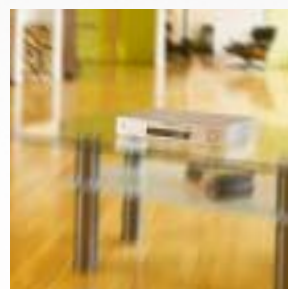


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MAIN CATALOG 2004



LCD-TV ■ HOME CINEMA ■ DVD ■ SAT ■ HIFI ■ MAGIC FIDELITY

How does technology have to be, in order for you to enjoy being entertained? Perfect, easy to operate and of course, fit for the future. This is exactly the definition of the qualities that the innovative products from Grundig want to offer you.

YOU NEED PERFECTION IF YOU WANT ENTERTAINMENT

Because only when these three fundamental characteristics are fulfilled is the result a unified and unique quality of experience.

To put it more simply: only then can consumer technology really be fun. Set it up and enjoy. Regardless of whether you are enjoying unmatched picture brilliance or Surround Sound that has really earned the predicate cinema quality. Regardless of whether you are enjoying the sound of a HiFi system that gives you the feeling of hearing the violinist or guitar player live.

When all of this has been achieved, and on top of it all is child's play to operate, and you even have fun doing it, only then have all of the criteria been fulfilled that we mean when we say:

Grundig. Just to entertain you.



**INNOVATIVE CONCEPTS
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**TELEVISIONS
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**TV RECEIVERS DIGITAL
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**DVD PLAYERS / VIDEO RECORDERS
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**HOME CINEMA / HIFI
PAGES 42 – 55**



**AUDIO PORTABLES
PAGES 56 – 79**





Xentia 26

NO DOUBT, THE FUTURE IS DIGITAL

And has started already a few time ago. Digital technology made by Grundig opens up fascinating possibilities in all fields – because of that, it is a standard condition of our products. For more natural pictures, for higher plasticity, for more comfort to meet all your wishes and coming soon, also with connection to a network of the latest medias. No doubt, the digital future with much more programme varieties, with more information than before and adventure will permit each viewer to have his own individual programme.

THE NEW PLASMA- AND LCD-TV GENERATION. MORE PERFECT PICTURES THAN EVER BEFORE.

Brilliant colours also by intense ambient light, impressive sharpness, naturally fluent movements of the picture motives, flicker-free and with unmatched sharpness also by rapid pan shots. This all achieves an accuracy of picture, as you never experienced before by the best classical picture tubes. It is the perfect implemation between illuminating power, swiftness and contrast.



Tharus 110



Tharus 30



Tharus 26



Tharus 51

digital

Grundig Cinio and Cinemo are the names of the systems turning your existing 16:9 TV into a cinema-centre. But, of course, only under the pre-condition it reaches the same brilliant picture quality as Grundig TVs. If so: you simply need an A/V receiver Cinio AVR 5200 DD or one of the three DVD receivers out of the Cinemo family to get it started. In these devices you will experience unmatched

CINIO AND CINEMO – TURN EACH 16:9 TV INTO A BIG CINEMA

powerful cinema sound due to their decoders for Dolby® Digital 5.1, DTS and ProLogic II and a powerful amplifier to control the six equipped loudspeakers. If you also are provided with a perfect DVD player like the Cinio GDP 5240 (a DVD player is already integrated in the DVD receiver Cinemo), which harmonise excellent in their optic and technology with the system – nothing can stop your target to have unresisted, extraordinary and exciting Home Cinema entertainment.



Grandiose sound in spite of small dimensions. Magic Fidelity – the „magic“ sound concept made by GRUNDIG. Enjoy saturated room music from the radio or CD in an unimagined dynamic and with an amazing sound performance you only would expect from large, complex loudspeaker systems. A special configuration of the loudspeakers for optimal capacity and excellent sound makes it possible. A bass loudspeaker and two middle- resp. treble loudspeakers, each in an own housing and with an own amplifier, are built-in the micro device Ovation. The compactness of Magic Fidelity enables the extravagant design of the Ovation and supplies it furthermore with all in all 20 watt music output, a convincing sound, meeting all needs and wishes of this eye-catcher in every respects.

MAGIC FIDELITY – THE NOVEL SOUND CONCEPT FOR A FASCINATING WORLD OF SOUND

The Magic Fidelity sound system supplies also the Grundig Plasma- and LCD-TV of the Tharus family with marvellous sound. The Magic Fidelity is built-in the attractive, tubular sound unit that marks the unique design of the Tharus series. Experience TV watching in an exciting and completely new way: brilliant, plastically pictures supported by powerful sound that has never been reached before – a novelty on the market.





Each person sets different expectations into his „own personal“ TV. To meet all personal wishes and needs, we developed a multiplicity of TV models in miscellaneous designs and

TELEVISIONS

technologies. You are able to choose between super-flat LCD- and Plasma-TVs with brilliant, plastically as well as TV devices in different picture screen sizes, for example, in classical 4:3 format or – as a basis for Home Cinema-Systems – in wide-screen format 16:9. Our varied design line will definitely supply you with “your personal” TV, meeting all your requirements. As usual, all our devices are user-friendly and equipped with many comfort functions and optimal prepared for further periphery components you wish to add. See for yourself!



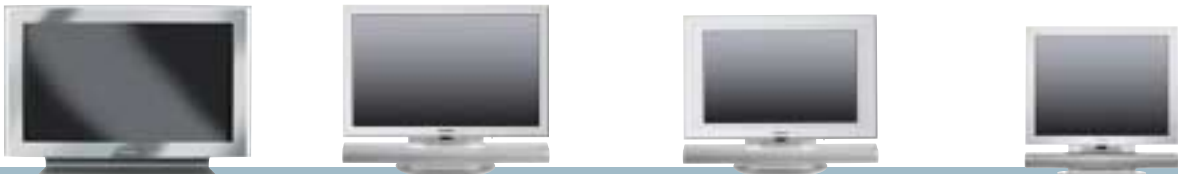
OVERVIEW GRUNDIG TVs

PLASMA



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Tharus 110
PW 110-9410 TOP
106/106* cm – wide screen 16:9

LCD



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76/76* cm – wide screen 16:9

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76/76* cm – wide screen 16:9

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51/51* cm

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43/43* cm – wide screen 16:9

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Amira 45
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RE-PROJECTION



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RPW 102-6410/8 TOP
102/102* cm – wide screen 16:9

WIDE-SCREEN FORMAT 16:9



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Xedance 82 Flat
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82/76* cm

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Cinaro 82 Flat
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FORMAT 4:3



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Xedance 72 Flat
MF 72-3310/7 TOP
72/68* cm

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Cinaro 72 Flat
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MF 72-2140/7 TOP
72/68* cm



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Sedance 70
ST 70-2410/7 TOP
70/66* cm

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Sedance 70
ST 70-2010 TOP
70/66* cm

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Sedance 70
ST 70-2405/5 TOP
70/66* cm

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Sedance 70
ST 70-2500 TOP
70/66* cm



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Sedance 55
ST 55-2500 TOP
55/51* cm

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Elegance 55 Flat
MF 55-2501 TOP
55/51* cm

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Davio 55
T 55-4201 TOP
55/51* cm

Page 33
Davio 51
T 51-4201 TOP
51/48* cm

Page 33
Davio 37
P 37-4201 TOP
37/34* cm

* Screen diagonal

Wide-screen Plasma- resp. LCD-TVs. An adornment for your living room and a catch for your eyes. In this way you will experience TV watching in a new way. With the wide-screen format 16:9 and large

FASCINATION THROUGH NEW DIMENSIONS

screen diagonals you can experience real cinema flair with pin sharp pictures, radiant colours, surpassing brightness and high plasticity.

Let yourself be inspired from new dimensions and the exclusive, aesthetical forms of these flat-screen TVs.



Fine Arts LCD-Vision 76 LCDW 76-8410 TOP

A design LCD-TV in the exclusive Fine Arts look with a contrast filter pane "Magic Mirror" made of double-sided anti-reflective coated glass and mirror frame. 30" (76 cm) PlanaLux Active Matrix TFT-LC display in the 16:9 wide-screen format. Bright (500 cd/m²) and high in contrast (500:1) picture for TV, video and PC. YUV input for Progressive Scan (source f.e. DVD). 170° viewing angle (horizontal/vertical). Intelligent signal transmission to avoid picture faults. Simple Easy Dialog user guidance. Plug and Play due to a fully integrated fan-less power supply. System remote control TP 110 C. Dimensions approx. : 73 x 54 x 12 (14 with stand) cm. Weight: approx. 16 kg. Stand and wall fixture included in delivery.



Tharus 110 PW 110-9410 TOP

Ultimate flat Plasma-TV with 16:9 wide-screen format with 42" (106 cm) PlanaVision Plasma display and contrast-filtering screen. Extremely bright (1,000 cd/m² brightness) and high in contrast (1,000:1) picture for TV, video and PC. 170° viewing angle (horizontal/vertical). Intelligent signal transmission to avoid picture faults. Optical harmonising sound unit with Magic Fidelity System and 30 watt music output for a fascinating sound. YUV input for Progressive Scan (source f.e. DVD). Intelligent user guidance due to the simple Easy Dialog System. Plug and Play due to a fully integrated fan-less power supply. System remote control TP 110 C. Dimensions approx. : 105 x 80 x 13 (23 with stand) cm. Weight: approx. 40 kg.



The attractive console Table Top Stand Tharus 110 is available as an accessory.



The Tharus LCD-TVs, with their elegant design, enables you now to position your TV at nearly any place in your home due to their flat housing and light weight. Even places, where you failed to install your picture tube TV in the past because of it's voluminous dimensions, are now open for new furnishing.

The Tharus series will be completely available within the first half year of 2004. The Tharus 76 and Tharus 60, two high-end LCD-TVs with premium equipment in wide-screen format 16:9, will be available then:



Tharus 30 LW 76-9410 Dolby

Design LCD-TV with a 30" (76 cm) Planalux Active Matrix TFT-LC display in the 16:9 format and with Magic Fidelity.



Tharus 26 LXW 68-9410 Dolby

Design LCD TV with 26 inch (66 cm) Planalux Active Matrix TFT LC display in 16:9 wide-screen format and Magic Fidelity.



Design Pure in Every Detail

Perfect workmanship, metallic paint finish and interesting line and form guidance from every angle make the Tharus a genuine highlight. The terminal



strip is buried so that nothing disturbs the unobtrusive and elegant impression of this design LCD.

LCD-TV sets of the new generation with Planalux TFT-LC display for

brilliant, plasticity pictures. Supported by a powerful sound due to the

unique Magic Fidelity System – a sound unit which is not only

LCD-TV SERIES THARUS

unmatched in its optic but also with its sound you definitely never

experienced before. Also the design meets the high technical

requirements of this LCDs in every respect. The transmission module WT-

AV1 supplies you with wireless reception of audio and video

signals within an area of 30 meters (further information see page 20).



Magic Fidelity-Soundsystem

It not only looks good, it convinces with a powerful and brilliant sound produced from its ingenious 3-channel active loudspeaker system – hear it for yourself and be amazed.



Tharus 51 LCD 51-9410 Dolby

Design LCD-TV with metallic paint finish and unmatched sound. 20" (51 cm) Planalux Active Matrix TFT-LC display. New display generation with bright (400 cd/m²) and high contrast (400:1) TV pictures. 170° viewing angle (horizontal/vertical). Intelligent signal processing to avoid picture faults. Optically separated sound unit with Magic Fidelity Sound and Virtual Dolby® Surround sound for a fascinating sound. Integrated electronic programme magazine – TV Guide. TeleWeb – new graphical, high

quality and convenient videotext. Self-explaining Easy Dialog user guide. Alpha-numeric programme selection. Plug and play through a fully integrated power supply. Buried terminal strip for Euro-AV (RGB and S-video suitable), VGA, camera recorder, and stereo headphones. System remote control TP 150 C. Handy dimension: approx. 48 x 47 x 7 (14.5 with stand) cm. Low weight: 7.5 kg. Colour: front silver, back light-blue metallic. Sender and reception module WT-AV1 available as an accessory.



Technical Data see page 80.

® Trademark of the Dolby Laboratories Licensing Corporation

Xentia 26 LW 68-7410 TOP

66 cm (26 inch) CCS Active Matrix TFT LC display in 16:9 format. Latest display generation with bright (600 cd/m²) and rich in contrast (600:1) picture for TV, DVD and video. 170° angle of vision (horizontal/vertical). Optical antireflection and clear colours due to Clear Colour screen coating. Intelligent signal processing to avoid picture faults. Uncomplicated Easy Dialog user guidance. YUV input for progressive scan (source, for example, DVD). 2 Euro-AV jacks (1 x RGB, 1 x S-video). Plug and Play due to integrated mains supply unit. Dimensions ca.: 67 x 51 x 10 cm (26 x 20 x 4 inch) (25 cm [9 inch] with stand). Weight ca.: 13 kg. Colour: silver.



Arganto 23 LW 60-6410 TOP

58 cm (23 inch) Active Matrix TFT-LC display. Brightness 450 cd/m². Contrast ratio 400 :1. Also suitable as a pc screen (WUXGA). Videotext integrated. Timer function. YUV input for progressive scan (source, for example, DVD). 1 x Euro-AV (RGB), VGA, stereo headset. Dimensions ca. : 68 x 43 x 9,5 cm (27 x 17 x 3.7 inch) 21 cm (8.3 inch) with stand. Weight ca.: 10.5 kg, Colour: silver. Transmission- and reception module WT-AV 1 available as an accessory.



XENTIA AND ARGANTO. BRILLIANT PICTURES LIKE NEVER SEEN BEFORE

Luminous colours even at bright surrounding light conditions, an impressive sharpness, natural floating flicker free movements of the screen motives and absolute sharpness even at fast camera rotations. All this creates the precise picture quality you have never experienced before. And then of course the brilliant design – nothing compares – experience it for yourself.



Xentia 32 LXW 82-7410 TOP

81 cm (32 inch) CCS Active Matrix TFT LC display in 16:9 format. Latest display generation with bright (550 cd/m²) and rich in contrast (800:1) picture for TV, DVD and video. 170° angle of vision (horizontal/vertical). Optical antireflection and clear colours due to a clear colour screen coating. Intelligent signal processing to avoid picture faults. Uncomplicated Easy Dialog user guidance. YUV input for progressive scan (source, for example, DVD). 2 Euro-AV jacks (1 x RGB, 1 X S-video). Plug and Play due to integrated mains supply unit. Dimensions ca.: 93 x 66 x 10 (25 with stand) inch. Weight ca.: 18 kg. Colour: silver. Available September 2004.



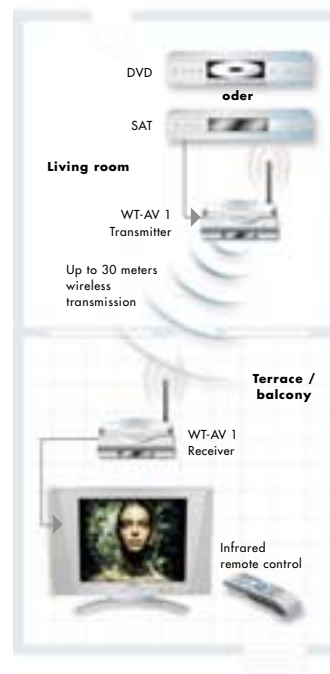
Arganto 17 LW 45-6410 TOP

43 cm (17 inch) Active Matrix TFT-LC display. Brightness 400 cd/m². Contrast ratio 400:1. Also suitable as a pc screen (WUXGA). Videotext integrated. Timer function. YUV input for progressive scan (source, for example, DVD). 1 x Euro-AV (RGB), VGA, stereo headphone. Dimensions ca.: 52 x 34 x 9,5 cm (20.5 x 13.3 x 3.7 inch) (20cm [7.9 inch] with stand). Weight ca.: 9.5 kg. Colour: silver. Transmission- and reception module WT-AV1 available as an accessory.



Experience free space in a new way with the module WT-AV 1.

Advanced radio technology in the gigahertz range makes it possible: whether the signals come from a SAT receiver, DVD player, or a video recorder, the LCD-TVs (and other TV sets like Portables and more) receive all AV signals wireless and in a fascinating quality. The transmitter of the transmission module WT-AV 1 sends it from the corresponding source to the receiver connected to the LCD-TV. Freedom within a range of up to 30 meters – which means practically in the entire apartment including the terrace. Complicated wire installations from one room to the next are eliminated.



Amira 30 LW 76-9401 TOP

30 inch (76 cm) Active Matrix TFT-LC display in 16:9 wide-screen format. Brightness 600 cd/m². Contrast ratio 600:1. Colour: Titane.



Amira 17 LW 45-9401 TOP (without picture)

17 inch (43 cm) Active Matrix TFT-LC display in 16:9 wide-screen format. Design and colour like the Amira 30. Available August 2004.



Amira 20 LCD 51-9401 TOP

51-cm Active Matrix TFT-LC display for bright (450 cd/m²) and rich in contrast (400:1) TV pictures. Also suitable as a PC screen (VGA). Videotext integrated. Timer function. Connection possibilities: 2 x Euro-AV (1 x RGB), S-Video, VGA, stereo headphone and remote control TP 156 C. Dimensions ca.: 58 x 44 x 8 cm (20 with stand console). Weight: ca. 8 kg. Colour: silver. Transmission- and reception modul WT-AV 1 available as an accessory.



