On tour with innovative technology from the market leader – Bosch Coach Multimedia Solutions

Mobile communication, future-proof products, and professional system solutions – Bosch Car Multimedia provides all of this for coaches, intercity buses, city buses, and minibuses too. We supply commercial vehicle OEMs with the full range of multimedia and infotainment solutions. With smart systems, we boost convenience and safety while at the same time enhancing entertainment capabilities. Technology from Bosch turns driving into an experience and makes the passenger cabin become the 3rd living space, where all the benefits of modern travel are made available for passengers to enjoy. It enhances quality of life – which is what today’s customer expects.
Enhanced functionality for the driver and passengers – Coach Audio

The user-friendly audio systems from Bosch incorporate the latest technologies and have been specially developed for the requirements in coaches and buses. Our multimedia system with its high-performance infotainment feature set, the robust radio technology, and the highly adjustable microphones, provide the driver and passengers with enhanced functionality. The technology and design complement one another perfectly and are easy to integrate into any interior.
Professional Line 3

Professional Line 3 is high-end infotainment from Bosch. The Coach Cabin Selector head unit is the central HMI interface for the driver. It is used for controlling all audio, video and navigation components. The concept of “independent audio zones” makes it possible to play the same or different media in the driver and passenger zones.

**COACH CABIN SELECTOR PROFESSIONAL PREMIUM**

The Coach Cabin Selector (CCS) Professional Premium offers multiple connection options for a convenient user experience with a variety of media. The three microphone inputs, USB, AUX-IN, various connectors, and integrated DVD drive can be controlled conveniently using the remote control.

- Display: night design in green or red
- CD/DVD drive with 8x oversampling
  - Available regional codes: RC1, RC2, RC4, RC5
- Door monitoring function through automatic display of the camera images on the 7” cockpit display or the Videobox Monitor when the doors are opened.
- Radio: FM, SW, AM/MW, LW, WB
- USB slot
- Bluetooth telephony
- Connectivity/CE connectivity
- CAN connectivity
- Class-D output stage with 80 watts and 200 watts
- Operating button with manual on/off for passenger monitors
- Integrated video switch and connection option for an external video source
- Control of the DVB-T-Tuner in the Professional Line 3
- Separate tone settings for driver and passengers
- MAP: Display of navigation map on passenger monitors
- CAM: Display of the camera pictures on the driver monitor
  - Switching between four optionally connected cameras possible
- NAV: Display of navigation on the 7” cockpit display or Videobox monitor
- Three microphone inputs with priority switching for the driver microphone
- Integrated IR receiver
- MAS output for DVD changer and other external sources
- Tuner frequency ranges (depending on region):
  - FM: 87.5 to 108.0 MHz
  - SW: 5.800 to 6.300 kHz
  - AM/MW: 530.0 to 1,710.0 kHz
  - LW: 153.0 to 279.0 kHz
  - WB: 162.40 to 162.55 MHz
- Operating voltage: 12 V via CPA
- Operating temperature: -20 °C to +70 °C
- Format: 1 DIN
- Weight: 1,000 g
- Standards: CE, E1, FCC, RoHS, MVSS 302, ECE R118, WEEE
Professional Line 3

COACH CONTROL DISPLAY PROFESSIONAL
The Coach Control Display (CCD) Professional is the information and display medium of the Professional Line 3 system and is equipped with an integrated CD MP3 drive. It displays the audio files and videos selected for the driver and passengers in addition to other system information.

- Display: Night Design in green or red
- CD drive with 8x oversampling
- Radio: FM, SW, AM/MW, LW, WB
  - 36 station presets on 6 storage levels
  - Digital signal processing (DigiCeiver)
  - Optimized digital channel separation (SHARX®)
  - Travelstore and Traffic Announcement

OPTIONAL FOR THE CCD PROFESSIONAL BLUETOOTH
- Bluetooth telephony
- Automatic synchronization of contacts and call lists
- Private mode via CDM 08 GSM-driver microphone
- Tuner frequency ranges (depending on region):
  - FM: 87.5 to 108.0 MHz
  - SW: 5,800 to 6,300 kHz
  - AM/MW: 530.0 to 1,710.0 kHz
  - WB: 162.40 to 162.55 MHz
- Operating voltage: 12 V via CPA
- Operating temperature: -20 °C to +70 °C
- Format: 1 DIN
- Weight: 1,300 g
- Standards: CE, E1, FCC, RoHS

COACH POWER AMPLIFIER CPA 811
The CPA 811 class-D coach amplifier is a strong performer with its high signal strength for audio and video frequencies and the intercom connection. The CPA 811 is integrated into the Professional Line 3 system via a CAN connection.

