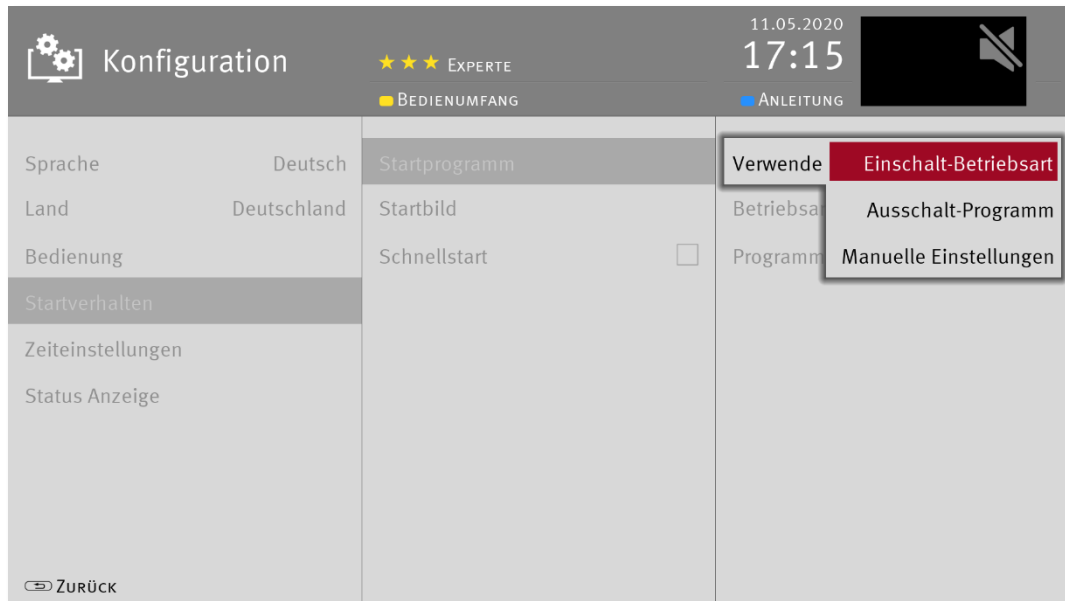
### BRIEF INTRODUCTION OF THE NEW FEATURES:

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## CONFIGURATION OF STARTUP PROGRAM

In the future, the switch-on program location can be defined as follows:

- **Startup mode of operation:**  
Due to backwards compatibility, we still offer the option of switching on with the first available program in the last selected favorites list of the selected operating mode.
- **Switch off program:**  
The last program selected in standby before switching off will be selected when switching on.
- **Manual settings:**  
From the various operating modes and favorite lists, a specific program can be defined as the switch-on program.



#### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- PVR: last playback position is reliably saved
- Currently Image interference with DVB reception has been eliminated
- Improvements to the HDMI-CEC function (e.g. with Yamaha Receiver)
- YouTube 4K videos can be played again in UHD resolution
- USB PVR detection accelerated after system start and catalog display revised (no more grayed out recordings)
- Picture dropouts (short blanking) eliminated on the channel "Canal Sur Andalucia".
- Switch-on behavior of the backlight on Calea optimized (e.g. in standby rec. mode)
- CI decryption ensured with simultaneous FTA recording
- Recording of ORF channels ensured by CI module WiCAM

#### MGS618 V1.10A (2020-03-31)

- Changes compared to the version **V1.09A**:

#### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- Calibration optimized for OLED devices
- Intermittent image blockages (still image) eliminated
- Currently Image interference with encrypted channels (e.g. ATV) eliminated
- Image interference for "Seamless Video Codecs" eliminated
- Child lock function revised
- Fixed incorrect PVR recordings with "untrusted signature".