Amira 38 LCD 38-9410 TOP

15" (38 cm) Active Matrix TFT-LC display. Bright (450 cd/m²) and contrast-rich (400:1) picture for TV and video. Also suitable as PC monitor (XGA resolution). Strong stereo sound. Integrated videotext. Timer functions. Connectivities: 1 x Euro-AV (1 x RGB), S-video, VGA, stereo headphones and more. Remote control TP 156 C. Dimensions approx: 39 x 36 x 6 (16 with stand) cm. Weight: approx. 4.6 kg. Colour: silver. Sender and reception module WT-AV1 available as an accessory.

Interesting in its design and innovative in its technology and functionality. Equipped with attractive technical details, and compact and mobile due to its light weight. Grundig opens new dimension

LCD-TV AMIRA – WIRELESS AND FLEXIBLE

with its small LCD-TV sets. They receive all video and audio signals also via transmission module WT-AV 1 instead per cable and that within an area of 30 meters. Also outdoor on your balcony or your terrace. That makes them to flexible all-rounders, which convince with flicker-free and radiant colours.



Amira 45 LCD 45-9410 TOP

17" (43 cm) Active Matrix TFT-LC display. Bright (330 cd/m²) and contrast-rich (400:1) picture for TV and video. Also suitable as PC monitor (SXGA resolution). Strong stereo sound. Integrated videotext. On/off timer functions. Connectivities: 2 x Euro-AV (1 x RGB), S-video, VGA, stereo headphones and more. Remote control TP 156 C. Dimensions approx.: 51 x 39.5 x 8 (18 with stand) cm. Weight: approx. 5.8 kg. Colour: silver. Sender and reception module WT-AV1 available as an accessory.

Enjoy every day cinema highlights with happy end. Watch them
on a 102 cm large high contrast screen which supplies your
favorite movie in a such impressive picture quality due to its

ARGANTO 40 RE-PROJECTION

100 hertz digital reference technology. In this way the Argento
40 provides you with extraordinary movie entertainment to best
price/performance ratio in your own home. This rear projecting
TV combines the latest technology in a absolut impressive device
with a small housing dept.



With one of the three Cinemo DVD sets (see page 46/47) the Argento 40 can easily
be upgraded into a private home cinema. DVD player, RDS tuner and the amplifier
are integrated in these Cinemos. The 4 surround loudspeakers, the centre speaker
and the subwoofer playback the grandious, near to reality Dolby® Digital 5.1 spatial
sound which should not be missed to enjoy real cinema feeling.

Technical Data see page 83.

Pictogram descriptions see page 82.

® Trademark of the Dolby Laboratories Licensing Corporation



Arganto 40 RPW 102-6410/8 TOP

Large screen TV in 16:9 with rear projection technology. 102 cm high contrast screen. Super
picture quality due to flicker free 100 hertz digital reference technology. 2-tuner PIP (picture
in picture). Dimension of standing devise: 94 x 90 x 57 cm. Colour: Procon silver. Available:
July 2004. Picture on universal TV table 1 with additional devises.



XEDANCE – PICTURE AND SOUND IN BESTFORM

Let yourself be fascinated: from design, the brilliant picture concept and the exciting Virtual Dolby® Surround Sound that gives you an absolute new dimension of spatial sound. By means of two high-performing loudspeakers built-in the TV, without additional loudspeakers. The real flat picture tube presents itself as flat as a picture and supplies a sensational picture quality as well as an impressive optics. The noble design underlines the expectations of this series, whether in wide-screen format 16:9 or in classical 4:3.



Xedance 72 Flat MF 72-3310/7 TOP
29" (72 cm) Megatron Real Flat colour picture tube in the classical 4:3 format. 2-tuner-PIP (picture-in-picture). Same time presentation of 2 programs on a splitted screen (PAP). Videotext with 2048 pages memory. System remote control TP 160 C. TV dimensions approx.: 80 x 58.8 x 48.7cm. Colour: procon silver. Illustration on the Universal TV Table 1 with an additional device.

Xedance 82 Flat MFW 82-3310/7 Dolby

32" (82 cm) Megatron Plus Real Flat colour picture tube in 16:9 wide-screen format. Virtual Dolby® Surround with 30 watt music output. 2-tuner-PIP (picture-in-picture). Same time presentation of 2 programs on a splitted screen (PAP). Videotext with 2048 pages memory. System remote control TP 160 C. TV dimensions approx.: 92.1 x 56.8 x 54.5 cm. Colour: procon silver. Illustration on console TVS 8201 with an additional device.



EXPERIENCE HOME CINEMA WITH CINARO

This will attract attention – a new designer piece in your living room that exudes genuine cinema flair. The Cinaro TV design combines with the elegant console to form a harmonic unit; additional equipment such as a DVD player or an A/V receiver can be conveniently installed to provide the optimum playback source for Home Cinema. The technical features are also quite impressive – with Real Flat picture tube and flicker-free 100/120 Hertz technology, to mention only the most important details.



Cinaro 82 Flat MFW 82-5410/7 Dolby
32" (82 cm) Megatron Plus Real Flat colour picture tube in 16:9 wide-screen format. Virtual Dolby® Surround with 30 watt music output. Same time presentation of picture and videotext on a splitted screen (PAT). Videotext with 1024 pages memory. System remote control TP 160 C. TV dimensions approx.: 80 x 58.2 x 55 cm. Colour: procon silver. Illustration on console TVS 8272 with an additional device.

Technical Data see pages 83 and 84.
Pictogram descriptions see page 82.
® Trademark of the Dolby Laboratories Licensing Corporation

TP 160 C



As a desktop (without stand console, accessory) also available in the colour tessa black.



Cinaro 72 Flat MF 72-5410/7 TOP

29" (72 cm) Megatron Real Flat colour picture tube in the classical 4:3 format. Videotext with 1024 pages memory. System remote control TP 160 C. TV dimensions approx.: 80 x 58.2 x 49.3 cm. Colour: procon silver. Illustration on console TVS 8272 with an additional device.



Arcance 72 Flat MF 72-2410/7 TOP
29" (72 cm) Real Flat colour picture tube in the classical 4:3 format. Stereo sound with 30 watt music output. Videotext with 512 pages memory. System remote control TP 160 C. Dimensions approx.: 75.9 x 57.6 x 49.5 cm. Colour: procon silver. Illustration on console TVS Arcance 72 with additional devices.



Elegance 55 Flat MF 55-2501 TOP
55-cm Black Line FX real flat picture tube (visible picture 51 cm). Videotext. System remote control TP 160 C. Dimensions ca.: 59.4 x 48.1 x 45.1 cm. Colour: Procon silver. Picture on console TVS 5510/5511 with additional devises.

Technical Data see pages 83, 84 and 85.

Pictogram descriptions see page 82.

® Trademark of the Dolby Laboratories Licensing Corporation



ARCANCE – CLASSICAL AND VERSATILE

Television sets with a Real Flat picture tube. In the wide-screen format

16:9 or the classical 4:3 format, with 100/120 Hertz or 50/60 Hertz

technology, with Virtual Dolby® Surround or with stereo sound. You

can choose from four models, all with user-friendly equipment.

100
Hertz

Top
videotext

512
pages
videotext

ATS
audio plus

Virtual
Dolby
Surround

Elegance 82 Flat MFW 82-2510/8 Dolby

Elegance 55 Flat MF 55-2501 TOP

Arcance 72 Flat MF 55-2410/7 TOP



TP 160 C

Elegance 82 Flat MFW 82-2510/8 Dolby

82 cm real flat picture tube in wide-screen format 16:9 (visible picture 76 cm). Virtual Dolby, Surround with 30 watt music output. Same time presentation of picture and videotext on a splitted screen (PAT). Videotext with 512 page memory. System remote control TP 160 C. Dimensions ca.: 89 x 54.2 x 55.2 cm. Colour: Procon silver. Picture on console TVS Elegance 82 with additional devises.



Sedance 70 ST 70-2010 TOP
70-cm Black Line FX picture tube (visible picture 66 cm). Flicker free 100 hertz technology. Video-text 20 watt music output. System remote control TP 160 C, Dimensions 73 x 55 x 45.7 cm. Colour: Procon silver.



Sedance 70 ST 70-2500 TOP
70-cm Black Line FX picture tube (visible picture 66 cm). Videotext. 20 watt music output. System remote control TP 160 C. Dimensions ca.: 73 x 55 x 45.7 cm. Colour: Procon silver.

SEDANCE – NEW CLASSIC

We can offer you the attractive 28" (70 cm) size class combined with the Sedance design: either 50/60 Hertz or 100/120 Hertz, either as stand-alone model with the matching console or to be integrated into a closet wall – these televisions in a discreet procon silver will leave no wishes unfulfilled



Sedance 70 ST 70-2405/5 TOP (no pic.)
28" (70 cm) Black Line FX colour picture tube. Videotext. 20 watt music output. System remote control TP 160 C. Dimensions approx.: 80.1 x 57.3 x 47.7 cm. Colour: procon silver.



Sedance 55 ST 55-2500 TOP
55-cm Black Line FX picture tube (visible picture 51 cm). Videotext system remote control TP 160 C. Dimensions ca.: 59.3 x 45.4 x 49.7 cm. Colour: Procon silver.



Sedance 70 ST 70-2410/7 TOP
28" (70 cm) Black Line FX colour picture tube. Flicker-free 100/120 Hertz technology. Videotext with 512 pages memory. System remote control TP 160 C. Dimensions approx.: 80.1 x 57.3 x 47.7 cm. Housing colours: Procon silver or Tessa black.

Technical Data see pages 84 and 85.

Pictogram descriptions see page 82.

100 Hertz	■	■	■	■	■
512 pages videotext	■	■	■	■	■
top text	■	■	■	■	■
ATS easy plus	■	■	■	■	■
ATS	■	■	■	■	■
Sedance 70	ST 70-2410/7 TOP	ST 70-2010 TOP	ST 70-2405/5 TOP	ST 70-2500 TOP	ST 55-2500 TOP

Davio: a television unit of singular perfection. Unmistakable forms and high-quality materials lend these TV sets a most unique character. The portables appear modern and noble due to their colour corona silver. And if you will have a closer look they totally show you their individual strength.

DAVIO – THE LURE OF THE LINE



Davio 55 T 55-4201 TOP
21" (55 cm) Black Matrix colour picture tube.
Videotext. Dimensions approx.: 51.8 x 48.3
x 47.8 cm. Colour: corona silver. Illustration
on console TVS 5510 (available as an
accessory) with an additional device.



Davio 37 P 37-4201 TOP
14" (37 cm) Black Matrix colour picture tube.
Videotext. Remote control TP 751 C. Telescope
antenna. Dimensions approx.: 37.1 x 37 x 36.3 cm.
Colour: corona silver.

Davio 51 T 51-4201 TOP
20" (51 cm) Black Matrix colour picture tube. Videotext.
Dimensions approx.: 51.7 x 48.7 x 47.1 cm. Colour: corona
silver. Design identical to the T 55-4201 TOP.





The future of TV is digital and will offer the appropriate program for everyone – see more, have more entertainment and a wide range of products. The final digitalisation of the TV- and radio networks will prospectively be completed by the end of the year 2010. The standardised digital transmission of video signals: DVB (digital video broadcasting) . GRUNDIG offers digital TV receivers for the reception over satellite (DVB-S) or antenna (DVB-T).

TV-RECEIVER / DVD-PLAYER / VIDEO-RECORDER

With DVD (digital versatile disc) you are provided with the right medium to turn your home into a Home Cinema. With GRUNDIG DVD players you are able to enjoy your movies in brilliant picture- and sound quality just as if you were in a cinema. GRUNDIG video recorder. Simplified handling through a few clear arranged buttons. Speedy drives enable fast-forward- or reverse actions within seconds.



The future of TV is digital and offers a appropriate program for everyone.

The reception of hundreds of TV- and radio programs in extraordinary picture-

and sound quality is possible due to these two Digital SAT Receivers. A new

DIGITAL-SAT-RECEIVER

dimension of TV and a variety of additional information all around the

program. Today already a lot of TV-stations are broadcasted digital over

the satellites ASTRA and EUTELSAT and the numbers are growing every day.

Cinia DTR 2280 S

Digital TV receiver (DVB-S) for the reception of free uncoded programs. 2000 program stations. Videotext competent. DiSEqC 1.0. symbol rate 2 – 45 Msymbol/sec. SCPS/MCPC. Automatic and manual station search function. Software download possible over satellite. RS 232 interface. Remote control TP 760 S. Colour: Black.



DSR 2410

Digital TV receiver (DVB-S) for the reception of free uncoded programs. 4000 program stations. Video text competent. Mini-EPG: program list with program attending information; program preview for several days ahead. DiSEqC 1.0. symbol rate 2 – 45 Msymbol/sec. SCPS/MCPC. Automatic and manual station program search function. Software download possible over satellite. Dolby, Digital output to connect a AV-receiver. RS 232 interface. Remote control TP 765 S, Colour: Procon silver.



DTR 2420

Digital TV receiver (DVB-T) for the reception of digital TV- and radio programs over the house- or room antenna. 1000 program stations. Videotext competent. Mini-EPG: program list with program attending information; program preview for several days. Automatic and manual station search function. 5-V current supply for active antennas. Software download possible over antenna.

Dolby® Digital output for the connection of a AV receiver. RS 232 interface. Remote control TP 765 S. Colour: Procon silver.



Remote control
TP 765 S

Digital TV via antenna (DVB-T: Digital Video Broadcasting-Terrestrial) provides you – without

cable, without satellite – more programs in a better picture- and sound quality. Thereby all

picture- and sound signals are packed by the use of the MPEG2 method and transmitted as

DIGITAL TV OVER ANTENNA

a whole data pack. Through this, up to 4 TV programs can be set in 1 TV channel. During

the reception the decoder converts the signals back and makes them visible for commercial

standard TV devices. Therefore the existing house antenna can be continued to be used.

Certainly the reception is also possible with a small bar antenna which is very convenient

regarding mobile reception. Besides the decoder and the possible room antenna there are

no further costs for the reception of uncoded terrestrial programs.

Do you film or photograph digital? Or do you file your scanned photos on CD-R or CD-RW? Do you download MP3 files on the internet? Then you need a player

DVD PLAYER THE MULTI TALENTS

which can replay your privat DVDs and CDs as well as the standard commercial

DVDs, audio- and video-CDs and file them on digital photo albums where you can

just skim through them. Grundig DVD players are real all-rounders and easy to

handel due to its clear On Screen Display. A few clear arranged buttons, placed

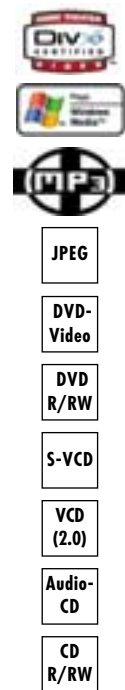
on the front, underline the attractive design of these players.

Livance GDP 2400

Comfort DVD player. Playable disc formats*: DVD video, DVD R/RW, divX CD, super video CD, video CD (2.0), audio CD, CD-R, CD-RW, MP3 CD, WMA CD (high-graded packed Windows audio format) as well as JPEG- and Kodak picture CD. YUV jacks to display full pictures in progressive scan format (improved picture quality by LCD TV connection resp. with projector connection). Virtual Dolby, Surround Sound for a spatial sound without any additional loudspeakers. Digital output (optical and coaxial): Dolby, Digital AC-3, MPEG 2, DTS (Digital Theater System), PCM. Digital sound effects. Easy handling over OSD. System remote control TP 81 D, with which also basic functions of GRUNDIG TVs can be controlled. Additional functions: Zoom, slow motion, perfect standby picture, direct selection of music titles and movie chapters. Housing colour: Procon silver. Available: July 2004.



TP 81 D



It is possible with the video format DivX to pack movies in MPEG 4 format and record them on a CD. The Livance playbacks the DivX versions 3.11, 4.x and 5.x.



The picture viewer enables via DVD player a "dia show" of CD-R/RW recorded photos in JPEG format and of Kodak picture CD.



DPS 5200

Loudspeaker system strong on sound, suited for the playback of Dolby® Digital 5.1 cinema sound. Consisting of 2 front loudspeakers, 2 rear loudspeakers, 1 centre loudspeaker each with 100 watt music capacity and an active subwoofer with 120 watt music output.



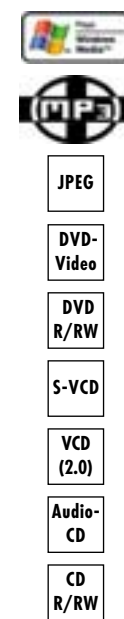
Cinio AVR 5200 DD

A/V receiver which is optimally coordinated to the DVD player Cinio GDP 5240 in the design and technique. Equipped with a decoder for Dolby® Digital 5.1, DTS and ProLogic II. Detailed information about this device is found on pages 44 und 45.

Cinio GDP 5240

Comfort DVD player with high quality aluminium front.

Optimally coordinated to the A/V receiver Cinio AVR 5200 DD in design and technique, onto which the loudspeaker set DPS 5200 for the playback of Dolby® Digital 5.1 cinema sound may be connected (see also pages 58/59 in this brochure). 192 kHz audio DAC for brilliant sound. Playable disc formats*: DVD video, DVD R/RW, super video CD, video CD (2.0), audio CD, CD-R, CD-RW, MP3 CD, WMA CD (high quality compressed Windows audio format) as well as JPEG CD. Dolby® Virtual Surround Sound for spatial sound without additional loudspeakers. Digital output (optical and coaxial): Dolby® Digital AC-3, MPEG 2, DTS (Digital Theatre System), PCM. Digital sound effects. Simple operation via the OSD. Quick replay – the last viewed 7 seconds are played back at the touch of a button. System remote control TP 81 D, with which the basic functions of Grundig TVs may also be controlled. Additional features: CD text, programme modes (CD, MP3), random play, zoom, slow motion, perfect still picture, direct selection of music titles and film chapters. Housing colour: procon silver.