- Two separate output stages, each with 2 x 20 watts for the driver and the passenger cabin
- Central power supply for all system components
- Trouble-free telephone use due to automatic muting of all other sound sources when a call comes in
- Connection option for other external sources via 12 V
- Intercom connection
- Operating voltage: 24 V
- Operating temperature: -20 °C to +70 °C
- Dimensions (W x H x D): 170 x 50 x 214.2 mm
- Weight: 1,800 g
- Standards: CE, E1, FCC, RoHS, WEEE

ADDITIONAL FEATURES TO THOSE OF THE CPA 811
- Three separate output stages with 2 x 20 watts of power for the driver area and 4 x 40 watts of power for the passenger cabin
- Line-out to connect an additional amplifier in a cascaded system

COACH POWER AMPLIFIER CPA 2011
The CPA 2011 class-D coach amplifier provides the foundations for perfect sound quality within the Professional Line 3 system. With its three output stages and cascading function, the CPA 2011 is ideally suited to installation in double-decker coaches.

- Two separate output stages, each with 2 x 20 watts of power for the driver and the passenger cabin
- Central power supply for all system components
- Trouble-free telephone use due to automatic muting of all other sound sources when a call comes in
- Connection option for other external sources via 12 V
- Intercom connection
- Operating voltage: 24 V
- Operating temperature: -20 °C to +70 °C
- Dimensions (W x H x D): 170 x 50 x 214.2 mm
- Weight: 1,800 g
- Standards: CE, E1, FCC, RoHS, WEEE

Bosch-Radios offer solutions specifically developed for the requirements of city and intercity buses, designed for use in 12-V and 24-V on-board networks. With connections for MP3 and USB via the front cover as well as an integrated DVD player (CAD12), an always state-of-the-art functional scope is guaranteed.
Coach smartInfotainment series

As a market leader for connected media functions, Bosch offers OEMs systems that make traveling more pleasant. Our smartInfotainment series supports DAB+ and is Bluetooth-enabled for streaming and telephony. Media playback in the passenger cabin is taken to the next level with a wide variety of audio and video sources, individually accessible content, and first-rate picture quality. smartInfotainment is in essence a state-of-the-art gateway to experiences for the driver and passenger alike.

Coach smartRadio
The Coach smartRadio provides several inputs for various media. Bluetooth audio streaming and the ability to use a hands-free function safely and conveniently make the Coach smartRadio a popular multimedia companion. With its CAN connection and smartphone integration capabilities, it fits in perfectly in the vehicle environment.

- Display color: red
- Single-line dot matrix display
- Integrated class-D amplifier with 2 x 40 watts of output power (can be optionally set to 2 x 20 watts)
- Radio: FM, AM, SW, DAB+
- USB port (type A)
- 2 x AUX-IN connections on the front panel and on the rear panel
- SD card (mini)
- Bluetooth telephony and media streaming
- Private mode function and USB charging
- 2 microphone connections
- Connection of the Coach smartPanel via tandem output
- CAN link
- Software updates via USB
- Tuner frequency ranges (depending on region):
  - FM: 87.5 to 108.0 MHz
  - AM: 531 to 1602 kHz
  - DAB (Band III): 174.928 to 329.200 MHz
  - Software: 3900 to 4000 kHz, 5850 to 6300 kHz, 7095 to 7500 kHz, 9325 to 9950 kHz
- Operating voltage: 24 V
- Operating temperature: –20 °C to +70 °C
- Standby current consumption: < 0.5 mA
- Format: 1-DIN
- Weight: 1,070 g
- Standards: CE/RED, UN ECE R10, UN ECE R118

Coach smartPanel
The panel is easy and intuitive to use in the driver’s cockpit, thus also making it safe to operate. The understated design blends in harmoniously with the cockpit interior. Through the tandem function, the Coach smartPanel together with the Coach smartRadio create a complete coach system that leaves nothing to be desired.