- Bluetooth function revised (temporarily no sound via Bluetooth)
- CI assignment function optimized for private cable providers
- Channel sorting for the search updated (regional programs combined in blocks)
- Improved interoperability with various HDMI players (e.g. Fantec, FireTV)
- Fixed recording issues with CI+ CAMs
- DVB scanning expanded to new HEVC UHD signaling
- Interoperability CI+ operator profiles improved for Fransat CAM
- Added UTF-8/ISO8859-15 text encoding in EPG Now&Next Info

### MGS618 V1.09A (2020-01-14)

Changes compared to the version **V1.08E**:

#### NEW FUNCTION:

- Start screen (Metz logo, Metz full screen or custom image configurable)
- Audio description (AD) soundtrack selection configurable as default soundtrack

#### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- Currently Disturbances that occurred in timeshift and recording operations have been eliminated
- PVR: Last playback position during recordings is reliably saved
- Child lock function revised
- Bluetooth function optimized (e.g. for Pure Jongo BT speakers)
- Standby behavior optimized for the cable provider Quickline
- EPG search optimized for various cable networks in standby
- HDMI/CEC function optimized for FireTV and AppleTV
- Audio track switching in the VoD app Videociety
- Image quality improved (HDR10/HLG)

### MGS618 V1.08E (2019-10-15)

Changes compared to the version **V1.03G**:

#### NEW FUNCTION:

- HDR10/HLG for Micos
- Wake On WLAN (WOW) for Fineo/Topas
- Sky HDMI Device is integrated into VoD tile

#### INTEROPERABILITY IMPROVEMENTS AND BUG FIXES:

- Functionality of the CI slots improved
- EPG background search improved



- Installation of web apps (YouTube) via the F key restored
- Videocity function available again
- Search optimized with installation channel for DVB-C
- Image quality improvements (4k, HDR10, HLG)
- Audio quality improvements
- Bluetooth update to Software Stack Melody 5.8
- Picture profile settings optimized (eco and television introduced)
- Improved media playback stability in YouTube
- CI+ operator profiles optimized for Fransat
- Currently Fixed jerking of DVB-T2 programs in Bavaria
- Installation with Home Channel optimized for DVB-C in Switzerland
- OLED compensation optimized
- HDMI-CEC control optimized
- Favorites list management improved
- System stability increased
- Teletext subtitle control via F-tile optimized
- Improved interoperability of PVR recordings between chassis 616 and 618

## TV FUNCTIONS EXPLAINED ON OUR METZ BLOG (ONLY IN GERMAN)

On our blog you can find out about news and interesting topics related to TV: <https://blog.metz-ce.de>



**Klare Sprache auf Metz TV: Neue Tonspur von ARD und ZDF für bessere Sprachverständlichkeit**



**Alten Fernseher abgeben: Wie lösche ich Daten auf dem Metz TV?**



**Stromsparen beim Fernsehen: Einfach abschalten!**





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**Metz TV Öko-Modus: So könnt ihr beim Fernsehen Energie sparen**



**Metz TV: Nachhaltigkeit ist unser Programm**



**Alten TV aufrüsten: Per Streaming-Stick Videodienste und Mediatheken nutzen**



**Hier herunterladen: Bedienungsanleitungen für Metz Fernseher**



**Ressourcen schonen und Energie sparen – mit einem Metz Fernseher**



**Dark Mode auf Metz TVs: Mit Dunkelmodus die Augen schonen**



**Dein Vorteil mit einem Metz 4K Fernseher: HDR in allen Varianten!**





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**Reine Ansichtssache: Das ist der neue GridView des EPG**



**Schöner fernsehen: Was bedeutet HDR, HDR10 und HLG?**



**Das bringt der Nachtmodus: Mit weniger Blaulicht fernsehen – und besser schlafen**



## TV-TUTORIALS ON OUR YOUTUBE CHANNEL

On our YouTube channel <https://www.youtube.com/c/MetzCE>, in addition to product videos, image videos and interviews, there are many TV tutorials on the functions of our TV sets:



**HbbTV – Vorstellung und Tipps für die optimale Nutzung**



**Die neue Tonspur „Klare Sprache“ optimal nutzen**



**So verbindest du deinen Metz TV mit dem Internet**



**Metz TVs und der Schutz deiner Daten**



**Lokale Dienste im Heimnetzwerk mit deinem Metz TV**



**Surfen mit dem Smart TV Browser**



**So schaut man YouTube Videos**





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**So funktioniert Fernsehen mit dem Smart TV**



**Kabelnetz finden mit Sendersuchlauf**



**Innovative Aufnahmefunktionen dank Twin-Tuner**



**So schaust du zeitversetzt fernsehen mit Timeshift**



**So wird der TV kindersicher**



**Noch komfortabler Fernsehen mit Funktionstasten**



**Was unsere TV-Bedienung so komfortabel macht**





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Fernsehen per WLAN auf anderen Geräten schauen



Kinderleicht aufnehmen mit einem Metz TV





## MOBILE APPS AND WEB-SERVICES

The “MetzRemote” app can be installed in the respective app stores and the “Metz Remote Timer” web application can be opened in the browser using the following QR codes.

### „METZ REMOTE“ APP FOR APPLE IOS



#### QR-code link to „Metz Remote“ App in Apple Store

MetzRemote brings Metz ease of use to your smartphone/tablet with the following functions: remote control, EPG, internet timer, channel editor, wake on LAN and media server.

### „METZ REMOTE“ APP FOR GOOGLE ANDROID



#### QR-code link to „Metz Remote“ App in Google Play Store

MetzRemote brings Metz ease of use to your smartphone/tablet with the following functions: remote control, EPG, internet timer, channel editor, wake on LAN and media server.

### „METZ REMOTE TIMER“ WEB-APPLICATION



#### QR-code link to „Internet Timer“ Web-App

The web application allows you to program PVR recordings on your TV. The recording timers of the web application are synchronized with the respective TV device at two possible times.



## INFORMATION ON OUR HOME PAGE

Further information about Metz Classic products can be accessed on our homepage using the following QR codes.

### ACTIVATION USB-RECORDING



#### QR-code link to activation USB recording

On this page, an activation code to activate the USB recording function is determined by entering a request key from the TV set.

### FAQS



#### QR-code link to our FAQs

### TECHNICAL GLOSSARY



#### QR-code link to our technical glossary

### PRODUCT FINDER



#### QR-code link to our product finder

All our products at a glance. The product search is made easier by filtering options for features such as resolution, display technology, screen diagonal and PVR equipment.



## ABBREVIATIONS

When documenting the software changes, technical terms are used, among other things, which are briefly described in the following list of abbreviations.

### A

AAC-LC	Advanced Audio Coding (Low Complexity), Audio coding method
AC-3	Dolby Digital, Multi-channel sound system from Dolby
Accurate Recording	Broadcast-triggered recording function
AD	Audio Description
AIF	Audio Interchange Format
AirPods	Bluetooth headphones from Apple
ALLM	Auto Low Latency Mode of HDMI
App	Application software, mobile app in the field of mobile operating systems
ARC	Audio Return Channel of HDMI
AVC	Advanced Video Coding, Standard for video compression

### B

Bluetooth	Radio standard for transmitting data, audio and video
BlueZ	Official implementation of the Bluetooth software stack for Linux
BT	Bluetooth

### C

CAM	Conditional Access Module
CEC	Consumer Electronics Control
CI	Common Interface / Module
CI+	Common Interface Plus
CI+ OP (Operator Profile)	CI+ Operator Profile, System for transmitter installation via CI module
Cinch AV	Coaxial connector
CMO	Crystal Motion OLED

### D

DLNA	Digital Living Network Alliance
DRM	Digital Rights Management System
DVB	Digital Video Broadcasting
DVB-C	Digital cable television
DVB-S / DVB-S2	Digital satellite television
DVB-T / DVB-T2	Digital terrestrial television

### E

EIT	Event Information Table
EPG	Electronic Program Guide, Electronic Program Guide
ErP2023	Energy Efficiency (EcoDesign), ErP Directive 2023 (Energy-related Products)