TP 81 D



The picture viewer enables via DVD player a "dia show" of CD-R/RW recorded photos in JPEG format and of Kodak picture CD.

Technical Data see page 87.

*Legend for playability of self-made DVDs and CDs: see page 87.

® Trademark of the Dolby Laboratories Licensing Corporation



GDP 3300
GDP 1100

GDP 1100

DVD player in 43 cm format. Playback of the following disc formats*): DVD video, DVD R/RW, super video CD, video CD (2.0), audio CD, CD-R, CD-RW, MP3 CD as well as JPEG- and Kodak picture CD. Virtual Dolby, Surround Sound for a spatial sound without additional loudspeakers. Digital output (optical and coaxial): Dolby, Digital AC-3, MPEG 2, DTS (Digital Theater System), PCM. Digital sound effect. Easy handling over OSD. Additional functions: Zoom, slow motion, perfect standby picture, direct selection of music titles and movie chapters. Housing colour: Procon silver.



An absolute new way for movie watchers offers these new DVD players: the picture quality of a DVD is absolute top and reaches proximate studio quality.

DVD PLAYERS WITH A LOT OF FORMAT

The sound opens the vision to be directly in the middle of the event. Our players also are suitable to replay DV hobby films, digital photo albums (on CD-R, CD-RW, VCD 2.0 or S-VCD) or MP3-files and are therewith very impressive and multifunctional.

GDP 3300

DVD player in the flat 14 inch (36 cm) format. Optimal harmonising in design and technology with the A/V receiver AVR 4300 DD. Playable disc formats*: DVD video, DVD R/RW, DivX CD, super video CD, video CD 2.0, audio CD, CD-R, CD-RW, MP3 CD, WMA CD (high-quality compressed Windows audio format) as well as JPEG- and Kodak picture CD, Dolby, Virtual surround sound for a spatial sound without additional loudspeakers. Integrated decoder for Dolby® Digital 5.1, MPEG 2, DTS (digital theater system) and PCM. Digital sound effects. Simple handling over OSD. Remote control TP 81 D, with which you also can control the GRUNDIG TV main functions. Additional functions: zoom, slow motion, perfect stand picture (fixed-image), direct selection of music titles and film chapters, Housing colour: Procon silver. Available July 2004.



It is possible with the video format DivX to pack movies in MPEG 4 format and record them on a CD. The Livance playbacks the DivX versions 3.11, 4.x and 5.x.



The picture viewer enables via DVD player a “dia show” of CD-R/RW recorded photos in JPEG format and of Kodak picture CD.



Whether in procon silver or in tessa black, our new video recorders convince you with an interesting and exciting look. The technology has been improved as well:

the Megalogic system makes operating the player as simple as you can possibly

HIFI VIDEO-RECORDER – INDIVIDUAL AND STRONG IN COMBINATION

imagine. And when you connect it to a TV with the TV Guide function, then you

can programme the recordings conveniently over the television’s electronic programme guide. The picture improvement system ACC+ can now correct faulty pictures even more exactly, and thus allow for the creation of the best pictures.

Choose from a limited amount of features with the certainty that you have chosen a user-friendly video recorder.



TP 92 V

GV 3243 HiFi

HiFi stereo video recorder with 4 + 2 head drive mechanism. Super fast high speed drive mechanism. Optimum picture improvement system ACC+. Megalogic system. Timer programming via TV Guide (in connection with a TV Guide capable TV). Automatic 16:9 format switching. Longplay for double tape capacity. Perfect still picture. 2-channel recording and playback. Convenient frontal location for camera connection socket. Remote control: TP 92 V. Colours: procon silver or tessa black.



Vivance GV 3243 HiFi in Tessa black



TP 92 V



Grundig Home Cinema components enhance the sound of your wide-screen TV in 16:9 format. Experience real cinema atmosphere in brilliant picture- and sound quality in your own home. DVD and A/V-receiver with an optimal harmonising sound system supply you with the fascinating Dolby®Digital 5.1 cinema sound.

HOME CINEMA / HIFI / AUDIO PORTABLES

A perfect sound is not a question of size but of perfection. That's why the HiFi systems, made by GRUNDIG, are always provided with high-graded and efficient technical components. Experience clear and vital sound, regardless which music style, encased in a timeless design. Audio portables made by GRUNDIG fulfil all your expectations. They are compact, light weighted, high efficient and convince with their substantial great sound. Therefore nobody must go outdoors without his music or without the current news.





Do you want to enjoy genuine cinema experience with a unique picture and sound quality at home as well? Do you want digital Home Cinema with

A/V-RECEIVER – SOUND WORLDS JUST LIKE AT THE MOVIES

brilliant pictures and a mind-blowing sound atmosphere? No problem. You

can upgrade your wide-screen television into a full-scale Home Cinema System

with the new Grundig A/V receivers Cinio and Xenaro in combination with

the DVD players Cinio and Xenaro and the loudspeaker system

DPS 5200. Because these Home Cinema modules are optimally coordinated

to one another and bring you the fascinating Dolby® Digital 5.1 cinema sound

into your own four walls. And they let you experience the

films as if you were in the middle of the action.



← 43 cm →

Cinio AVR 5200 DD

17" (43 cm) wide A/V receiver with a decoder for Dolby® Digital 5.1, DTS and ProLogic II. Powerful amplifier unit with 90 watt music output per channel (8 Ω) resp. 70 watt music output per channel (4 Ω) and 60 watt nominal output per channel (8 Ω) resp. 45 watt nominal output per channel (4 Ω) in the Surround mode. Loudspeaker impedance is switchable between 4 and 8 Ω. FM RDS tuner with 40 station memory. Numerous possibilities for connections. Solid aluminium front. Dimensions: 43.5 x 13 x 34.5 cm.



← 36 cm →

AVR 4300 DD

14" (36 cm) wide A/V receiver with a decoder for Dolby® Digital 5.1, DTS and ProLogic II. Powerful amplifier unit with 30 watt music output per channel (4 Ω) resp. 20 watt nominal output per channel (4 Ω) in the Surround mode. FM RDS tuner with 40 station memory. Numerous possibilities for connections. Dimensions: 36 x 9.6 x 28 cm.



Cinio GDP 5240

Information about this DVD player is found on page 39. Optimally coordinated to the Cinio A/V receiver in the design and technique.



DPS 5200

Loudspeaker system strong on sound, ideally suited for the playback of Dolby® Digital 5.1 cinema sound. Consisting of 2 front loudspeakers, 2 rear loudspeakers, 1 centre loudspeaker each with 100 watt music capacity and an active subwoofer with 120 watt music output.



SLB 2-Set

Two 2-way bass-reflex speakers mounted on standing bases with 75 watt music capacity.

Alternatively you can connect the Grundig A/V receivers with four stand-alone designer

loudspeakers using the SLB 2-Sets (2 x SLB 2-Set). This arrangement allows for a balanced 4-channel Surround sound and impresses due to the extravagant optic of the loudspeakers.



GDP 3300

The optimal harmonising DVD player regarding optic and technology for the A/V receiver AVR 4300 DD, please see page 40. Available: July 2004.



Cinemo DR 5400 DD

Cinemo DR 3400 DD

Cinemo DR 3305 DD



Cinemo DR 3400 DD

DVD receiver with decoder for Dolby® Digital 5.1, DTS and ProLogic. 5 x 25 watt sinus output. (subwoofer 35 watt) resp. 5 x 35 watt music output (subwoofer 50 watt). Integrated DVD player playable with the following disc formats: DVD video, DVD-R, DVD-RW, super video CD, video CD (1.1 and 2.0), JPEG CD, audio CD, CD-R and CD-RW in CD-DA, WMA- and MP3 format, Digital sound effects (concert, hall etc.) UKW/MW tuner with 60 station memory, RDS by UKW reception, Dimensions: 36 x 8 x 38 cm (14 x 3 x 15 inch), Dolby® Digital 5.1 loudspeaker set is integrated in the delivery.



Cinemo DR 5400 DD

DVD receiver with decoder for Dolby Digital 5.1, DTS and ProLogic. Powerful amplifier unit with 25 watt sinus output per channel (8 W) in surround mode. Integrated DVD player for following disc formats*): DVD video, DVD-R, DVD-RW, super video CD, video CD (1.1 and 2.0), JPEG CD, WMA CD, audio CD, CD-R and CD-RW in CD-DA and MP3 format. Digital sound effects (concert, hall etc.). UKW/MW tuner with 60 station memory. RDS by UKW reception. Dimensions: 36 x 3 x 38 cm. Dolby, Digital 5.1 loudspeaker set included. Available: July 2004.

PICTURE VIEWER

The picture viewer enables via DVD player a "display" of CD-R/RW recorded photos in JPEG format and of Kodak picture CD.

Loudspeaker set for Cinemo DR 3305 DD

Harmonises perfectly with the output capacity of the DVD receiver Cinemo and consists of 2 front speakers, 2 rear speakers, 1 centre loudspeaker with 50 watt music capacity each and a active subwoofer with 100 watt music output.



Cinemo DR 3305 DD

DVD receiver with a decoder for Dolby® Digital 5.1, DTS and ProLogic. Powerful amplifier with 50 watt music output for each channel (8 Ω) resp. 30 watt nominal output for each channel (8 Ω) in the Surround mode. Integrated DVD player for these disc formats*: DVD video, DVD-R, Super video CD, video CD (1.1 and 2.0), audio CD, CD-R and CD-RW in the CD-DA and the MP3 format. FM/MW(AM) tuner with 40 station memory. RDS with FM reception. Dimensions: 43.5 x 6 x 34.5 cm. The Dolby® Digital 5.1 loudspeaker set is included in delivery.

With the new Home Cinema Set Cinemo you can upgrade your existing TV set to a complete Home Cinema System. The Dolby® Digital decoder in the inner of the DVD receiver and the optical harmonising loudspeaker set furnish

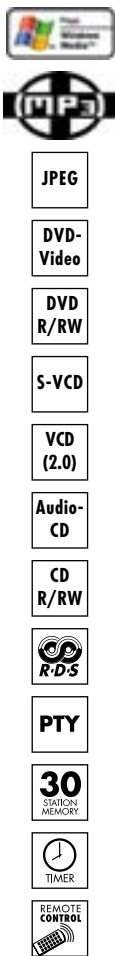
HOME CINEMA SET CINEMO – COMPACT AND POWERFUL

you with an powerful, excellent sound atmosphere which represent – together with the brilliant pictures of your TV device (most ideal combination with 16:9 wide-screen format) – real original cinema entertainment. Moreover, the DVD receiver is provided with a tuner so that you also can listen to the radio and also due to its integrated DVD drive can hear your audio CDs what turns the Cinemo furthermore to a sound- and powerful HiFi stereo device.



Technical Data see page 91.

* Trademark of the Dolby Laboratories Licensing Corporation



UMS 6400 DVD

UMS 4400 DVD

It is hard to believe what these two DVD micro systems can do in spite of their compact sizes. They are little masterpieces of technology and user comfort. These devices enable

MICRO SYSTEMS INCLUDED WITH DVD PLAYER

you, for example, to upgrade all your other additional TVs at home into a Home Cinema System. You can enjoy on all your TVs DVD videos, MP3- and WMA CDs in an amazing sound quality. Depending on your available space with three or six loudspeakers. Due to the YUV outputs for progressive scan you also can plug in your LCD TV and enjoy your special Home Cinema entertainment.



Scenos UMS 6400 DVD



DVD micro system inclusive decoder for Dolby Digital 5.1, DTS and ProLogic. Amplifier unit with 14 watt music output per channel (8 Ω) resp. 10 watt sinus output per channel (8 Ω) in surround mode. Integrated DVD player for the following disc formats*: DVD video, DVD-R, DVD-RW, super video CD, video CD (1.1 and 2.0), JPEG CD, WMA CD, audio CD, CD-R and CD-RW in CD-DA and MP3 format. UKW /MW tuner with 30 station memory. RDS by UKW reception. Dolby, Digital 5.1- loudspeaker set with active subwoofer (70 watt music output) is integrated.



Scenos UMS 4400 DVD

DVD micro system inclusive decoder for Dolby Digital 2.1 and ProLogic. Amplifier unit with 18 watt music output per channel (8 Ω resp. 12 watt sinus capacity per channel (8 Ω). A DVD player for the following disc formats*) is integrated: DVD video, DVD-R, DVD-RW, super video CD, video CD (1.1 and 2.0), JPEG CDs, audio CD, CD-R and CD-RW in CD-DA and MP3 format. UKW/MW tuner with 30 station memory. RDS by UKW reception. Integrated active subwoofer with 45 watt music output. Available: July 2004.



Technical Data see page 91.

Pictogram descriptions see page 89.

* Comments about self recorded CDs and DVDs please see page 87.

® Trademark of the Dolby Laboratories Licensing Corporation

Cirflexx UMS 4110

160 WATT PMPO Technically identical to UMS 4100, but additionally equipped with a full electronic auto-reverse cassette player. Housing colour: piano black.



Grundig Micros out of the Cirflexx-family. Due to their unobtrusive, elegant optic they always are an eye-candy and fit in any modern ambient. It is absolute amazing what tremendous and powerful sound this small all-rounder

MICRO SYSTEMS

manages to supply. Moreover, these Cirflexx micros are available in different outfits for individual requirements: in an elegant piano black, with or without tape player or even with CD player which is also suitable to playback MP3-CDs.



Technical Data see page 92.

* Pictogram explanations and legend for CD-R/RW playability: see page 89.

Cirflexx UMS 4100

160 WATT PMPO A complete micro system with 160 watt PMPO (2 x 12 watt nominal output). RDS tuner, CD player (CD-R playability in the CD-DA format*), 2 speakers and remote control. 5-way pre-set equalizer. Colour: procon silver.



Cirflexx UMS 4101

160 WATT PMPO Technically identical to UMS 4100, but additionally with a full electronic auto-reverse cassette player. Housing colour: aero grey.



Cirflexx UMS 4201 SPCD

160 WATT PMPO Technically identical to UMS 4100, but the CD player can read and play CD-Rs and CD-RWs in the CD-DA and the **MP3 format***. Colour: procon silver.



	MP3	RDS	PTY	40 STATION MEMORY	32 TITLE MEMORY	AUTOREVERSE	TIMER	REMOTE CONTROL
Cirflexx UMS 4201 SPCD	■	■	■	■	■	■	■	■
Cirflexx UMS 4101	■	■	■	■	■	■	■	■
Cirflexx UMS 4110	■	■	■	■	■	■	■	■
Cirflexx UMS 4100	■	■	■	■	■	■	■	■



PTY

40
STATION
MEMORY

30
STATION
MEMORY

20
TITLE
MEMORY

60
TITLE
MEMORY

99
TITLE
MEMORY

TIMER

REMOTE
CONTROL

Varixx UMS 4401 SPCD

Varixx UMS 4200

Vertiga UMS 6300

Varixx UMS 4401 SPCD

65
WATT
PMPO

Micro system with 65 watt PMPO (2 x 5 watt sinus output).

CD player which can read and playback CD-Rs/RWs in CD-

DA and in **MP3 format**. RDS tuner unit, cassette player, 2 loud-

speakers and remote control. 5-way presetted equalizer. 75 Ohm

antenna connection. Display illumination in seven different colours

settable. Housing colour: procon silver. Available: August 2004.



Varixx UMS 4200

65
WATT
PMPO

A complete micro system with 65 watt

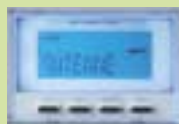
PMPO (2 x 5 watt nominal output), RDS

tuner, CD player (CD-R playability in the CD-DA

format*) and cassette player, 2 speakers and

remote control. 5-way pre-set digital equalizer.

Colour: procon silver or cosmic black.



Find out your personal
favourite between seven
different settings of the
display illumination of Varixx.



The Vertiga is from about 03/2004 also
available in the noble, trendy colour com-
bination procon silver/black.

Grundig micro systems – powerful sound giants with

high-graded, high-performing technology. Clear

and vital sound, no matter for which type of music –

packed in an pleasing unobtrusive design and,

MICRO SYSTEMS

of course, Grundig typical simple to handle as

accustomed. Convince yourself about the greatness

of these micro systems.



You can tune the display
illumination of the Vertiga
to eight different colours.

Vertiga UMS 6300

100
WATT
PMPO

A micro system with 100 watt PMPO (2 x 8 watt

nominal output), RDS tuner, CD player (CD-R/RW

playability in the CD-DA format*), 2 speakers and remote

control. 5-way pre-set digital equalizer. Housing colour:

silver/blue. Solid aluminium front.



Technical Data see page 92.

* Pictogram explanations and legend for CD-R/CD-RW playability: see page 89.



Ovation

80
WATT
PMPO

A micro CD station with the unique Magic Fidelity sound concept. Music pleasure without additional loudspeakers with 80 watt PMPO (12 watt nominal output). CD player (CD-R/RW playability in the CD-DA format*), RDS tuner and remote control. 5-way pre-set digital equalizer. AUX input for the connection of a PC, a notebook or a MP3 player and more. Front cover: aluminium.