- Display color: red
- Single-line dot matrix display
- Integrated class-D amplifier with 4 x 40 watts of output power (can be optionally set to 4 x 20 watts)
- USB port for audio and video (type A)
- 2 x AUX-IN connections (one on the front panel and one on the rear panel) for connecting an external audio/video source to each one
- SD card (mini) for audio and video
- 2 x microphone connections for announcements
- Control of the Coach DVB-T2 Tuner via CAN
- Tandem mode with Coach smartRadio
- CAN link
- Software updates via USB
- Operating voltage: 24 V
- Operating temperature: –20 °C to +70 °C
- Weight: 1,040 g
- Standards: CE/RED, UN ECE R10, UN ECE R118
Coach Radio

Besides their use in coaches, Bosch radios are also tailored to the requirements of city buses and intercity buses. Solutions developed in-house for 12 V and 24 V vehicle electrical systems are used here. USB devices can be connected via the front panel. An integrated DVD player (CAD 12) rounds off the feature set.

**COACH RADIO CR 24**

For use in 24 V vehicle electrical systems, Bosch offers the CR 24, a radio unit that has been designed to satisfy the highest requirements. The wide variety of connection and playback options for external sources make the CR 24 a multifunctional travel companion. Personal configurations ensure the optimum sound output.

- Display color: red
- Integrated amplifier with 2 x 20 watts of output power
- Connection option for a subwoofer and an additional amplifier
- CD MP3 drive for audio-CD, CD-R, CD-RW with WMA/MP3 files
- Radio: FM, AM/MW, LW, WB
- USB and AUX-IN slots on the front panel
- Microphone input
- The CR 24 can be switched on by using the microphone or the telephone
- Tuner frequency ranges (depending on region):
  - FM: 87.5 to 108.0 MHz
  - AM/MW: 530.0 to 1,710.0 kHz
  - LW: 153.0 to 279.0 kHz
- Operating voltage: 24 V
- Operating temperature: –20 °C to +70 °C
- Quiescent current consumption: <0.5 mA
- Format: 1 DIN
- Standards: CE, E1, EMC, FCC, RoHS, WEEE

**COACH AUDIOAMPLIFIER 12.24**

The Coach AudioAmplifier 12.24 microphone amp is suitable for all coaches with a 12 V or 24 V electrical system. It is equipped with two inputs and produces a rich and powerful sound for microphone announcements. To adjust the output quality further, both of the connected microphones can be matched by adjusting the levels. The integrated priority circuit makes it possible to prioritize announcements.

- 2 x 20 watt output power
- Any installation position
- Operating voltage: 12 V / 24 V
- Operating temperature: –20 °C to +70 °C
- Dimensions (W x H x D): 167 x 55 x 97.5 mm
- Weight: 670 g
- Standards: CE, E1, RoHS
**Coach Radio**

**COACH DVD RADIO CAD 12**
The CAD 12 multimedia system offers a great many connection options and functions in the accustomed original-equipment quality. Despite its very compact size, it includes a great many functions that benefit both the driver and passengers, like radio, CD, MP3, DVD, USB, and AUX-IN.

- Display color: red
- Integrated amplifier with 2 x 20 watts of output power
- DVD drive with available regional codes: RC1, RC2, RC4, RC5
- Radio: FM, SW, AM/MW, LW, WB
- USB and AUX-IN slots on the front panel
- Microphone input
- Convenient remote control via separate IR receiver (optionally available)
- Tuner frequency ranges (depending on region):
  - FM: 87.5 to 108.0 MHz
  - SW: 5,800 to 6,300 kHz
  - AM/MW: 530.0 to 1,710.0 kHz
  - LW: 153.0 to 279.0 kHz
  - WB: 162.40 to 162.55 MHz
- Operating voltage: 12 V
- Operating temperature: -20 °C to +70 °C
- Quiescent current consumption: <1 mA
- Format: 1 DIN
- Standards: CE, E1, FCC, MVS S302, RoHS

**MINIBUS RADIO MR 12**
Specially designed for use in bus systems with a 12 V electrical system, the MR 12 is equipped with an integrated tuner and all the popular connections for further external CE sources. This makes the MR 12 a solid entertainment solution that you can depend on.

- Display color: red
- Integrated amplifier with 2 x 20 watts of output power
- Radio: FM, AM/MW, LW, WB
- USB and AUX-IN slots on the front panel
- Microphone input
- The MR 12 switches on automatically when the microphone is used
- Tuner frequency ranges (depending on region):
  - FM: 87.5 to 108.0 MHz
  - AM/MW: 530.0 to 1,710.0 kHz
  - LW: 153.0 to 279.0 kHz
- Operating voltage: 12 V
- Operating temperature: -20 °C to +70 °C
- Quiescent current consumption: <0.5 mA
- Format: 1 DIN
- Standards: CE, E1, EMC, FCC, RoHS, WEEE
Microphones

Microphones from Bosch are tailored to the needs of the driver and tour guide. Ergonomic, user-centric design is coupled with a comprehensive range of functions and excellent audio quality.