### F

Fire TV	Streamin Media System from Amazon
F-Kachel	Functional tile in Metz UI
FLAC	Free Lossless Audio Codec
Foxxum	Internet Portal Provider
FTA	Free To Air, unencrypted program content

### G

GPL	GNU General Public License
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GridView                      Grid view in EPG

<b>H</b>	
HbbTV	Hybrid broadcast broadband Television
HD+	Provider of digital encrypted TV
HD	High Definition
HDD	Hard Disk Drive
HDMI	High Definition Multimedia Interface
HDR	High Dynamic Range
HDR10+	HDR processes from Panasonic, Samsung and 20th Century Fox
HEVC	High Efficiency Video Coding, Video encoding method
HLG	Hybrid Log Gamma, HDR process
H264	MPEG-4 AVC, Video encoding method
<b>I</b>	
ILS	DVB-T2 Internet Linked Services (Internet services linked via DVB)
iOS	Apple's operating system for mobile devices such as iPhone, iPad, iPod
<b>J</b>	
JESS	Method for the distribution of satellite television signals in SAT systems according to DIN50607
JSON	JavaScript Object Notation, data exchange format
<b>L</b>	
LAN	Local Area Network
LCN	Logical Channel Sorting; Program sorting is specified by the provider
<b>M</b>	
Maxdome	VoD Provider
MCU	Microcontroller
Melody	Embedded Firmware for Bluetooth Modul BC127
MEMC	Motion Estimation Motion Compensation (Frame interpolation technology)
MetzPVR	Digital recording system from Metz
MP3	Audio coding method
MP4	Video container format for MPEG-4 video format
MPEG-4	MPEG standard for audio/video data compression
MST50, MST60	Metz file format for importing/exporting program lists
<b>N</b>	
NDR	„Nord Deutscher Rundfunk“, Provider
<b>O</b>	
OLED	Organic Light Emitting Diode (Panel technology)
OSD	On Screen Display, Menu displays on the TV screen
OTA	Over The Air (Software update procedure via Internet)
<b>P</b>	
PIP	Picture in Picture function
Playready	Microsoft copy protection system (DRM system)
PQ	Picture Quality
PTP	Picture Transfer Protocol
PVR	Private Video Recorder, Digital recording system
<b>Q</b>	



QR-Code Two-dimensional code (quick response)

## R

RSSI Received Signal Strength Indication

## S

S/PDIF Sony/Philips Digital Interface  
SCR Satellite Channel Router  
SD Standard Definition  
SDR Standard Dynamic Range  
SMIT Manufacturer of CI modules  
SRT SubRip subtitle format (simple texts)  
SSU System Software Update

## T

Technicolor SL-HDR Single Layer HDR-process of Technicolor  
TivuSat Satellite provider in Italy  
TOSLINK TOSHIBA-LINK, fiber optic connection system from Toshiba  
TRP Transport Stream Format  
TS Transport Stream Format  
TuneIn Internet radio provider  
TWIN (Empfang) Two equivalent receiving parts (tuner/demodulator) for DVB-S/C/T

## U

UHD Ultra High Definition  
Unicable Method for the distribution of satellite television signals in SAT systems according to DIN50494  
UPnP Universal Plug and Play, used to control devices via IP-based network  
USB Universal Serial Bus  
UTC Universal Time Coordinated

## V

Videocify VoD Provider  
VoD Video on Demand  
VRR Variable Refresh Rate for HDMI

## W

Web-App List of Web Applications on Metz Server; an application program that runs or is displayed in the user's web browser  
Wi-Fi Wi-Fi Alliance company consortium for the certification of WLAN devices  
WLAN Wireless Local Area Network  
WOL Wake on LAN  
WPS Wi-Fi Protected Setup

## Y

YouTube Internet platform for video content



## SMART-TV PRIVACY POLICY

The current data protection declaration for Smart TV can be accessed using the following QR code.



Smart TV Privacy Policy

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