MAGIC FIDELITY – THE SOUND CONCEPT OF THE OVATION

Grandiose sound in spite of small dimensions. Magic Fidelity – the „magic“ sound concept made by Grundig. Enjoy saturated room music from radio or CD in an unimagined dynamic and amazing sound performance you only would expect from large, complex loudspeaker systems. A special configuration of the loudspeakers for optimal capacity and excellent sound makes it possible. A bass loudspeaker and two middle resp. treble loudspeakers, each in an own housing and with an own amplifier, are built-in the micro device Ovation. The compactness of Magic Fidelity enables the extravagant design of the Ovation and supplies it with all in all 20 watt music output and a convincing sound, meeting all needs and wishes of this eye-catcher in every respects.



Colour: champagne.



The display illumination of the ovation can be set in 8 different colours and 2 different brightness stages. A dimmer, within these different brightness stages, takes over the automatic ambient light adjustment of the respective brightness stage.



Colour: black.



With it's noble design the Ovation becomes an eye-catcher in every room and suits a modern styled home excellently.



Technical data and additional explanations of Magic Fidelity see page 92.

* Pictogram explanations and legend for CD-R/RW playability: see page 89.



The Mystixx plays back MP 3 files burned on CD-Rs and CD-RWs. Up to 250 tracks can be stored in MP 3 format on one CD, which corresponds to a playing time of up to 11 hours. MP 3 files may contain additional information such as artist, title, etc. – so-called ID3 tags. This information is shown on the 2-line dot matrix display of the Mystixx CDP 9100.



Mystixx CDP 9200

A portable CD player that can read CD-Rs and CD-RWs in CD-DA and MP3 format*. 45 sec. digital anti shock system and 120 sec. digital anti shock system for CDs with MP3 files. The control element for the most important functions is integrated in the earphones cable. A line cable for connection to your HiFi system is included. Housing colour: chrome.

Can also read CDs with MP3 files.



Mystixx CDP 9100

A portable CD player that can read CD-Rs and CD-RWs in CD-DA and MP 3 format*. 40 sec. digital anti shock system for audio CDs and 200 sec. digital anti shock system for CDs with MP 3 files. 5 preprogrammed digital equalizer settings. Dot Matrix Display with two lines for the display of ID 3 tags (s.a.). Housing colours: chrome / blue.

Can also read CDs with MP 3 files.

Technical Data see page 93.

*Legend for CD-R/CD-RW playability: see page 89.



The control element and the LC display of the Planixx CDP 9400 are integrated in the earphones cable.

Mystixx CDP 9400

Portable CD player with a flat, only 17 mm, high housing which can playback CD-R/RW in CD-DA and in MP3 format. 160 seconds digital anti shock system for audio CDs resp. 480 seconds for MP3 CDs. An illuminationable, single lined dot matrix display to display ID3 tags is integrated in the earphone cable as well as the control elements. 5-way presetted digital equalizer. Housing colour: aluminium / blue. Available: August 2004.

Reads also MP3 CDs.



CD-PORTABLES

CD portables make CD sound mobile. When they are easy to use and look good on top of that, then a high fun factor is a sure thing. In addition, the highlight by the Mystixx is its ability to read MP 3 files from recorded CD-Rs and CD-RWs. Have fun!

Mystixx CDP 9410

Portable CD player with a flat, only 17 mm high housing, which can playback CD-R/RW in CD-DA-, MP3- and in WMA format. 160 seconds digital anti shock system for audio CDs, 480 seconds for MP3 CDs and 1,000 seconds for WMA CDs. An illuminationable, 4-lined dot matrix display to display ID3 tags as well as the control elements are integrated in the earphone cable. 5-way presetted digital equalizer. Housing colour: aluminium / black. Available: July 2004.

Reads also MP3- and WMA CDs.



CDP 1400

Portable CD player including random play-back and ultra bass system. The CDP 1400 can read CD-R/RW (CD-DA format)*. Accessory: Stereo earphone. Housing colour: perly white / black. Available: July 2004.



Great sound – CD portables made by Grundig. Ideal for outdoor activities. Nearly all are equipped with the digital anti-shock-systems which can bear a lot. Especially the CDP 4303 with its joggable anti shock and sport headphones with neck clamp and its water-resisted neoprene pouch has been prepared for “extreme situations” at best. But these portable CD players also convince “in everyday life” with their clear and pure music playback.

CD-PORTABLES



CDP 1410
Portable CD player with 45 seconds digital anti shock system. The CDP 1410 can read CD-R/RW (CD-DA format)*. Ultra bass system. Accessory: Stereo earphone and mains- resp. charger unit (for accu operation). Housing colour: yellow / amber. Available: July 2004.

45 seconds digital anti shock system

Technical Data see page 93.
*Legend for CD-R/RW playability:
see page 89.

CDP 1420

Portable CD player with 160 seconds anti shock system. The CDP 1420 can read CD-R/RW (CD-DA format)*. Ultra bass system. Accessory: Stereo earphone, mains- resp. charger unit (for accu operations) and external battery compartment for a playing period up to 40 hours. Housing colour: chorme / blue. Available July 2004.

160 seconds digital anti shock system



Due to an external battery compartment of the Planixx and the CDP 1420 the net-independent play-time of both players have been extended extremely.



Planixx CDP 3000 slim
Portable CD player with an ultra flat 18 mm slime line design inclusive aluminium cover. Suitable for outdoor sporting activities due to its joggable anti shock system¹⁾. The Planixx CDP 3000 can read CD-R/RW (CD-DA format)*. 5-way presetted digital equalizer. Dynamic bass boost. Control elements and LC display are inserted in the ear-phone cable. Accessory: practical belt-pouch, powerful sport headphone inclusive neck clamp for a safe hold, mains- resp. charging unit (for accu operations), 2 Ni-Mh flat accus and external battery compartment for a playing period up to 55 hours. Housing colour: Aluminium. Available: July 2004.



- ¹⁾ Joggable anti shock system inserted in the Planixx, supplies the music playback without any interruptions also under extreme circumstances such as by sporting activities. The joggable anti shock is equipped with:
- a signal processor which recognises the data of the CD correctly even by uneven rotations.
 - a laser control system which controls the reading track permanently and corrects errors at once even by minor changes.
 - a digital 45 sec. memory which stands in promptly in the event of extraordinary hard buffets

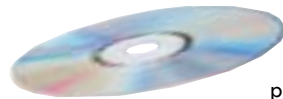




Freaxx 50

Freaxx 40

Freaxx 30



Powerful, full sound in a CD
player, cassette player and radio

tuner ... packaged in a compact and light-weight

CD RADIO RECORDER

housing ... and with an interesting and imaginative

outfit. These CD Radio Recorders from Grundig have

everything they need to bring you pure fun. And the

Freaxx 50 is able to read and play MP 3 files stored

on CD-Rs and CD-RWs.

Freaxx 50

The CD player of this CD radio recorder can read and play CD-Rs/CD-RWs in the CD-DA and the MP3 format*. Up to 250 tracks can be stored in MP3 format on one CD which amounts to a playtime of up to 11 hours. Otherwise technically equipped as the Freaxx 40.



Freaxx 30

CD radio recorder with PLL synthesizer tuner and 30 station memory. CD Player that can read CD-Rs/CD-RWs in the CD-DA format* and with 20 title memory. Ultra Bass System. Colours: chrome or chrome/royal blue.



Freaxx 40

CD radio recorder with strong sound dynamics due to Bass Reflex System, Surround Sound, volume dependent Dynamic Bass System, and 3-way Digital Equalizer. PLL synthesizer tuner with 30 station memory. CD Player that can read CD-Rs/CD-RWs in the CD-DA format* and with 20 title memory.

Remote control for the most important functions. Colour: chrome.



Technical Data see page 94.

*Pictogram explanations and legend for CR-R/RW playability:
see page 89.



30
TITLE
MEMORY

21
TITLE
MEMORY

20
TITLE
MEMORY



20
STATION
MEMORY

U B S
ULTRA
BASS
SYSTEM

Freaxx 20

Freaxx 10

Freezz 20

Freezz 10

Freaxx 10

CD radio recorder with an extraordinary housing in a chrome coloured soft design. CD player with 21 title memory and CD-R/RW playability in the CD-DA format*.



Two further members of the Freaxx-family with their match-

less optic. These devices are a catch for the eyes

CD RADIO RECORDER

wherever you go! Furthermore the small, light and

handy CD radio recorders Freezz include everything

you need to enjoy good entertainment. Music and

information out of the tuner, CD player and cassette

drive – wherever you are and at any time.

Freaxx 20

CD radio recorder with strong sound. The CD player can read and play CD-Rs and CD-RWs in the CD-DA format*. 20 title memory. Ultra Bass System. Colours: chrome or ambea blue/chrome.



Freezz 10

The CD player of this CD radio recorder can read and play CD-Rs and CD-RWs in the CD-DA format*. 30 title memory. Ultra Bass System. Colour: chrome.



Freezz 20

CD radio recorder with PLL synthesizer tuner and 20 station memory. CD player with CD-R/RW playability in the CD-DA format* and 21 title memory. Ultra Bass System. Colours: chrome or ebony black.



Technical Data see page 94.

*Pictogram explanations and legend for CR-R/RW playability:
see page 89.



RR 276

Mono radio recorder for FM and MW (AM) reception. Colour: dark-grey.

RR 316

Tuner with FM and MW (AM). Cassette player with One Touch Recording and fully automatic tape-end switch off. Ultra Bass System. Colour: dark-grey.



Also available in nautic blue.



Grundig radio recorders will convince you by their design and thrilling sound, are uncomplicated and thus easy to operate. They are multi-functional, robust and should be in every household. Good music and entertainment – when ever you want and for every occasion.

RADIO RECORDERS



Yacht Boy P 2000

Yacht Boy 80

Yacht Boy 50

Yacht Boy 10



Yacht Boy 10

Features include 9 x SW from 3.90 to 21.85 MHz. The chrome coloured housing measures 15 x 8.5 x 3.4 cm and is 250 g light (without batteries). Genuine leather protective case included in delivery.



Yacht Boy 50

World receiver with 7 x SW from 5.90 to 17.90 MHz. 2 international times are adjustable. Multifunctional LC display. Timer functions. Dimensions 12.8 x 8.7 x 3.3 cm and 270 g weight (without batteries). Genuine leather protective case included in delivery.



Yacht Boy P 2000

Sterling silver World Receiver **Design by F. A. Porsche.** Frequencies and SW bands can be directly keyed in. 2 international times are adjustable. 14.2 x 9.2 x 3.5 cm small and 330 g light (without batteries).

Your direct link home. Grundig World

Receivers are the ideal travel companions.

WORLD RECEIVERS

Thanks to the handy and small shape and the light weight, they fit in any luggage bag.

Or simply take the whole world home to you

on short wave. Discover the world – with

Grundig World Receivers.



Grundig Yacht Boys will be delivered with a leather protective case.



Yacht Boy 80

Chrome coloured world receiver with AM (MW) double super technology. 14 x SW from 1.70 to 29.90 MHz. Frequencies and SW bands can be keyed in directly. Single side band reception (SSB). PLL frequency synthesizer. 18.4 x 12 x 4 cm small and 510 g light (without batteries). Genuine leather protective case and earphones included in delivery.

Technical Data see page 95.

Pictogram descriptions
see page 89.



Concert Boy 80

Concert Boy 60

Ocean Boy 70

PORTABLE RADIOS

Enjoy it! Great devices for great reception. For entertainment at home or as a portable pocket radio.

These Grundig radios always impress by their sensible features, clear reception, good sound through great speakers, by their high quality and their ease of operation.



The Ocean Boy 70 has been awarded at the „iF Design Awards 2004“ for its unique and remarkable design.



Ocean Boy 70

PLL synthesizer radio for FM, MW (AM), LW and SW reception. PLL frequency synthesizer with 20 station memory. Illuminable multifunctional LC display. Ring-like grip which also can be used as console. Wake-up and timer functions. Dimensions: 21 x 11.5 x 6.3 cm. Housing colour: chrome.



Concert Boy 60

Finely shaped radio for FM, MW (AM), LW and SW (5.80 – 6.40 MHz and 6.80 – 18.50 MHz) reception. Dimensions: 26 x 15 x 7 cm. Housing colour: chrome.

Concert Boy 80

A FM RDS radio that also can receive MW (AM), LW and SW. PLL frequency synthesizer with 10 station memory for each range (40 totally). Illuminable multifunctional LC display with week-day display. RDS time synchronisation. Wake-up and timer functions. Dimensions: 26 x 15 x 7 cm. Housing colour: chrome.



Technical Data see page 95.

Pictogram descriptions see page 89.

Music Boy 51

FM radio with PLL frequency synthesizer and 10 station memory. Timer functions. Mains and battery operation. Colour: chrome.



Music Boy 50

Radio for FM, MW (AM) and SW (5.8 to 18.5 MHz) reception. Mains and battery operation. Colour: chrome.

PORTABLE RADIOS

Radios strong in reception in beautifully formed housings that set optical accents and can be integrated extraordinarily well into modern living surroundings. Equipped with everything one needs for comfortable radio listening. And the well made large loudspeakers make sure that the positive reception characteristics can be heard.



Hydros

Radio for the shower with protection against water spray. PLL synthesizer tuner and 4 station memory. Integrated clock with timer functions. Comes equipped with a base to stand upright and with a ring eyelet for hanging. Housing colour: white/blue.

Music Boy 40

Technically like the Music Boy 50, but with a different design and an ambea blue coloured housing.



City Boy 31

170 g light, battery-operated FM/ MW (AM) radio in chome.



City Boy 50

Chrome coloured pocket radio with tuner part for FM and AM (MW) reception. Ultra Bass System. Earphones included in delivery.



City Boy 52

Small and compact radio for on the move. PLL synthesizer tuner with 10 station memory. Weighs only 90 g (without batteries). Earphones included in delivery. Housing colours: chrome or ambea blue.



Noctus
Sonoclock 755
Sonoclock 54

RADIO-CONTROLLED CLOCK RADIOS



Automatic time setting precise to the second by the radio transmitter

DCF-77. That means that you do not even have to switch from summer

to winter time anymore. Let these clock radios, that will also amaze you by their

appearance, wake you at the very second you want.

Noctus

Radio-controlled FM clock radio with top features such as RDS and traffic report evaluation system. 10 station memory. Voice recording – digital memory for one message/notice (max. 20 sec.). 2 wake-up times can be set for each day with different wake-up modes (radio, recorded melodies, message/notice or alarm signal). For each day of the week one or both of these wake-up times can be programmed. Dynamically increasing wake-up volume. Date and weekday display. Automatic brightness control (dimmer). Housing colour: chrome.

Digital speech memory for max. 20 seconds.



The extravagant tower look in connection with a large display and control elements located underneath a cover gives the Noctus a significant exterior, that does justice to the high quality features of this clock radio.



Sonoclock 53

Radio-controlled FM/MW (AM) clock radio with an extraordinary display form and a big, well legible time display. Colour: chrome.



Sonoclock 54

Radio controlled UKW-radio clock including beamer to project the time on the wall or ceiling. PLL-frequency synthesizer with 10 station memory. Weekend cancellation function i.e. the alarm stand-by can be shut off during the weekend. 2 wake-up times adjustable. Variable short-time wake-up function (10 – 120 min.). Display of the week-day. Automatical brightness adjustment (dimmer). Housing colour: chrome.

Technical Data see pages 96 und 97.

Pictogram descriptions see page 89.



Sonoclock 52

FM clock radio with Jumbo LED display, forward and reverse time settings and two wake-up times. Wake-up with alarm, radio or prestored idyllic natural sounds (waves, rooster etc.). Automatic brightness control (dimmer). Colour: chrome.



Sonoclock 51

Clock radio with forward and reverse time settings, 2-way brightness control for the display and two wake-up times. Colour: chrome.



Sonoclock 30

A small and compact FM/MW (AM) clock radio with automatic sleeptime function (up to 119 min.). Rewaking at 9-minute intervals. Colours: chrome, queens blue or chrome/blue.



Technical Data see page 97.



Sonoclock 55

Mains-independent, battery-operated FM radio with analog clock with blue backlight colour. Colour: chrome.



Grundig Sonoclocks – different in their appearance, different in their features. Their procon silver paint finish and their unusual form and design turn these clock radios into an optical highlight. And provide the current time and the best

CLOCK RADIOS

entertainment throughout the house with the radio function.

Given the large variety, everyone is sure to find his favourite here.



Sonoclock 50

Chrome coloured FM/MW (AM) clock radio with an extraordinary display form and a big, well legible time display..



Sonoclock 420

Clock radio with PLL frequency synthesizer and 10 station memory. Weekend cancellation function which means you can have special weekend wake-up settings. 2 wake-up time settings. Dynamically increasing alarm volume. Colour: chrome.



Sonoclock 60

Extraordinary FM clock radio with PLL frequency synthesizer and 15 station memory. 2 wake-up times can be set. 2-way brightness adjustment of the display. External snooze key with a 50 cm long cable (roll-up mechanism). Available from about 01/2004.

CLOCK RADIOS

Start the day with a smile. Grundig Sonoclocks make getting up easier and more pleasant. Waking with music or alarm signal. Elegant and user-friendly, these clock radios present a perfect harmony of form and function – too good just to wake up to.



Discalo

An impressive styled stereo clock radio with integrated CD player. Can read CD-R/RW (CD-DA format)*. Wake-up with music from CD, radio or alarm signal. 2 wake-up times can be set. 3-times switchable night illumination (off, dark, light) in the transparent base. Automatic brightness control for the display. Headphones socket. Colour: black.



Sonoclock 620

An optically appealing clock radio with RDS and EON for FM reception. Automatic current time by RDS-CT. Weekend cancellation function which means you can have special weekend wake-up settings. 2 wake-up times settings. Dynamically increasing alarm volume. 10 station memory. Illuminable display. Colour: chrome.