**COACH DYNAMIC MICROPHONE CDM 08/CDM 08 GSM**

Making announcements during the journey is made easy thanks to the CDM 08 and CDM 08 GSM goose-neck microphones. The flexible design allows the microphone to be adapted to the ergonomic needs of the driver. The innovative microphone head prevents feedback and interference. The CDM 08 GSM additionally allows phone calls to be made in private mode. The conversation is heard only by the driver and caller and is not output over the cockpit loudspeakers.

- Dynamic microphone
- Safe and convenient due to reinforced microphone base and flexible microphone neck
- Mounting to the left or right of the driver’s seat (with optional accessories)

**OPTIONAL FOR THE CDM 08 GSM**

- Telephone hands-free operation with conventional GSM hands-free device
- Operating temperature: –20 °C to +70 °C
- Frequency response: 100 to 12,000 Hz
- Gooseneck diameter: 6 mm
- Total length: 500 mm

**BOSCH HANDHELD MICROPHONE BHM 09**

The BHM 09 has been specially designed for professional use in a Bosch Coach Multimedia system. The BHM 09 enables the tour guide to easily make announcements at any time. The extensive range of accessories ensures the microphone can be stored safely in the cockpit and provides the speaker with ample freedom of movement.

- Dynamic microphone
- Integrated wind protection
- Operating temperature: –20 °C to +70 °C
- Frequency response: 100 to 10,000 Hz
- Total length: 138 mm

**BOSCH GOOSENECK MICROPHONE BGM 09**

With the sturdy BGM 09 gooseneck microphone, the driver can make announcements at any time, even when the multimedia system is switched off.

- Dynamic microphone
- Integrated wind protection
- Optional for the BGM 09
- Foot switch to activate the microphone
- Operating temperature: –20 °C to +70 °C
- Frequency response: 100 to 10,000 Hz
- Gooseneck diameter: 6 mm
- Total length: 800 mm
Microphones

THE MICROPHONE IS COMPATIBLE WITH THE FOLLOWING BOSCH MULTIMEDIA COACH SYSTEMS AND RADIO
- Coach Professional Line 3
- Coach smartInfotainment series
- CMS
- CR 24
- MR 12
- CAD 12
- Coach AudioAmplifier 12 24

THE MICROPHONE IS COMPATIBLE WITH THE FOLLOWING BOSCH MULTIMEDIA COACH SYSTEMS AND RADIO
- Coach Professional Line 3
- Coach smartInfotainment series
- CMS
- CR 24
- MR 12
- CAD 12
- Coach AudioAmplifier 12 24

COACH WIRELESS MICROPHONE SYSTEM E
This wireless microphone is specially designed for professional use in coaches. The microphone provides the tour guide with considerable freedom of movement and interference-free transmission.

SCOPE OF SUPPLY
- Charging station (2-piece, pre-assembled)
- Connecting cable (preparation)

COACH CHARGINGSTATION D
The Coach ChargingStation D (dashboard) positions the Coach Wireless Microphone securely in the cockpit area. This charging station has been designed for mounting in the dashboard of coaches that have a 12 V or 24 V electrical system.

SCOPE OF SUPPLY
- Charging station (2-piece, pre-assembled)
- Baseplate
- 6 screws (for fastening the charging station to the baseplate)
- Connecting cable (preparation)

COACH CHARGINGSTATION W
The Coach ChargingStation W (wall) is an additional option for the Coach Wireless Microphone. This charging station has been designed for wall-mounting in coaches that have a 12 V or 24 V electrical system.

SCOPE OF SUPPLY
- Charging station (2-piece, pre-assembled)
- Baseplate
- 6 screws (for fastening the charging station to the baseplate)
- Connecting cable (preparation)

The Coach ChargingStation recharges your microphone quickly and automatically. The holder at the same time ensures the microphone is stored safely during the journey.
Bosch loudspeakers ensure announcements can be heard clearly and produce an impressive sound for movies and music. The various models are available in many different sizes and colors and for a wide range of installation depths to accommodate individual requirements.

### MAS – Multichannel Audio System

The Multichannel Audio System (MAS) from Bosch keeps passengers entertained with up to eight individually selectable stereo programs. Up to 100 seat modules are supplied with media content via a central component, the MAS Head Station. Passengers are therefore offered a more personalized entertainment experience.

#### MAS HEAD STATION 02

The MAS Head Station 02 can accommodate up to eight audio sources and distribute them to a maximum of four trunk lines. Up to 25 seat modules can be connected to each of these trunk lines. So, with four trunk lines, it is possible to supply 100 seats with individually selectable entertainment.

- Unrestricted installation position
- Variable design options for the MAS according to vehicle requirements
- Uniform volume level due to integrated gain setting
- Operating voltage: 24 V
- Operating temperature: -10 °C to +55 °C
- Dimensions (W x H x D): 213.0 x 50.0 x 217.5 mm
- Weight: 1,400 g
- Standards: CE, FCC, RoHS

#### MAS SEAT MODULE

Passengers can select their preferred audio program (radio, CD, TV or video) at any time via the MAS Seat Module. The display shows all the channels that are available. The passenger can then make a selection and adjust the volume.

#### Loudspeakers

Bosch loudspeakers ensure announcements can be heard clearly and produce an impressive sound for movies and music. The various models are available in many different sizes and colors and for a wide range of installation depths to accommodate individual requirements.

#### AL 100

- Max. load: 25 W
- Sensitivity: 87 dB
- Frequency response: 80 to 20,000 Hz
- Installation depth: 44 mm
- Diameter: 100 mm
- Nominal resistance: 4 Ω / 4 Ω
- Grille color: black
- Packaging unit with grill: 2 pcs
- Packaging unit without grill: 36 pcs

#### AL 120

- Max. load: 30 W
- Sensitivity: 87 dB
- Frequency response: 70 to 20,000 Hz
- Installation depth: 28 mm
- Diameter: 114 mm
- Nominal resistance: 4 Ω / 8 Ω
- Grille color: gray
- Packaging unit with grill: 16 pcs
- Packaging unit with grill: 24 pcs

#### AL 130

- Max. load: 50 W
- Sensitivity: 88 dB
- Frequency response: 70 to 20,000 Hz
- Installation depth: 50 mm
- Diameter: 115 mm
- Nominal resistance: 4 Ω / 4 Ω
- Grille color: black
- Packaging unit with grill: 16 pcs
- Packaging unit with grill: 24 pcs

### Specifications

- Maximun load
- Sensitivity
- Frequency response
- Installation depth
- Diameter
- Nominal resistance
- Grille color
- Packaging unit with grill
- Packaging unit without grill

### Standards

- CE
- FCC
- RoHS
- WEEE
Excellent image quality – with Coach Video

Multimedia technologies from Bosch cater to every requirement, providing high-speed Wi-Fi connectivity and first-rate picture quality on all displays. Bosch displays have space-saving designs, are equipped with an internal temperature management system, and can be integrated into any coach interior. Our flat-panel displays set new standards in terms of technology, installation, and design.
### Mobile Entertainment

**COACH MEDIAROUTER**

The MediaRouter is a mobile Wi-Fi hotspot. Passengers can access the internet on their mobile devices. In addition, a local media library provides a selection of top entertainment that passengers can choose from according to their tastes and then stream to their smartphone or tablet. This automotive media hotspot handles multiple SIM cards and includes effective bandwidth management. The Coach MediaRouter is therefore the perfect mobile entertainment center.

- Broadband internet access via LTE mobile communications LTE, HSDPA, GPRS, LTE/HSPA + EDGE/GPRS/GSM
- Transmission of music, pictures and video files via Wi-Fi hotspots
- Automatic connection
- Variable setting of number of clients
- Connection of USB flash drives

**COACH DVB-T2-TUNER**

Nowadays we expect mobile TV to be digital and offer interference-free reception and ultra-sharp picture quality. The DVB-T2-Tuner from Bosch is one of the first to provide HD quality in coaches. It has an integrated USB port that is not only useful for updating the software but also for importing audio and video files into the coach system. In addition, further audio and video sources can be connected to the DVB-T2-Tuner and controlled using a remote control. Even on tours that go through several countries, optimal reception of encrypted TV channels is assured thanks to the integrated CI slot. The DVT-T2-Tuner is compatible with the Coach smartInfotainment system as well as earlier systems.