Technical Data see pages 96 und 97.

* Legend for CD-R/RW playability: see page 89.

Sonoclock 690

This white FM kitchen radio with PLL frequency synthesizer and 10 station memory is prepared for mounting under a kitchen cupboard. Time adjustment either forward or reverse. Timer (kitchen timer or short time alarm) can be set up to 300 minutes. Dynamically increasing alarm volume.



Accessories for mounting under a kitchen cupboard are included in delivery of Sonoclock 890 and Sonoclock 690.



Grundig kitchen radios with modern designs in classical white or with a solid aluminium front cover. Regardless of

CLOCK RADIOS

whether these Sonoclocks are set on top of a counter or built-in under a cupboard, they are an optical highlight in every tastefully decorated kitchen. The excellent reception of the FM tuner will entertain you with good music and interesting information from the preset stations whenever you are in the kitchen.



Sonoclock 890

Clock radio with solid, high quality aluminium front cover. FM reception with RDS, 10 station memory. Current time sets automatically with RDS-CT. Timer setting up to 300 minutes. Dynamically increasing alarm volume.

Technical Data see page 96.

Pictogram descriptions see page 89.



Sonoclock 890

Sonoclock 690

PLASMA AND LCD COLOUR TELEVISION SETS						Tharus 110 PW 110-9410 TOP	Fine Arts LCD-Vision 76 LCDW 76-8410 TOP	Tharus 30 LW 76-9410 Dalby	Tharus 26 LXW 68-9410 Dolby	Tharus 51 LCD 51-9410 Dolby	Xenia 32 LXW 82-7410 TOP	Xenia 26 LW 68-7410 TOP
Catalog page		15	14	16	17	18	19	16	16	17	18	18
Picture Display Screen diagonal 16:9 wide-screen format Switching to 4 different formats Response time Contrast ratio Viewing angle Brightness Resolution max. Digital Reference Plus technology Clear Color Screen coating Increased colour contrast (CIT) Picture definition storable / Comb filter		PlaneVision Plasma Display 42 / 106	PlaneLux Active Matrix TFTLC Display 30 / 76	PlaneLux Active Matrix TFTLC Display 76 / 76	PlaneLux Active Matrix TFTLC Display 20 / 51	Clear Color Screen 81 / 81	Clear Color Screen 66 / 59	PlaneLux Active Matrix TFTLC Display 66 / 59	PlaneLux Active Matrix TFTLC Display 20 / 51	PlaneLux Active Matrix TFTLC Display 20 / 51	Clear Color Screen 81 / 81	Clear Color Screen 66 / 66
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		approx. °	approx. °	approx. °	approx. °	approx. °	approx. °	approx. °	approx. °	approx. °	approx. °	approx. °
		170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal
		500	500	500	500	500	500	500	500	500	500	500
		WXGA 852 x 480	WXGA 1280 x 768	WXGA 1280 x 768	WXGA 1280 x 768	WXGA 1280 x 768	WXGA 1280 x 768	WXGA 1280 x 768	WXGA 1280 x 768	WXGA 1280 x 768	WXGA 1280 x 768	WXGA 1280 x 768
Video On timer / Sleep timer Programme memory TV / AV Videotext / Memory TV standards		•	•	•	•	•	•	•	•	•	•	•
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Infrared remote control Sound Stereio / 2-tone reception Music / nominal output Magic Fidelity / Virtual Dolby Surround Headphones volume separately adjustable Headphones tone channel selection for 2-tone reception Loudspeakers Connections / sockets S-video input (flouident) Euro-AV socket / RGB and S-video suitable Wireless AV socket Cinch-AV sockets Headphones socket (Ø 3.5 mm) YUV sockets (Progressive Scan) DVI VGA interface for PC Wireless picture and sound transmission upgradeable Mains unit Voltage (regulated), frequency 50/60 Hz AC/DC adaptor Power consumption max. / standby Weight approx. kg Dimensions (W x H x D) approx. cm Accessories (included in delivery) Accessories (console)		•	•	•	•	•	•	•	•	•	•	•
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PLASMA AND LCD COLOUR TELEVISION SETS						AMIRA 30 LW 76-9401 TOP	AMIRA 20 LCD 51-9401 TOP	AMIRA 17 LW 45-9401 TOP	AMIRA 45 LCD 45-9410 TOP	AMIRA 38 LCD 38-9410 TOP	ARGANTO 23 LW 60-6410 TOP	ARGANTO 17 LW 45-6410 TOP
Catalog page		24	24	24	25	19	19	19	19	19	19	19
Picture Display Screen diagonal 16:9 wide-screen format Switching to 4 different formats Response time Contrast ratio Viewing angle Brightness Resolution max. Picture definition storable / Comb filter Electronics Intelligent user concept (OSD) Automatic tuning system AIS euro plus Picture-in-picture (1-tuner-PIP) PIP text Combination lock On timer / Sleep timer Programme memory TV / AV Videotext / Memory TV standards		Active Matrix TFTLC Display 51 / 51	Active Matrix TFTLC Display 43 / 43	Active Matrix TFTLC Display 43 / 43	Active Matrix TFTLC Display 38 / 38	Active Matrix TFTLC Display 58 / 58	Active Matrix TFTLC Display 43 / 43	Active Matrix TFTLC Display 58 / 58	Active Matrix TFTLC Display 38 / 38	Active Matrix TFTLC Display 58 / 58	Active Matrix TFTLC Display 43 / 43	Active Matrix TFTLC Display 43 / 43
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		170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	170 vertical, 170 horizontal	160 vertical, 160 horizontal	160 vertical, 160 horizontal
		400	400	400	300	300	400	400	400	400	400	400
		WXGA 1280 x 768	WXGA 1280 x 768	WXGA 1280 x 768	WXGA 640 x 480	WXGA 1024 x 768	WXGA 1280 x 1024	WXGA 1280 x 1024	WXGA 1024 x 768	WXGA 1280 x 1024	WXGA 1280 x 1024	WXGA 1280 x 1024
Electronics Intelligent user concept (OSD) Automatic tuning system AIS euro plus Picture-in-picture (1-tuner-PIP) PIP text Combination lock On timer / Sleep timer Programme memory TV / AV Videotext / Memory TV standards		•	•	•	•	•	•	•	•	•	•	•
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Infrared remote control Sound Stereio / 2-tone reception Music / nominal output Headphones volume separately adjustable Headphones tone channel selection for 2-tone reception Loudspeakers Connections / sockets S-video input (flouident) Euro-AV socket / RGB and S-video suitable Wireless AV socket Cinch-AV sockets Headphones socket (Ø 3.5 mm) YUV sockets (Progressive Scan) DVI VGA interface for PC Wireless picture and sound transmission upgradeable Mains unit Voltage (regulated), frequency 50/60 Hz AC/DC adaptor Power consumption max. / standby Weight approx. W Dimensions (W x H x D) approx. cm Accessories (included in delivery) Accessories (console)		•	•	•	•	•	•	•	•	•	•	•
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¹⁾ Data not available a time of printing.

The innovative Grundig TV **MEGATRON** concept for super sharp and brilliant pictures. With anti-static CCS picture coating, recognizable due to the light violet colouring on the picture tube surface. The television pictures are richer in contrast and the picture tube itself stays dust free.

The Megatron Plus picture **MEGATRON PLUS** tube concept contains the perfect teamwork of optimised digital signal processing and the latest display technology. The result: more sharp, more brilliant and more contrast absolutely naturally. Megatron Plus stands for pin sharp, brilliant and wealth in contrast pictures – in all details.

Large-screen flicker-free 100/120 Hertz technology means television with enhanced picture quality. Every television picture is composed of half pictures by a rapid electronic beam. This happens at 50/60 times per second in conventional televisions. A Grundig 100/120 Hertz TV set writes the half pictures 100/120 times per second on the screen, a speed imperceptible to the naked eye. That's why you see a flicker-free and sharp picture.

Grundig 100/120 Hertz technology of the Reference Class with digital frame memory. In addition to large-area flickering, the nuisance of line flickering, especially those visible horizontal lines, disappears.

Spatial sound without additional loudspeakers. A Dolby® processor and an amplifier integrated in the television produce a spatial sound that could otherwise be realized only over four channels.

Two pictures can be shown on a 16:9 TV. The screen can be divided so that the programme currently tuned can be followed on one half, while one can flick through the videotext of the same channel on the other half.

With Picture-in-picture, you can superimpose a miniature picture from an external AV source or another terrestrial channel (2-tuner PIP) additionally on the screen.

Tele-/videotext offers a lot of information to different topics such as: programme, sports, weather etc. provided by the broadcasting service.

On initial installation, ATS (Automatic Tuning System) scans all channels for receivable broadcasters. These can then be stored in your desired sequence.

Automatic programming for convenient initial installation of the TV set with sorting a in a fixed sequence.

16 : 9 COLOUR TELEVISION SETS 100 HERTZ	ARGANTO 40 RPW 102-6410/8 TOP	XEDANCE 82 FLAT MFW 82-3310/7 DOLBY	CINARO 82 FLAT MFW 82-5410/7 DOLBY	ELEGANCE 82 FLAT MFW 82-2510/8 DOLBY
Catalog page Picture Picture tube Picture tube diagonal 4 different format switchings Space velocity modulation (SYM) / Dynamic focus 100 Hz technology / Digital Reference technology Increased colour contrast (CII) Picture definition storable / Comb filter	22/23 ReProjection 102 / 102 • – •/• • •/• •	25 MEGATRON Plus Real Flat 82 / 76 • •/• •/• • •/– •/–	26 MEGATRON Plus Real Flat 82 / 76 • •/• •/• • •/– •/–	29 Real Flat 82 / 76 • •/• •/• • •/– •/–
Electronics Automatic tuning system ATS euro plus Multi picture display (Mosaic Picture) PAT – split screen (picture/text) Picture-in-picture (2-tuner-PIP) PAF – split screen (picture/picture) PAT – picture/picture and text at the same time Combination lock Programme memory TV / AV	•100 BG, I, DK/K', L/L', PAL, SECAM via AV, NTSC 4.43 MHz, via AV, A2 8/67/0/K', Nicam 3.58 MHz (BG, I) 8.55 MHz (I) RC 40 C	•2048 99 / 4 99 / 4 BG, DK/K', PAL, SECAM, NTSC 4.43 MHz, via AV, NTSC 3.58 MHz, A2 for 8/6/G/ D/K', Nicam 3.58 MHz (BG, I) Tele-Flat 100 C	•1024 99 / 4 99 / 4 BG, DK/K', PAL, SECAM, NTSC 4.43 MHz, via AV, NTSC 3.58 MHz, A2 for 8/6/G/ D/K', Nicam 3.58 MHz (BG, I) Tele-Flat 100 C	•512 99 / 4 99 / 4 BG, DK/K', PAL, SECAM, NTSC 4.43 MHz, via AV, NTSC 3.58 MHz, A2 for 8/6/G/ D/K', Nicam 3.58 MHz (BG, I) Tele-Flat 100 C
TV standards				
Infrared remote control				
Sound Stereo / 2-tone reception Music / nominal output Virtual Dolby Surround Headphones volume separately adjustable Headphones tone channel selection for 2-tone reception Loudspeakers	•/• W 2-channel 22 / 14 – (stereo wide) – 2 wide band, front	•/• 2-channel 30/15 • • • 2 tweeter + 2 wide band, front	•/• 2-channel 30/15 • • • 2 tweeter + 2 wide band, front	•/• 2-channel 30/15 • • • 2 tweeter + 2 wide band, front
Connections / Sockets Video input (fixed) for camera recorder Euro AV socket / Video output CinchAV (camera recorder) / Headphones socket (Ø 3.5 mm) Audio stereo output to HiFi-system	• (front + rear) 3x / 1 • (side + rear) / • •	• 3x / 1x •/• •	• 3x / 1x •/• •	• 3x / 1x •/• •
Main unit Voltage (regulated), frequency 50/60 Hz Power consumption max. / standby	V, 220 - 240 W 230 / 1	190265 200 / 5	190265 200 / 5	190265 200 / 4
Weight approx. kg	46	53	53	56
Dimensions (W x H x D)	94 x 90 x 49	92 x 56.8 x 54.5	80 x 58.2 x 55	89 x 54.2 x 55.2
Accessories (console)	TV stand Arganto 40	TVS 8201	TVS 8272	TVS Elegance 82
Dimensions console (W x H x D)	99 x 32.5 x 47.5	92 x 44 x 49	80 x 41 x 45	87 x 51 x 55
Technical data supplied without liability.				

100 HERTZ COLOUR TELEVISION SETS				CINARO 72 FLAT MF 72-5410/7 TOP	ARCANCE 72 FLAT MF 72-2410/7 TOP	SEDANCE 70 ST 70-2410/7 TOP	SEDANCE 70 ST 70-2010 TOP
Catalog page				27	28	31	30
Picture Picture tube Space velocity modulation (SVM) / Dynamic focus 100 Hz technology / Digital Reference technology Increased colour contrast (CTI) Picture definition storable / Comb filter Electronics Automatic tuning system ATS euro plus Multi picture display (Mosaic Picture) PAT – splitted screen (picture/text) 2-tuner-PiP PAF – splitted screen (picture/picture) PAF – picture/picture and text at the same time Combination lock Programme memory TV / AV Videotext / Memory •/2048 BG, DK/K', PAL, SECAM, NTSC 4.43 MHz, via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TV standards Infrared remote control Sound Stereo / 2-tone reception Music / nominal output Loudspeakers Connections / Sockets S-video input (floident) for camera recorder Euro-AV socket / S-video suitable Audio stereo output for HiFi system Cinch-AV (camera recorder) / Headphones socket (Ø 3.5 mm) Mains unit Voltage (regulated), frequency 50/60 Hz Power consumption max. / standby Weight approx. W 185 / 5 approx. kg 44 Dimensions [W x H x D] approx. cm 80 x 58.8 x 48.7 Accessories (console) Universal TV table 1 Dimensions console [W x H x D] approx. cm 93 x 34 x 57				MEGATRON Real Flat 72 / 68 •/• •/• •/• •/• • • • • • •/2048 BG, DK/K', PAL, SECAM, NTSC 4.43 MHz, via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TelePilot® 160 C •/• W 2 wide band, front • 3x / 1x • •/• V- approx. W 185 / 5 approx. kg 44 approx. cm 80 x 58.8 x 48.7 Universal TV table 1 approx. cm 93 x 34 x 57	MEGATRON Real Flat 72 / 68 •/• •/• •/• •/• • • • • • •/512 BG, DK/K', PAL, SECAM, NTSC 4.43 MHz, via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TelePilot® 160 C •/• 2-channel 30/15 2 wide band, front • 3x / 1x • •/• 190/265 185 / 5 44 80 x 58.2 x 49.3 TVS 9272 80 x 41 x 45	Real Flat 72 / 68 •/• •/• •/• •/• • • • • • •/512 BG, DK/K', PAL, SECAM, NTSC 4.43 MHz, via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TelePilot® 160 C •/• 2-channel 30/15 2 wide band, front • 3x / 1x • •/• 190/265 175 / 4 35 80 x 57.6 x 49.5 TVS Arcanee 72 49 x 49 x 46	Black Line FX 70/66 •/• •/• •/• •/• • • • • • •/9 BG, DK/K', PAL, SECAM, NTSC 4.43 MHz, via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TelePilot® 160 C •/• 2-channel 20/10 2 tweeter + 2 wide band, front • 2x / - • •/• 190/265 175 / 4 31 73 x 55 x 45.7 TVCTX 12 49 x 49 x 46
Technical data supplied without liability.							

50 HERTZ COLOUR TELEVISION SETS				ELEGANCE 55 FLAT MF 55-2501 TOP	SEDANCE 55 ST 55-2500 TOP	DAVIO 55 T 55-4201 TOP	DAVIO 51 T 51-4201 TOP
Catalog page				28	30	32	33
Picture Picture tube Picture tube diagonal Increased colour contrast (CTI) Picture definition storable Electronics Automatic tuning system / ATS euro plus Combination lock Sleep timer / Hotel mode Programme memory TV / AV Videotext / Memory •/9 BG, DK/K', PAL, SECAM, NTSC 4.43 MHz, A2 via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TV standards Infrared remote control Sound Stereo / 2-tone reception Music / nominal output Loudspeakers Connections / Sockets S-video input (floident) for camera recorder Euro-AV socket / S-video suitable Cinch-AV (camera recorder) Headphones socket (Ø 3.5 mm) Mains unit Voltage (regulated), frequency 50/60 Hz Power consumption max. / standby Weight approx. W 190/265 approx. kg 31 Dimensions [W x H x D] approx. cm 73 x 55 x 45.7 Accessories (console) TVCTX 12 Dimensions console [W x H x D] approx. cm 49 x 49 x 46 cm				Black Line FX Real Flat 55 / 51 - • • • •/• •/• •/10 BG, DK/K', PAL, SECAM, NTSC 4.43 + 3.58 MHz via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TelePilot® 160 C •/• W 2 wide band, front • 2x / 1x • • 185 - 265 50 / 4 22.2 61 x 44.7 x 44.7 TVS 5510 / 5511 59 x 37 x 49	Black Line FX 55 / 51 - • •/• •/• •/10 BG, DK/K', PAL, SECAM, NTSC 4.43 + 3.58 MHz via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TelePilot® 160 C •/• 2-channel 8 / 4 2 wide band, front • 2x / 1x • • 185 - 265 50 / 4 20 59.3 x 45.4 x 49.7 TVS 5510 / 5511 59 x 37 x 49	Black Matrix 51 / 48 - • • •/• •/7 BG, PAL, über AV: NTSC 4.43 MHz via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TelePilot® 751 C - 5 / 2.5 1 wide band, front - 1x / - • • 190 - 265 50 / 4 22.3 51.8 x 48.7 x 47.1 TVS 5510 / 5511 59 x 37 x 49	Black Matrix 51 / 48 - • • •/• •/7 BG, PAL, über AV: NTSC 4.43 MHz via AV: NTSC 3,58 MHz, A2 for B/G/ D/K, Nicom 5.85 MHz TelePilot® 751 C - 5 / 2.5 1 wide band, front - 1x / - • • 190 - 265 50 / 4 19.3 51.7 x 48.7 x 47.1 TVS 5510 / 5511 59 x 37 x 49
Technical data supplied without liability.							