- Wavebands:
  - 800/900/1,800/2,100/2,600 MHz
  - 850/900/2,100 MHz
  - 850/900/1,800/1,900 MHz
- Wi-Fi: 802.11a/b/g/n; 2.4 GHz
- Operating voltage: 12/24 V
- Operating temperature: –40 °C to +85 °C
- Dimensions (W x H x D): 150 x 110 x 30 mm
- Weight: <500 g
- Enclosure type: IP30
- Standards: CE, E1, R&TTE, MVSS 302, ECE R118

- Video formats:
  - 352 x 240 x 30 p
  - 352 x 288 x 25 p to 1,920 x 1,088 x 60 i
  - 1,280 x 720 x 60 p/50 p
- Audio formats:
  - MPEG-1/2; Layer 1 & 2: 16 to 48 kHz, Layer 1: 32 to 448 kbps, Layer 2: 32 to 384 kbps
  - MPEG-2/4; AAC-LC, 8 to 96 kHz, 8 to 576 kbps
- OSD menu languages: German, English, French, Spanish, Italian
- Operating voltage: 12/24 V
- Standards: CE, E symbol

In combination with smartInfotainment series:

- USB for external audio/video source
- 2 x A/V AUX-IN
- CAN connection

Available from 03/2018
Monitors

19" LCD-LED PREMIUM DESIGN
This Premium Design monitor with a VGA interface and capture logo function produces an ultra-sharp and high-contrast picture. The 16:9 format provides a cinematic experience. The passenger-optimized viewing angle ensures a great view from any seat.

19" LCD-LED PREMIUM SWIVEL MONITOR
Thanks to its patented safety clutch, the 19" LCD-LED Premium Swivel Monitor is the ideal legal solution for installation in the aisle (ECE R107). The mechanism allows the monitor to be easily swiveled forwards or backwards in the event of an emergency. This monitor is likewise equipped with a VGA interface and a passenger-optimized viewing angle. The customer's own logo can, if desired, be imported into the monitor and used as the start-up screen.

15" LCD ECOLINE
The 15" LCD EcoLine monitor offers outstanding picture quality that will delight passengers. This functionally optimized 4:3 monitor is unrivalled in its class and naturally also allows customers to import their own logo for the start-up screen.

15,4" LCD BASIC
Sturdily built, but nevertheless incorporating state-of-the-art technology, this functionally optimized 15.4" LCD Basic Monitor with a wide-screen format offers first-rate performance for great movie entertainment.
Monitors

7” COCKPIT DISPLAY
The 7” Cockpit Display is an LCD monitor designed for installation in the driver’s workplace. In combination with the Professional Line 3 system, the 7” Cockpit Display can also be used for door surveillance in the coach. The display is versatile and can be installed in many different locations in the vehicle. Thanks to the integrated infrared sensor, it is possible to control the Professional Line 3 system using a separate remote control.

- Screen diagonal: 180 mm
- Screen format: 5:3
- Viewing angle: (H/V): +/-65° / +/-55°
- Resolution at 60 Hz: 88 x 480 pixels
- LCD brightness: 350 cd/m²
- System: PAL, NTSC, SECAM
- Adjustable parameters: brightness, contrast, color saturation, color tone, format
- Operating voltage: 12/24 V
- Operating temperature: –20 °C to +66 °C
- Dimensions (W x H x D): 188 x 120 x 50 mm
- Weight: 720 g
- Standards: E1, FCC, CE, ECE R118, RoHS, EG 95/28

VIDEOBOX MONITOR
The VideoBox Monitor displays video and door surveillance views on a 7” 16:9 format LCD screen. It is installed in clear view in the coach dashboard and connected to the VideoBox.

- Picture diagonal: 475 mm
- Picture format: 16:10
- Viewing angle (H/V): +80°/–80°
- Resolution: 1,440 x 900 pixels
- LCD brightness: ≥250 cd/m²
- Systems: PAL, NTSC, SECAM
- Setting parameters: brightness, contrast, color saturation, color tone, format
- Operating voltage: 12/24 V
- Operating temperature: –20 °C to +70 °C
- Dimensions (W x H x D): 212.0 x 139.0 x 43.0 mm
- Weight: 400 g
- Standards: CE, E1, FCC, RoHS, WEEE

VIDEOBOX
The VideoBox is the central signal-distribution interface. It is used for displaying door surveillance video and other video signals on the monitors. The VideoBox operates on a 12/24 V operating voltage.

- Operating voltage: 12/24 V
- Operating temperature: –20 °C to +70 °C
- Dimensions (W x H x D): 212.0 x 139.0 x 43.0 mm
- Weight: 400 g
- Standards: CE, E1, FCC, RoHS, WEEE
We ensure your passengers enjoy an uninterrupted movie experience. All Bosch video components are perfectly matched to one another, intuitive to use, and are therefore a popular addition in any coach.