PORTABLE COLOUR TELEVISION SETS		Davio 37 P 37-4201 TOP	
Catalog page		33	
Picture Picture tube Picture tube diagonal Picture definition storable Electronics Automatic tuning system ATS euro plus Combination lock Sleep timer / Hotel mode Programme memory TV / AV Videotext / Memory •/7 BG, PAL, via AV: NTSC 4.43 MHz TV standards Infrared remote control Sound Music / nominal output Loudspeakers Connections / Sockets Euro-AV socket / S-video suitable Cinch-AV (camera recorder) Headphones socket (Ø 3.5 mm) Antenna [75 Ω coaxial] / Telescope antenna Mains unit Voltage (regulated), frequency 50/60 Hz Power consumption max. / standby Weight approx. W 40 / 4 approx. kg 10.3 Dimensions [W x H x D] approx. cm 37.1 x 37 x 36.3		Black Matrix 14 / 37 • • •/• 99 / 2 •/7 BG, PAL, via AV: NTSC 4.43 MHz TelePilot® 751 C W 5 / 2.5 1 wide band, front 1x / - • • 190 - 265 40 / 4 10.3 37.1 x 37 x 36.3	
Technical data supplied without liability.			

SAT-TV RECEIVERS DIGITAL		DTR 2420 - DIGITAL TERRESTRIAL RECEIVER	DSR 2410 - DIGITAL SATELLITE RECEIVER
Catalog page		37	36
System features			
Reception of digital TV receivers	via house or room antenna	1000	via satellite antenna
TV / radio programs			4000 preset channel table f. 30 satellite positions for Astra 19.2°, Hotbird, Turksat 1 C
EGF (technical program guide)			
Evaluation of program attending data			• over EPG incl. Program overview (Bt based)
Dynamic PTVevaluation			
Adjustment – picture formats:			4: 3, 16: 9, letter box, pan scan
Transmission VPS signals and videotext (VBI)			Mono, Dual Mono, Stereo, Joint Stereo
Channel search mode / program list edit			• Automatic and manual / •
Personal set of a program list			•
Modulation			–
Demodulation / Symbol rate MS/s			COFDM: 2 / 8 I; QPSK / 16 / 64 QAM
FEC (forward correction autom. perception function)			1/2, 2/3, 3/4, 5/6, 7/8
Input frequency range (MHz)			67 - 862 MHz & UHF
Input level / resistor			– 84,1 dBm bis – 35 dBm (16 QAM, 2/3) / 75 Ohm
Antenna supply			5 V / 30 mA for active antennas
INB-supply (V) / INB Power (mA)			–
DISEqC / 22 kHz			1.0 / •
Video features			
MPEG profile			MPEGML
Decode of data rate			up to 15 MBit/sec
Resolution (pixel)			720 x 576
On Screen Display (OSD)-colours			16
Audio features			
MPEG profile			MPEG 2 layer I&II (Musicam)
AC 3-output			S/P DIF
Digital Analog Converter (DAC)			24 Bit
Software			
Teletext / subtitle			• / •
Software update - download over			Antenna / RS 232
Last Station Memory			from standby mode outgoing
Sleep timer / Timer memory cell			• / 10 x free
Volume control / mute function			• / •
OSD-language			D, F, E, I, GB, FIN, TR
Display			
LED display			Standby, Signal Power, Signal TV, Signal Radio
Processor			
CPU			32 Bit
Memory			8 MB RAM, 1 MB Flash
Connections			
Antenna- / SAT input			coaxial / –
Antenna output			coaxial
Serial interface			RS 232
TV Scart output, XUV, RGB, Y/C, FBAS			•
VCR Scart output / input			•
Audio output			2x Cinch for stereo L+R
Dolby Digital output (AC 3)			1x Cinch
Infrared remote control			TP 765 S (4 plains: SAT, TV, DVD, A/VReceiver)
Mains supply			
Mains voltage, 50 Hz			230 V
Power consumption max. W / standby			10 / < 4
Weight ca. kg			1.8
Dimensions ca. cm (Width x Height x depth)			36 x 6 x 26,6
Technical data supplied without liability.			

SAT-TV RECEIVERS DIGITAL		Cinia DTR 2280 S
Catalog page		36
Reception		DVB-S (Satellite)
TV / radio channels		2000
Reception range		MHz 950 – 2150
Input level		dBm -25 to 65
INC supply		V/mA 0, 14, 18 / 500
Switching signal		kHz 22
DISEqC		1.0
Display		LED
Channel search		Manual or automatical
Last Station Memory		For the channel tuned before last turnoff
Timer		8
Videotext		Fadein in the vertical space
Modulation		QPSK
Symbol rate variable		MS/sec 2 – 43, MCPC, SCPC
Software download		Via satellite
MPEG decoding		
MPEG 2		Main level / Main Profile
Video	pixel x lines x frames/sec	720 x 576 x 25
Audio	kHz	MPEG 1 layer 1+2, 32,44,1/48
Processor		
CPU		bit 32
Memory		8 MB SDRAM, 2 MB Flash
Connections		
Input SAT		1 F-connector
Output SAT		1 F-connector
Serial interface		RS 232
EUROAV (TV, VCR)		2 x
Audio output		2 x Cinch for stereo L + R
Infrared remote control		TP 760 S
Main unit		
Mains voltage, frequency 50 Hz		V- 110/230
Power consumption max./ standby		approx. W 12 / < 9
Weight		approx. kg 2,0
Dimensions (W x H x D)		approx. cm 33,5 x 6,0 x 27,5
Technical data supplied without liability.		

DVD-PLAYER

DVD PLAYERS		LIVANCE GDP 2400	GDP 3300	CINIO GDP 5240	GDP 1100
Catalog page					
Playable disc formats 12 / 8 cm					
		38	40	39	40
Video format DivX (certificated) / MPEG 4		DVD-Video / DVD-R / DVD+RW / DVD-RW / DVD-R / DVD+R / DivXCD / Audio-CD / CDR / CD-RW / Video CD (2.0) / SVCD / MP3 / JPEG / KodakPictureCD / WMVA	DVD-Video / DVD-R / DVD+RW / DVD-RW / DVD-R / DVD+R / Audio-CD / CDR / CD-RW / Video CD (2.0) / SVCD / MP3 / JPEG / KodakPictureCD / WMVA	DVD-Video / DVD+RW / DVD-RW / DVD-R / DVD+R / Audio-CD / CDR / CD-RW / Video CD (2.0) / SVCD / MP3 / JPEG / KodakPictureCD	DVD-Video / DVD+RW / DVD-RW / DVD-R / DVD+R / Audio-CD / CDR / CD-RW / Video CD (2.0) / SVCD / MP3 / JPEG / KodakPictureCD
Picture Viewer		• /JPEG / KodakPictureCD	• /JPEG / KodakPictureCD	• /JPEG	• /JPEG
Laser scan		2 Laser (1 x CD, 1 x DVD)	2 Laser (1 x CD, 1 x DVD)	2 Laser (1 x CD, 1 x DVD)	2 Laser (1 x CD, 1 x DVD)
PAL / NTSC playback		•/•	•/•	•/•	•/•
Video					
10 bit / 27 MHz video D/A converter		•	•	•	•
Horizontal resolution (DVD)		More than 500 TV lines	More than 500 TV lines	More than 500 TV lines	More than 500 TV lines
Progressive Scan PAL / NTSC		•/•	•/•	•/•	•/•
Digital video optimizing for still picture / Block noise reduction		•/•	•/•	•/•	•/•
Audio					
D/A converter		96 kHz / 24 Bit	96 kHz / 24 Bit	192 kHz / 24 Bit	96 kHz / 24 Bit
Frequency range		DVD 48 kHz / 96 kHz	4 Hz – 22 kHz / 4 Hz – 44 kHz	4 Hz – 22 kHz / 4 Hz – 44 kHz	4 Hz – 22 kHz / 4 Hz – 44 kHz
Dynamic range		CD 44.1 kHz	4 Hz – 44 kHz	4 Hz – 44 kHz	4 Hz – 44 kHz
Dynamic range (1 kHz) / Signal noise (1 kHz)		dB 80 / 95	4 Hz – 20 kHz	4 Hz – 20 kHz	4 Hz – 20 kHz
Dynamic adjustment		•	•	•	•
Audio downsampling		•	•	•	•
Digital sound decoder		•	•	•	•
Dolby Digital outputs		Dolby Digital AC3, DTS, MPEG 2, MP3, WMVA	Dolby Digital AC3, MPEG 2, MP3, WMVA	Dolby Digital AC3, MPEG 2, DTS, TCM	Dolby Digital AC3, MPEG 2, MP3, WMVA
Dolby ProLogic		Dolby Digital AC3, DTS, MPEG 2, MP3, WMVA	Dolby Digital AC3, MPEG 2, DTS, TCM	Dolby Digital AC3, MPEG 2, DTS, TCM	Dolby Digital AC3, MPEG 2, DTS, TCM
Virtual Dolby Surround / Digital sound effects		•/•	•/•	•/•	•/•
Playback features					
Fast picture search (forward and reverse)		2x/4x/6x/8x	2x/4x/6x/8x	2x/4x/8x/20x	2x/4x/8x/20x
Title / chapter skip		•	•	•	•
Title / chapter skip		•	•	•	•
Repeat still picture / Picture by picture playback		•/•	•/•	•/•	•/•
Slow motion (forward and reverse)		1/2, 1/4, 1/8	1/2, 1/4, 1/8	1/2, 1/4, 1/8, 1/20	1/2, 1/4, 1/8, 1/20
Quick replay		•	•	•	•
Repeat		Title/chapter/sequence A–B	Title/chapter/sequence A–B	Title/chapter/sequence A–B	Title/chapter/sequence A–B
Random play / Programme play (CD, MP3)		•/•	•/•	•/•	–
Special features					
Zoom		•	•	•	•
Child lock		•	•	•	•
Language choice (Dialog, subtitle)1)		•	•	•	•
Multi-angle choice1)		•	•	•	•
CD text		–	–	–	–
Operating features					
Infrared remote control		TP 81 D, remote control with elementary functions for Grundig TV	TP 81 D, remote control with elementary functions for Grundig TV	TP 81 D, remote control with elementary functions for Grundig TV	TP 85 D
On Screen Display		•	•	•	•
Connections					
TV-sockets (progressive Scan; 3 x Cinch)		•	–	–	–
EuroAV, Scart		2 x (RGB)	1 x (RGB)	1 x (RGB)	1 x (RGB)
Cinch video (CVBS) / Cinch audio stereo downmix		•/•	•/•	•/•	•/•
S-video socket (Y/C)		•	•	•	•
Digital audio output coaxial / optical		•/•	•/•	•/•	•/•
Mains unit					
Mains voltage		V- 110 – 240, 50 – 60 Hz	110 – 240, 50 – 60 Hz	110 – 240, 50 – 60 Hz	110 – 240, 50 – 60 Hz
Power consumption max. / standby		approx. W 10 / < 1	20 / < 1	20 / < 5	10 / –
Weight		approx. kg 2,8	36 x 7,3 x 24,6	42 x 9 x 24,8	2,4
Dimensions (W x H x D)		approx. cm 43 x 5 x 25,4	EuroAV cable, 1 x cinch video cable, 1 x cinch audio digital cable	43 x 4,8 x 25,7	43 x 4,8 x 25,7
Supplied accessories		–	–	–	–
1) Depending on the DVD-disc		Technical data supplied without liability.			

Playability of self-made DVDs and CDs on Grundig DVD drive mechanisms.

DVD-Rs/RWs in DVD video format as well as CD-Rs/CD-RWs in CD-DA and in MP3 format can be played back. However it can occur, due to differences in the quality of the media as well as the characteristics of the recording, that individual self-made DVDs or CDs cannot be read. This does not indicate an incorrect function of the playback unit in these cases.

MEGA LOGIC Megalogic is a system that enables the automatic coordination of programme settings between components, without lengthy study of the operating manual or the need to consult experts. Programming is easy for the user, because of the automatic coordination of settings between components. All of the Grundig Megalogic devices communicate with one another automatically, and perform bothersome programming steps on their own.

TV GUIDE In connection with a TV set with TV Guide: easy and automatic recorder programming on the screen of your television via electronic channel guide (TV Guide) which is transmitted by the broadcasting companies.

ATS On initial installation, ATS (Automatic Tuning System) scans all channels for receivable broadcasters. These can be stored in your desired sequence.

ACC + The ACC+ concept, an intelligent image enhancement system, checks the quality of the video picture and, if required, activates switches and filters to make appropriate corrections.

LONG PLAY Besides normal speed, the video recorder can also operate at half speed. That means that half of the video tape can be saved.

HIFI STEREO Sound recording and playback in HiFi stereo quality. The video recorder is especially suitable for the connection to a stereo TV or a HiFi or Dolby system.

EURO-AV International standardized connection for the transmission of picture, sound and computer signals.

STAND BY <3WATT Save energy with Grundig video recorders. Low power standby significantly cuts power consumption even compared to higher to standby consumption to values less than 3 watt.

VIDEO

VIDEO RECORDERS		GV 3243	HIFI
Catalog page		41	VHS
System			
Drive / Functions			
Video heads / Audio heads		4/2	
High speed drive mechanism (180 min. cassette)		60 (rewind)	
Longplay		•	
NTSC playback		•	
NTS (automatic cassette recognition) / VHS		•/•	
Digital auto tracking / Manual tracking		•/•	
Reception / Installation			
PLL hyperband cable tuner (8 MHz)		•	
Automatic tuning system AIS euro plus		•	
Megalogic		•	
Programme memory		99	
Recording / Editing			
Automatic colour control ACC+		• New ACC+	
Slow motion		•	
Still picture / Still picture advance		• [perfect] / •	
Picture search forward / reverse		•/•	
Assemble cut		•	
Sound			
HiFi FM helical sound recording		•	
Transmission range mono / HiFi		Hz 40 – 11,000 / 20 – 20,000	
Stereo / duallanguage recording and playback		•/•	
Special features			
16:9 switching		•	
On-screen display (OSD)		•	
Automatic setting time / date		•/•	
Remaining time display		•	
Record programming			
Timer programming via TV Guide ¹⁾		•	
Memory for automatic recording		6 events in 1 year	
Everyday / Every week		•/•	
OTR (One Touch Recording) up to 300 min.		•	
VPS / VPS scanning / Station recognition		•/•/•	
ShowView programming		•	
Connections			
Euro-AV / additional Euro-AV (decoder)		•/•	
IR datalink (Pin B control)		•	
Audio-out (Cinch, rear)		•	
Video-in / Audio-in (Cinch, front)		•/•	
Infrared remote control			
Type		TP 92 V	
Mains supply			
Bridging period by power outage		approx. time 60 minutes	
Mains voltage, 50/60 Hz		V~ 220 – 240	
Power consumption playback / standby		approx. W 17/6	
Low power standby		approx. W < 3	
Weight		approx. kg 2.8	
Dimensions (W x H x D)		approx. cm 36 x 9.4 x 24	

¹⁾ In connection with a TV Guide capable TV set Technical data supplied without liability.

HIFI / AUDIO PORTABLE

160 WATT PMPO The precision time settings of some clock radios is automatically controlled by the atomic time server DCF-77 located in Mainflingen near Frankfurt, Germany. A built-in microprocessor processes the signals received and automatically controls the quartz timepieces of these clock radios. That means that you do not even have to switch from summer to winter time anymore.

UBS With "Compact Disc Digital Audio", the advantages of laser and digital technology are used for music playback.

99 Up to 99 titles can be pre-programmed on some CD players and called up in seconds.

AUTOREVERSE Automatic direction change at the end of a cassette side playback, thus manual turning of the cassette is unnecessary.

TIMER Devices with timer allow automatic switching on and off at pre-programmed times.

SUMMER TIME Summer time is displayed. Switchable with just one button. The time of radio-controlled clocks is automatically adjusted.

2 ALARM TIMES 2 wake-up times is particularly practical, if, for example, you want to be woken later at weekends.

REMOTE CONTROL All the important functions of audio devices with this symbol can be conveniently remote controlled.

160 WATT PMPO The powerful Grundig micro systems have up to 160 watt PMPO, that means 2 x 15 watt nominal output.

UBS Ultra Bass System. Outstanding bass playback with the electronic increase of low frequencies.

SURROUND Surround Sound. An additional spatial effect is produced from the stereo signal and then reproduced over the loudspeakers. This is how a fascinating sound experience comes into being.

RDS RDS – The Radio Data System – Evaluation of the Radio Data System is shown by the following codes: **PI** (Programme Identification) for RDS signal recognition. **PS** (Programme Service) for the display of the station name. **AF** (Alternative Frequency) for the automatic selection of the best frequency transmitted by an RDS station.

PTY Programme Type Evaluation. A service of different broadcasting companies that enables the evaluation of different programme types, e.g. pop, news, sport etc.

FREQUENCY SYNTHESIZER The PLL frequency synthesizer allows a microprocessor-driven, drift-free station setting with practical tuning steps.

SWRANGE 1.6 – 300 MHz Several Grundig World Receivers comprehensively cover the short wave range from 1.6 ... 30 MHz.

45 Up to 45 station memory places in intermix, programmable with FM or MW (AM), make Grundig tuners future-oriented.

Playability of CD-Rs / CD-RWs on Grundig drive mechanisms.
It may occur, due to differences in the quality of the media (CD blanks) as well as the characteristics of the recording (for example, due to the various forms of available burn software), that individual self-made CD-Rs or CD-RWs cannot be read. This does not indicate an incorrect function of the playback unit in these cases.

AV RECEIVERS	Cinio AVR 5200 DD	AVR 4300 DD
Catalog page	44	45
Amplifier unit features		
Dolby Digital 5.1	•	•
Prologic II	•	•
DTS decoder	•	•
Loudness	•	•
Deafear switch (sound control off)	•	•
Digital Sound Control	Theatre, Arena, Stadium, Church, Club, Concert	
Amplifier unit technique		
Music output in stereo mode	W 2 x 100 (8 ohms), 2 x 85 (4 ohms)	2 x 30 (4 ohms)
Nominal output in stereo mode	W 2 x 75 (8 ohms), 2 x 65 (4 ohms)	2 x 20 (4 ohms)
Music output in DPL mode	W 5 x 90 (8 ohms), 5 x 70 (4 ohms)	5 x 30 (4 ohms)
Nominal output in DPL mode	W 5 x 60 (8 ohms), 5 x 45 (4 ohms)	5 x 20 (4 ohms)
Input sensitivity / impedance	mV/kohms 200 / 22	200 / 22
Loudspeaker impedance	ohms 4 / 8 switchable	4
Damping factor (1 kHz)	≥ 48	38 (4 ohms)
Distortion factor (nominal output -1 dB, 8 ohms, 1 kHz)	≤ 0.3	0.3
Noise tension distance	≥ 48	90
Output band width	Hz 40 - 20000	40 - 20000
Tuner unit features		
Range	FM	FM
PLL frequency synthesizer	•	•
Station memory	40	40
Radio Data System RDS	•	•
RDS radiotext	•	•
Programme type evaluation PTY	•	•
Tuner unit technique		
FM port	MHz 87.5..108	87.5..108
Frequency range	≤ 1V 2 / 25	4 / 30
Sensitivity (S/N) 16-dB stereo	≤ 0.3	0.3
Distortion factor mono / stereo	≤ 0.3 / 0.6	0.3 / 0.6
Noise tension distance mono / stereo (IEC curve A eff.)	≥ 48	66 / 65
Frequency range	Hz 20 - 16000	20 - 16000
Connections		
Inputs	Digital (optical), digital (coaxial), TV/SAT DVD, VCR, Tape, Line/AUX, preamplifier, front AV, 75 ohms antenna	Digital (optical), digital (coaxial), TV/SAT DVD, VCR, Tape, Line/AUX, front AV, 75 ohms antenna
Outputs	TV, loudspeakers, subwoofer, VCR, Tape, headphones	TV, loudspeakers, subwoofer, VCR, headphones
Remote control	TP 50 A	TP 50 A
Mains supply, mains frequency	V~, Hz 230..50/60	230..50/60
Power consumption max. / standby	approx. W 650 / < 2	400 / < 2
Dimensions (W x H x D)	approx. cm 43.5 x 13 x 34.5	36 x 9.6 x 28
Supplied accessories	AV cable	AV cable

Technical data supplied without liability.

5.1 DOLBY PROLOGIC LOUDSPEAKER SET CINEMO DR 3305 DD	Front speakers / Rear speakers	Center speaker	Subwoofer
Catalog page	44	44	44
Acoustic principle	Closed, 1 wide band, magnetic shielded	Closed, 1 wide band, magnetic shielded	1-way bass-reflex, active
Nominal capacity	W 30	30	75 nominal output
Music capacity	W 50	50	100 music output
Nominal impedance	Ohm 8	8	>10.000
Transmission range	Hz 150 - 20000	150 - 20000	40 - 150
Mains voltage, mains frequency	V~, Hz -	-	230..50/60
Power consumption max./standby	approx. W -	-	110 / < 1
Dimensions (W x H x D)	approx. cm 9 x 15 x 11	9 x 15 x 11	20 x 36 x 34.5

Technical data supplied without liability.

LOUDSPEAKERS	SLB 2-SET ¹⁾
Catalog page	30..59
Acoustic principle	2-way bass-reflex
Nominal capacity	W 45
Music capacity	W 75
Nominal impedance	ohms 4
Quantity of loudspeakers	pcs. 2
Transmission range	Hz 60 - 22000
Crossover frequency	Hz 2500
Dimensions (W x H x D)	approx. cm 29 x 125 x 23 (with stand)
Weight	approx. kg 10 (with stand)

¹⁾ SLB 2-Set consists of a pair of loudspeakers

Technical data supplied without liability.

DVD RECEIVER/ DVD MICRO-SYSTEME	CINEMO DR 5400 DD	CINEMO DR 3400 DD	CINEMO DR 3305 DD	SCENOS UMS 6400 DVD	SCENOS UMS 4400 DVD
Catalog page	46	46	47	49	48
Amplifier unit					
Dolby Digital 5.1	•	•	•	•	Dolby Digital 2.1
Prologic	•	•	•	•	-
DTS decoder	•	•	•	•	-
Digital Sound Control	Pop, Rock, Jazz, Classic	Pop, Rock, Jazz, Classic	Pop, Rock, Jazz, Classic	Pop, Rock, Jazz, Classic	Pop, Rock, Jazz, Classic
FMPO	W 1300	700	1400	560	450
Music output in DPL mode	W 5 x 45; 1 x 100 (Subwoofer)	5 x 35; 1 x 50 (Subwoofer)	5 x 50	5 x 14	2 x 12
Nominal output in DPL mode	W 5 x 35; 1 x 80 (Subwoofer)	5 x 25; 1 x 35 (Subwoofer)	5 x 30	5 x 10	2 x 18
Input sensitivity / impedance	mV/kohms 400 / 22	400 / 22	400 / 22	-	-
Loudspeaker impedance	ohms 6 / 10 (Subwoofer)	8 / 4 (Subwoofer)	8	8	-
DVD unit					
Playable disc formats	DVD-Audio, DVD Video, DVDR, DVDRW, CD-Digital Video 1.1 and 2.0, SVCD, CD-Digital Audio, MP3, CDR, CDRW, JFEG	DVD Video, DVDR, DVDRW, CD-Digital Video 1.1 and 2.0, SVCD, CD-Digital Audio, MP3, CDR, CDRW, JFEG	DVD Video, DVDR, DVDRW, CD-Digital Video 1.1 and 2.0, SVCD, CD-Digital Audio, MP3, CDR, CDRW, JFEG	DVD Video, DVDR, DVDRW, CD-Digital Video 1.1 and 2.0, SVCD, CD-Digital Audio, MP3, CDR, CDRW, JFEG	DVD Video, DVDR, DVDRW, CD-Digital Video 1.1 and 2.0, SVCD, CD-Digital Audio, MP3, CDR, CDRW, JFEG
Picture formats	4:3; 16:9	4:3; 16:9	4:3; 16:9	4:3; 16:9	4:3; 16:9
PAL / NTSC playback	•	•	•	•	•
On Screen Display (OSD)	•	•	•	•	•
Picture search forward / reverse	•	•	•	•	•
Slow motion	•	•	•	•	•
Period still picture	•	•	•	•	•
Repeat	•	•	•	•	•
Language choice (diag. subtitle) ¹⁾	•	•	Title / chapter / sequence AB	•	•
Multi-angle choice ²⁾	•	•	•	•	•
Inner unit					
Ranges	FM, MW (AM)	FM, MW (AM)	FM, MW (AM)	FM, MW (AM)	FM, MW (AM)
PLL frequency synthesizer	•	•	•	•	•
Station memory	30 + 15	30 + 30	40	20 + 10	20 + 10
Radio Data System RDS	•	•	•	•	•
FM range	MHz 87.5...108	87.5...108	87.5...108	87.5...108	87.5...108
AM (MW) range	MHz 522 ...1629	522 ...1629	531 ...1629	522 ...1620	522 ...1620
Connections					
Inputs	TV/SAT, VCR, VCR2, FM-antenna (75 Ohm), AM-antenna, digital (coaxial)	TV/SAT, VCR, FM-antenna (75 Ohm), AM-antenna, digital (optisch)	TV/SAT, Line/Aux, FM-antenna (75 Ohm), AM-antenna, digital (optical), TV, speaker, VCR, S-Video, headphones	TV/SAT, FM-antenna (75 Ohm), AM-antenna, digital (coaxial), VCR (composite), S-Video, Progressive Scan, Preamp out 5.1, headphones	Line/Aux, digital (coaxial), VCR (composite), S-Video, Progressive Scan, headphones
Outputs					
Remote control	•	•	•	•	•
Mains supply, mains frequency	V~, Hz 230..50/60	230..50/60	230 - 240, 50/60	230..50/60	230..50/60
Power consumption max. / standby	approx. W 410 / 1	340 / 1	250 / 1	20 / 9 (0.5 ECOMode)	60 / 5 (0.5 ECOMode)
Dimensions (W x H x D)	approx. cm 36 x 7 x 38.5	36 x 8 x 38	43.5 x 6 x 34.5	15.2 x 15.7 x 26	15.2 x 15.7 x 26
Supplied accessories	AV-cable, speaker cable, remote control	AV-cable, speaker cable, remote control	AV-cable, speaker cable, remote control	AV-cable, speaker cable, remote control	AV-cable, speaker cable, remote control
LOUDSPEAKER SET					
Acoustic principle	closed, 1 wide band, magnetic shielded	closed, 1 wide band, magnetic shielded	closed, 1 wide band, magnetic shielded	closed, 1 wide band, magnetic shielded	2-way bassreflex
Nominal capacity	W 80	35	30	12	12
Music capacity	W 145	45	50	15	18
Nominal impedance	Ohm 4	8	8	8	8
Transmission range	Hz 150 - 20.000	150 - 20.000	150 - 20.000	150 - 20.000	150 - 20.000
Dimensions (W x H x D)	approx. cm 9 x 12 x 13	9 x 12 x 13	9 x 13 x 13	9 x 13 x 9.6	16 x 27 x 20
Subwoofer					
Acoustic principle	1-way bassreflex, passiv	1-way bassreflex, passiv	1-way bassreflex, active	1-way bassreflex, active	1-way bassreflex, active
Nominal capacity	W 80	35	75 nominal capacity	50 nominal capacity	30 nominal capacity
Music capacity	W 100	50	100 music capacity	70 music capacity	45 music capacity
Nominal impedance	Ohm 10	4	>10.000	>10.000	>10.000
Transmission range	Hz 40 - 150	40 - 150	40 - 150	40 - 150	40 - 150
Mains supply, mains frequency	V~, Hz -	-	230..50/60	230..50/60	230..50/60
Power consumption max. / standby	approx. W -	-	110 / < 1	115 / 0.5	85 / 5
Dimensions (W x H x D)	approx. cm 18.5 x 38 x 32.5	16.5 x 33 x 32.5	20 x 36 x 34.5	20 x 32.5 x 41	20 x 31 x 34

Technical data supplied without liability.

MICRO SYSTEMS		Ovation CDS 6380 S	Veritiga UMS 6300	Cirflexxx UMS 4201 SPCD	Cirflexxx UMS 4110 /UMS 4101	Varixxx UMS 4401 SPCD	VARIXX UMS 4200
Catalog page		54/55	53	50/51	50/51	52	52
Amplifier unit							
PMPO	W	80	100	160	160	65	65
Music / nominal output	W	2 x 5 / 3 / 1 x 10 / 6	2 x 12 / 8 (8 ohms)	2 x 20 / 12 (8 ohms)	2 x 20 / 12 (8 ohms)	2 x 8 / 5 (4 ohms)	2 x 8 / 5 (4 ohms)
Dynamic Bass Boost / Ultra Bass System		• / -	• / -	• / -	• / -	• / -	• / -
Digital Sound Control		•	•	•	•	•	•
Preprogrammed EQ settings		5	5	5	5	5	5
Volume control digital		•	•	•	•	•	•
Wake-up function / Sleep function		• •	• •	• •	• •	• •	• •
Connectivities for AUX, headphones / 7.5 ohms coax.		• / -	• / •	• / •	• / •	Headphones / •	Headphones
Tuner unit							
Ranges	FM, AM (MW)	FM, AM (MW)	FM, AM (MW)	FM, AM (MW)	FM, AM (MW)	FM, AM (MW)	FM, AM (MW)
PLL Frequency synthesizer / Station memory	• / 20	• / 40	• / 40	• / 40	• / 40	• / 20 + 10	• / 20 + 20
Radio Data System RDS / RDS radiotext	• / -	• / -	• / •	• / •	• / •	• / •	• / •
Programme type evaluation PTY	•	•	•	•	•	•	•
Cassette unit							
Autotune	-	-	-	-	-	-	-
Continuous play	-	-	-	-	-	-	-
CD copy	-	-	-	-	-	-	-
CD unit							
D/A converter	bit	1	1	1	1	1	1
Title memory	20	32	32	32	32	99	60
Shuffle (random play)	•	•	•	•	•	•	•
Can read CDR / CDRW	• / -	• / •	• / •	• / -	• / -	• / •	• / -
MP3 format	-	-	-	MPEG 1 Layer 3, 44.1 kHz	-	MPEG 1 Layer 3, 44.1 kHz	-
Maximum folders / Maximum files	-	-	-	99 / 400	-	256	-
Datatac system	-	-	-	8 - 320 kbps, variable	-	64 - 320 kbps, variable	-
ISO 9660 level 1 compatible	-	-	-	• / 2way bass-reflex	• / 2way bass-reflex	[max. 17 signs]	-
Remote control / HIFI speakers (included)	• / Magic Fidelity System	• / bass-reflex	• / bass-reflex	• / 2way bass-reflex	• / 2way bass-reflex	• / 2way bass-reflex	• / 2way bass-reflex
Main supply, mains frequency	V~, Hz	230 / 50/60	230 / 50/60	230 / 50/60	230 / 50/60	230 / 50/60	230 / 50/60
Power consumption max. / standby	approx. W	35 / 2	30 / 2	75 / 2	75 / 2	45 / 1	45 / 1
Dimensions tower (W x H x D)	approx. cm	31 x 18 x 9	19.5 x 16.2 x 28.5	17 x 24.5 x 23	17 x 24.5 x 23	14.5 x 20.8 x 20.9	14.5 x 20.8 x 20.9
Dimensions speakers (W x H x D)	approx. cm	-	13.3 x 16.0 x 18.5	13 x 24 x 16	13 x 24 x 16	13.1 x 20.8 x 17	13.1 x 20.8 x 17
Technical data supplied without liability.							



Magic Fidelity – that’s the way how it functions :

The functionality of Magic Fidelity can be described quite simple: In this cleverly devised active loudspeaker concept is for each of the three customised loudspeakers an own power amplifier dedicated. Three active crossed-over networks – aligned with the respective loudspeakers by frequency operations – define for the mutual bass loudspeaker, for the left and right circuit, the optimal frequency level. All three loudspeakers are inserted in an individual housing with specified, damped volume. The bass loudspeaker is energised with the mutual stereo signals from left and right up to a defined cut-frequency. Afterwards the both middle/treble loudspeakers for left and right overtake the further acoustic, stereo phone signal distribution. Special loudspeakers have been developed and implemented to reach the full rounded sound. The special mounting forms of the middle/treble loudspeakers, made out of the combination titanium-membrane and cellular bead material, enables also by relative close distance still an excellent stereo basis.