**DVD VIDEO PLAYER DVP 08 C**

Intuitive technology and sturdy components make this automotive DVD video player a durable and popular addition in any coach. The drive is equipped with a last-memory function, and subtitles can be enabled for all supported languages at the press of a button.

- Display color: red
- DVD/CD/MP3 drive with available regional codes: RC1, RC2, RC4, RC5
- Subtitle function
- Line-in for second video source (Sat TV, DVB-T)
- Easy control via separate IR receiver optionally available

- Operating voltage: 24 V
- Operating temperature: –20 °C to +70 °C
- Format: 1 DIN
- Weight: 1,300 g
- Standards: CE, E1, FCC, RoHS, WEEE

**CAMERA SWITCH**

The camera switch can be integrated directly into the 12 V or 24 V vehicle electrical system. It supplies up to four connected cameras and an optional monitor with a constant voltage of 12 V. The camera switch can be operated manually.

- Operating voltage: 12/24 V
- Operating temperature: 0 °C to +70 °C
- Dimensions (W x H x D): 180.0 x 26.0 x 108.0 mm
- Weight: 414 g
- Standards: CE, E1, RoHS, WEEE

**VGA SPLITTER**

The VGA splitter can be used to connect several monitors equipped with a VGA interface to a single computer.

- Operating voltage: 12/24 V
- Operating temperature: –20 °C to +70 °C
- Dimensions (W x H x D): 139.0 x 29.0 x 67.0 mm
- Weight: 225 g
- Standards: CE, E1, FCC, RoHS, WEEE

**VIDEO AMPLIFIER**

This amplifier ensures a consistently excellent picture quality even when operating multiple monitors.

- Operating voltage: 24 V
- Operating temperature: 0 °C to +70 °C
- Dimensions (W x H x D): 140.5 x 29.3 x 82.5 mm
- Weight: 250 g
- Standards: CE, E1, FCC, RoHS, WEEE

**AUDIO/VIDEO SWITCH**

The audio/video switch makes it possible to connect two video sources to the coach multimedia system.

- Operating voltage: 12/24 V
- Operating temperature: –20 °C to +70 °C
- Dimensions (W x H x D): 157.5 x 35.5 x 87.0 mm
- Weight: 350 g
- Standards: CE, E1, FCC, RoHS, WEEE
Enhance as required – with coach accessories

As a system supplier with many years of experience, Bosch always provides an excellent range of suitable accessories. Whether you are looking for a camera switch, CVBS/RGB converter, or simply a new cable, you will find exactly what your system needs. Loudspeakers and amplifiers specially designed for commercial vehicles complete the range.

RGB/CVBS CONVERTER
This high-performance converter enables you to display map views from the Coach Navigation PX-V on the monitors.

- Operating voltage: 12/24 V
- Operating temperature: –20 °C to +70 °C
- Dimensions (W x H x D): 178.0 x 39.3 x 101.0 mm
- Weight: 500 g
- Standards: CE, E1, FCC, RoHS, WEEE

CVBS/RGB CONVERTER
This converter makes it possible to display video signals (e.g. from the rear-view camera) on the Bosch cockpit monitor.

- Operating voltage: 12/24 V
- Operating temperature: –20 °C to +70 °C
- Dimensions (W x H x D): 170.0 x 39.0 x 109.1 mm
- Weight: 470 g
- Standards: CE, E1, FCC, RoHS, WEEE
## Product Overview

### COACH AUDIO

<table>
<thead>
<tr>
<th>PROFESSIONAL LINE 3</th>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS Professional Premium (RC2)</td>
<td>7620 200 062</td>
<td>6</td>
</tr>
<tr>
<td>CCS Professional Premium (RC1)</td>
<td>7620 200 061</td>
<td>6</td>
</tr>
<tr>
<td>CCS Professional Premium (RC4)</td>
<td>7620 200 064</td>
<td>6</td>
</tr>
<tr>
<td>CCS Professional Premium (RC5)</td>
<td>7620 200 065</td>
<td>6</td>
</tr>
<tr>
<td>CCD Professional Bluetooth</td>
<td>7620 200 051</td>
<td>8</td>
</tr>
<tr>
<td>CCD Professional</td>
<td>7620 200 052</td>
<td>8</td>
</tr>
<tr>
<td>CPA 811</td>
<td>7620 200 057</td>
<td>9</td>
</tr>
<tr>
<td>CPA 2011</td>
<td>7620 200 058</td>
<td>9</td>
</tr>
<tr>
<td>Videobox</td>
<td>7620 200 059</td>
<td>29</td>
</tr>
<tr>
<td>Videobox Monitor</td>
<td>7620 310 041</td>
<td>28</td>
</tr>
</tbody>
</table>