AUDIO PORTABLE

PORTABLE CD-PLAYER	MYSTIXX CDP 9410 SPCD	MYSTIXX CDP 9400 SPCD	MYSTIXX CDP 9200 SPCD	MYSTIXX CDP 9100 SPCD	PLANIXX CDP 3000 SLIM	CDP 1420 AS 160	CDP 1410 AS 45	CDP 1400
Catalog page	57	57	56	56	59	59	58	58
CD unit								
D/A converter / Oversampling	1 Bit / 32times	1 Bit / 32times	8 Bit / 2times	8 Bit / 2times	1 Bit / 8times	1 Bit / 8times	1 Bit / 8times	1 Bit / times
Digital Anti-Block System	Sek.	160 (480 MP3 / 1.000 WMA)	45 (120 MP3)	40 (200 MP3)	loggable	160	45	-
Title memory	64	64	64	32	20	20	20	20
Random play / Intro scan	• / •	• / •	• / •	• / •	• / •	• / •	• / •	• / •
Repeat one / all / programme	• / • / •	• / • / •	• / • / •	• / • / •	• / • / •	• / • / •	• / • / •	• / • / •
Can read CDR / CDRW	• / • (MP3 and WMA also)	• / • (MP3 also)	• / • (MP3 also)	• / • (MP3 also)	• / •	• / •	• / •	• / •
ID-3 tag display	-	-	-	-	-	-	-	-
Frequency range	Hz	20 – 20.000	20 – 20.000	20 – 20.000	20 – 20.000	20 – 20.000	20 – 20.000	20 – 20.000
Amplifier unit								
Output	mWatt	2 x 5	2 x 5	2 x 5	2 x 15	2 x 15	2 x 15	2 x 15
Equalizer settings	5	5	-	5	-	-	-	-
Ultra Bass System	•	•	•	•	Dynamic Bass Boost	•	•	•
Remote control integrated in the erphone cable	•	•	•	-	-	-	-	-
LCD display	• 4 lines Dot-matrix (remote control illuminated)	• 1 line Dot-matrix (remote control illuminated)	•	• 2 lines Dotmatrix	• (remote control)	•	•	•
Connections								
Stereo headphones (3,5 mm) / Line out	• / -	• / -	• / •	• / •	• / •	• / -	• / -	• / -
Power supply								
External power supply (for accu operation)	V~	• 230	• 230	• 230	• 230	• 230	• 230	-
Batteries / Battery voltage	V=	2 mignon cells, [1,2] up to 20 h playing time	2 mignon cells, [1,2] up to 20 h playing time	2 mignon cells, [1,5] up to 10 h playing time	2 mignon cells, [1,2] up to 55 h playing time	2 mignon cells, [1,5] up to 20 h playing time	2 mignon cells, [1,5] up to 20 h playing time	2 mignon cells, [1,5] up to 20 h playing time
Weight (without batteries)	approx. kg	0,25	0,25	0,21	0,22	0,22	0,22	0,22
Dimensions (W x H x D)	approx. cm	13,5 Ø x 1,7	13,6 Ø x 1,7	12,7 x 3,0 x 13,4	13 x 3,0 x 13,5	14,5 Ø x 2,7	14,5 Ø x 2,7	14,5 Ø x 2,7
Supplied accessories		Stereo earphones with operation unit in the cable, 2 mignon cells, 5 V AC/DC adaptor	Stereo earphones with operation unit in the cable, 2 mignon cells, 5 V AC/DC adaptor, ext. battery box	Stereo earphones with operation unit in the cable, 4,5 V AC/DC adaptor, Line-cable	Stereo earphones with neck clip and operation unit in the cable, Neopren belt bag, 2 mignon cells, ext. battery box, 4,5 V AC/DC adaptor	Stereo earphones, 4,5 V AC/DC adaptor	Stereo earphones	Stereo earphones
Technical data supplied without liability.								

AUDIO PORTABLE

RADIO RECORDERS WITH CD					Freexx 50 RRCD 4305 SPCD	Freexx 40 RRCD 4204 PLL	Freexx 30 RRCD 4203 PLL	Freexx 20 RRCD 4202	Freezz 20 RRCD 4301 PLL	Freezz 10 RRCD 4300
Catalog page					60	61	61	62	63	63
Tuner unit					FM, MW (AM), LW / 30	FM, MW (AM), LW / 30	FM, MW (AM), LW / 30	FM, MW (AM), LW / –	FM, MW (AM) / 20	FM, MW (AM) / –
Ranges / Station memory PLL Frequency synthesizer / Stereo signal display					•/•	•/•	•/•	AFC / •	•/•	AFC / •
Cassette unit					•/•	•/•	•/•	•/•	•/•	•/•
Automatic tone control / Tape-and switch off CD dubbing / One Touch Recording					•/•	•/•	•/•	•/•	•/•	•/•
Transmission range					Hz 125 – 10000	125 – 10000	125 – 10000	125 – 10000	125 – 10000	125 – 10000
CD unit					1 bit / 8-times	16 bit / 8-times	16 bit / 8-times	16 bit / 8-times	16 bit / 8-times	16 bit / 8-times
D/A converter / Oversampling					20 / –	20 / •	20 / •	21 / •	20 / •	30 / –
Title memory / CD synchro					•/•	•/•	•/•	•/•	•/•	•/•
Random play / Intro scan					•/•/•	•/•/•	•/•/•	•/•/•	•/•/•	•/•/•
Repeat one / all / programme					•/•/•	•/•/•	•/•/•	•/•/•	•/•/•	•/•/•
Can read CD-R / CDRW					•/•	•/•	•/•	•/•	•/•	•/•
Frequency range					Hz 20 – 20000	20 – 20000	20 – 20000	20 – 20000	20 – 16000	20 – 16000
MP3 format					–	–	–	–	–	–
Maximum folders / Maximum files					99 / 400	–	–	–	–	–
Data rate system					8 – 320 kbps, variable	–	–	–	–	–
ISO 9660 level 1 compatible					•	–	–	–	–	–
Amplifier unit					W 1 30	40	40	25	12	12
PMPO					W 2 x 2 / 2 x 3.5	2 x 3 / 2 x 5	2 x 3 / 2 x 5	2 x 1.6 / 2 x 3.2	2 x 1 / 2 x 1.5	2 x 1 / 2 x 1.5
Nominal / music output					–/• 3-way equalizer	–/•	–/•	–/•	–/•	–/•
Digital Sound Control / Automatic loudness					•/Dynamic Bass	2/•	2/•	2/•	2/•	2/•
Surround Sound / Ultra Bass System					•	–	–	–	–	–
Load-speakers / Bass Reflex System					•	–	–	–	–	–
Remote control					•	–	–	–	–	–
Connections					•	•	•	•	•	•
Stereo headphones (3.5 mm)					–	–	–	–	–	–
Main supply					V–	•/230	•/230	•/230	•/230	•/230
Integrated supply / Mains voltage					V=	mono cells / 6 x 1.5	mono cells / 6 x 1.5	baby cells / 8 x 1.5	mono cells / 6 x 1.5	mono cells / 6 x 1.5
Batteries / Battery voltage					approx. kg	3.95 cells / 4 x 1.5	3.8	2.5	2.9	2.9
Weight (without battery)					approx. cm	44.4 x 18.5 x 25.3	44.4 x 18.5 x 25.3	28 x 17.5 x 28	39.5 x 18.5 x 25	39.5 x 18.5 x 25
Dimensions (W x H x D)					Technical data supplied without liability.					

RADIO RECORDERS / CASSETTE RECORDER	RR 316	RR 276
Catalog page	64/65	64
Tuner unit		
Ranges	FM, MW (AM)	FM, MW (AM)
Automatic FM fine tuning (AFC)	•	•
Stereo signal	•	–
Cassette unit		
Built-in microphone / Listening in during recording (not with micro)	•/•	•/•
One Touch Recording / Tape-and switch off	•/•	•/•
Transmission range	Hz 125 – 6300	125 – 6300
Amplifier unit		
PMPO	W 12	7
Nominal / music output	W 2 x 1 / 2 x 1.5	1.2 / 1.8
Ultra Bass System / Tone control	•/•	–/•
Load-speakers / Automatic loudness	2 / –	1 / –
Connections		
Microphone / Stereo headphones (3.5 mm)	–/•	–/• mono
Main supply		
Integrated supply / Mains voltage	V–	•/230
Batteries / Battery voltage	V=	mono cells / 4 x 1.5
Weight (without battery)	approx. kg	2.13
Dimensions (W x H x D)	approx. cm	42.2 x 14.5 x 15.5
Technical data supplied without liability.		

AUDIO PORTABLE

PORTABLE RADIOS	Hydros SR 9100 PLL	Concert Boy 80 RP 6301 RDS	Ocean Boy 70 RP 5300 PLL	Music Boy 51 RP 5201 PLL	Music Boy 50 RP 5200	Music Boy 40 RP 4200	City Boy 52 PR 5102	City Boy 50 PR 5100	City Boy 31 PR 3201
Catalog page	71	69	68	70	70	70	71	71	70
Tuner unit / clock									
Ranges	FM	FM, MW (AM), LW, SW	FM, SW, MW (AM), LW	FM	FM, SW, MW (AM)	FM, SW, MW (AM)	FM	FM, MW (AM)	FM, MW (AM)
Station memory	14	10 + 10 + 10 + 10	20	10	–	–	10	–	–
Radio data system RDS	•	•	–	–	–	–	–	–	–
Programme type evaluation (PTY)	–	•	–	–	–	–	–	–	–
Display of station name	•	•	–	•	–	–	•	–	–
PLL synthesizer	–	–	–	–	–	–	–	–	–
Automatic FM fine tuning (AFC)	–	•	–	–	•	–	–	–	•
Local / DX switch	•	•	–	–	–	–	–	–	–
CD time / frequency display	•	•	•	•	–	–	–	–	–
Quartz clock with LCD display	•	•	•	•	–	–	–	–	–
Amplifier unit									
Nominal output	W 0.50	1.20	0.25	0.75	0.50	0.50	0.12	0.08	0.10
Music output	W 0.50	1.50	0.4	1.0	0.75	0.75	0.12	0.08	0.10
Tone balance	–	•	•	•	•	•	–	–	–
Automatic loudness	–	•	•	•	•	•	Ultra Bass	Ultra Bass	–
Connections									
Stereo headphones (3.5 mm socket)	–	• (mono)	• (mono)	• (mono)	• (mono)	• (mono)	•	•	• (mono)
Power supply									
Integrated supply	–	•	–	•	•	•	–	–	–
Mains voltage	V–	mono cells	–	230	230	230	–	–	–
Batteries	V=	3 x 1.5	mignon cells	4 x 1.5	4 x 1.5	4 x 1.5	micro cells	micro cells	mignon cells
Battery voltage	–	4 x 1.5	4 x 1.5	6	6	4 x 1.5	2 x 1.5	2 x 1.5	2 x 1.5
External power supply	–	–	–	–	–	–	–	–	–
Weight (without batteries)	kg	0.38	0.55	1.3	0.9	0.9	0.09	0.1	0.17
Dimensions (W x H x D)	approx. cm	15.9 x 5	21 x 11.5 x 6.3	26 x 15 x 7	24.7 x 12.7 x 6.2	24.7 x 12.7 x 6.2	6.1 x 10.5 x 2.8	5.9 x 9.0 x 2.8	7.2 x 12.3 x 3.4
Supplied accessories	–	Base stand, wall holder	–	–	–	–	Stereo earphones	Stereo earphones	–
Technical data supplied without liability.									

WORLD RECEIVERS	Yacht Boy P 2000	Yacht Boy 80 WR 5408 PLL	Yacht Boy 50 WR 5405	Yacht Boy 10 WR 5401
Catalog page	66	67	66	66
Tuner unit / clock				
Ranges	FM, 2xSW, MW (AM)	FM, SW, MW (AM), LW	FM, 7 x SW, MW (AM)	FM, 9 x SW, MW (AM), LW
Station memory	20	9 + 9 + 9 + 18	–	–
PLL synthesizer	•	•	–	–
Automatic FM fine tuning (AFC)	–	–	•	•
Narrow / wide	–	•/•	–	–
SSB (single side band) / Dual conversion	–	–	–	–
Local / DX switch	–	•	•	–
LCD time / frequency display	•	•	•	–
2 world time	•	•	•	–
Quartz clock with LCD display	•	•	•	–
Stereo signal display	•	•	•	–
Tuner display / Battery control	•/•	•/•	–	–
Amplifier unit				
Nominal output	W 0.25	0.40	0.10	0.10
Music output	W 0.25	0.40	0.10	0.10
Tone balance	–	switch, 2 steps	–	–
Connections				
Antenna	–	•(1)	–	–
Stereo headphones (3.5 mm socket)	•	•	•	•
Power supply				
Batteries	mignon cells	mignon cells	mignon cells	mignon cells
Battery voltage	V=	3 x 1.5	2 x 1.5	2 x 1.5
External power supply	V=	4.5	3 – 6	3 – 6
Weight (without battery)	approx. kg	0.33	0.51	0.25
Dimensions (W x H x D)	approx. cm	14.2 x 9.2 x 3.5	18.4 x 12 x 4	15 x 8.5 x 3.4
Supplied accessories	Leather protective cover	Leather protective cover, SW antenna, earphones	Leather protective cover	Leather protective cover
Technical data supplied without liability.				

¹⁾ External antenna included in delivery

AUDIO PORTABLE

CLOCK RADIOS		Noctus SC 9100 DCF RDS	Discalo CCD 6300	Sonoclock 890	Sonoclock 690	Sonoclock 620	Sonoclock 420
Catalog page		72	77	79	78	77	76
Clock unit							
Electronic clock with 24 hour display		LCD (multifunction)	LED	LCD	LED	LCD (multifunction)	LCD
Quartz stabilized		DCF 77 reception ¹⁾	•	•	•	•	•
Automatic synchronisation		2	–	–	–	via RDS ²⁾	–
Wake-up times	min.	•	2	1	1	up to 120	2
NAP: variable short time wake-up function		•	–	–	–	up to 300	–
WEC: no wake-up at weekends		•	–	–	–	•	•
Wake-up with radio or alarm		• voice mail / melody	• or CD	–	–	–	–
Alarm repeat interval (snooze)	min. 5	•	6	–	–	•	5
Wake-up after power failure	min. up to 59	–	up to 90	–	–	up to 59	up to 59
Automatic sleep timer	min. up to 90	–	up to 90	–	–	up to 59	up to 90
Display brightness adjustment		• autom. / man.	–	–	–	–	–
DCF 77 antenna		•	–	–	–	–	–
Tuner unit							
Ranges		FM	FM, MW (AM)	FM	FM	FM	FM
Stereo signal display		–	–	–	–	–	–
Radio Data System (RDS)		•	–	•	–	•	–
Enhanced Other Network (EON)		•	–	–	–	•	–
PLL frequency synthesizer		•	–	–	–	•	•
Automatic FM fine tuning (AFC)		–	–	–	–	–	–
FM station memory		10	–	10	10	–	10
Wire / ferrite antenna		•/–	•/–	•/–	•/–	•/–	•/–
CD unit							
D/A converter / Oversampling		–	1 bit / Bitrates	–	–	–	–
Title memory / Random play		–	20/•	–	–	–	–
Repeat one / all / programme		–	•	–	–	–	–
Can read CD-R / CDRW		–	•	–	–	–	–
Amplifier unit							
Nominal output	W 0.5		2 x 1.2	0.5	0.5	0.5	0.5
Music output	W 0.7		2 x 1.5	0.8	0.8	0.8	0.8
Automatic Loudness / Electronic volume adjustment		•/•	•/–	•/•	•/•	•/•	•/•
Connections							
Headphones socket (3.5 mm, mono)		•	–	–	–	•	•
Power supply							
Mains voltage, frequency	V~, Hz 230, 50/60		230, 50	230, 50/60	230, 50/60	230, 50/60	230, 50/60
Support battery for clock	–		9 V flat battery	9 V flat battery	9 V flat battery	2 x 1.5 V micro cells	2 x 1.5 V micro cells
Dimensions [W x H x D]	approx. cm 12 x 18.5 x 12		14.4 x 19.4 x 18.1	27.6 x 6 x 15	27.6 x 6 x 15	18.5 x 7 x 17	18.5 x 7 x 17

¹⁾ DCF 77 signal: displays the exact time and sets itself ²⁾ Via RDS line signal, broadcasted by some RDS stations Technical data supplied without liability.

AUDIO PORTABLE

CLOCK RADIOS		Sonoclock 60 SC 6300	Sonoclock 55 SC 5305	Sonoclock 54 SC 5304 DCF	Sonoclock 53 SC 5303 DCF	Sonoclock 52 SC 5302	Sonoclock 51 SC 5301	Sonoclock 50 SC 5300	Sonoclock 30 SC 3300
Catalog page		76	75	73	73	74	74	75	74
Clock unit									
Electronic clock with 24 hour display		Jumbo LED	Analog clock	LCD	LED	Jumbo LED	Jumbo LED	Jumbo LED	LED
Quartz stabilized		–	–	DCF 77 reception ¹⁾	•	–	–	–	–
Automatic synchronisation		1	1	2	1	2	2	1	–
Wake-up times	min. 2	9	5	9	6	7	7	9	1
Norm repeat interval (snooze)	min. up to 90	–	–	up to 90	up to 119	up to 59	up to 59	up to 59	up to 59
Wake-up after power failure	min. up to 90	–	–	up to 119	up to 90	up to 59	up to 59	up to 119	–
Automatic sleep timer	2-times	–	–	autom./by hand	–	–	–	–	–
Display brightness adjustment		–	–	•	•	–	–	–	–
DCF 77 antenna		–	–	–	–	–	–	–	–
Tuner unit									
Ranges		FM	FM	FM	FM, MW (AM)	FM	FM, MW (AM), LW	FM, MW (AM)	FM, MW (AM)
PLL frequency synthesizer		•	–	•	–	–	–	–	–
Automatic FM fine tuning (AFC)		•	–	–	•	•	•	•	•
FM station memory		15	10	–	–	–	–	–	–
Wire / ferrite antenna		•/–	•/•	•/•	•/•	•/–	•/•	•/•	•/•
Amplifier unit									
Nominal output	W 0.25		–	0.5	0.24	0.25	0.38	0.25	0.25
Music output	W 0.4		0.1	0.8	0.4	0.4	0.35	0.4	0.4
Connections									
Headphones socket (3.5 mm, mono)		•	–	•	–	•	•	–	–
Power supply									
Mains voltage, frequency	V~, Hz 230, 50/60		Battery operated: 2 x 1.5 V mignon cells	230, 50/60	230, 50/60	230, 50	230, 50	230, 50	230, 50
Support battery for clock	9 V flat battery		1.5 V mignon cell	integrated stay condenser	9 V flat battery	9 V flat battery	9 V flat battery	9 V flat battery	9 V flat battery
Dimensions [W x H x D]	approx. cm Ø 13 x 14.1		Ø 13 x 14.1	22 x 12.5 x 9.5	22 x 9 x 13.3	12.5 x 15.1 x 9	22 x 6.5 x 17	22 x 9 x 13.3	18.2 x 6.3 x 13.6

¹⁾ DCF 77 signal: displays the exact time and sets itself Technical data supplied without liability.

Your Specialist Retailer



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