### COACH RADIO

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 12 (RC2)</td>
<td>7620 210 015</td>
</tr>
<tr>
<td>CAD 12 (RC1)</td>
<td>7620 210 020</td>
</tr>
<tr>
<td>CAD 12 (RC4)</td>
<td>7620 210 021</td>
</tr>
<tr>
<td>CAD 12 (RC5)</td>
<td>7620 210 022</td>
</tr>
<tr>
<td>MR 12</td>
<td>7620 210 017</td>
</tr>
<tr>
<td>CR 24</td>
<td>7620 210 016</td>
</tr>
<tr>
<td>Coach smartRadio</td>
<td>7620 210 042</td>
</tr>
<tr>
<td>Coach smartPanel</td>
<td>7620 210 041</td>
</tr>
</tbody>
</table>

### AMPLIFIERS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAA</td>
<td>7620 220 012</td>
</tr>
</tbody>
</table>

### MICROPHONES

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDM 08 GSM</td>
<td>7620 230 018</td>
</tr>
<tr>
<td>CDM 08</td>
<td>7620 230 019</td>
</tr>
<tr>
<td>BGM 09 S</td>
<td>7620 230 025</td>
</tr>
<tr>
<td>BGM 09</td>
<td>7620 230 024</td>
</tr>
<tr>
<td>Mounting bracket for BGM 09/BGM 09 S</td>
<td>7607 022 001</td>
</tr>
<tr>
<td>Foot switch for BGM 09/BGM 09 S</td>
<td>7607 005 710</td>
</tr>
<tr>
<td>BHM 09</td>
<td>7620 230 012</td>
</tr>
<tr>
<td>Mounting clip for BHM 09 S</td>
<td>7620 270 000</td>
</tr>
<tr>
<td>Mounting sleeve for BHM 09 S</td>
<td>7620 270 001</td>
</tr>
<tr>
<td>Microphone switch</td>
<td>7620 230 022</td>
</tr>
</tbody>
</table>

### MAS – MULTI-CHANNEL AUDIO SYSTEM

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAS Head Station 02</td>
<td>7620 240 004</td>
</tr>
<tr>
<td>MAS Seat Module, clip-in</td>
<td>7620 240 016</td>
</tr>
<tr>
<td>MAS Seat Module, screw-in</td>
<td>7620 240 017</td>
</tr>
<tr>
<td>MAS distributor</td>
<td>7607 006 318</td>
</tr>
<tr>
<td>MAS terminating resistor</td>
<td>7607 006 029</td>
</tr>
</tbody>
</table>

### SPEAKERS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL 100 with grille (4 Ω)</td>
<td>7620 250 014</td>
</tr>
<tr>
<td>AL 100 without grille (4 Ω)</td>
<td>7620 250 016</td>
</tr>
<tr>
<td>AL 120 with grille (4 Ω)</td>
<td>7620 250 011</td>
</tr>
<tr>
<td>AL 120 without grille (4 Ω)</td>
<td>7620 250 012</td>
</tr>
<tr>
<td>AL 130 with grille (4 Ω)</td>
<td>7620 250 015</td>
</tr>
<tr>
<td>AL 130 without grille (4 Ω)</td>
<td>7620 250 018</td>
</tr>
</tbody>
</table>

### COACH VIDEO

### MOBILES ENTERTAINMENT

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVB-T2-Tuner</td>
<td>7620 320 031</td>
</tr>
<tr>
<td>4 antennas for the DVB-T tuner</td>
<td>7620 340 025</td>
</tr>
<tr>
<td>MediaRouter</td>
<td>7620 320 029</td>
</tr>
</tbody>
</table>

### MONITORS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>19&quot; LCD-LED Premium Design</td>
<td>7620 310 034</td>
</tr>
<tr>
<td>19&quot; LCD-LED Premium Swivel Monitor</td>
<td>7620 310 067</td>
</tr>
<tr>
<td>Bracket for 19&quot; LCD-LED Premium Swivel Monitor</td>
<td>7620 340 001</td>
</tr>
<tr>
<td>Magnet Set 19&quot; 27,5 mm</td>
<td>7620 270 002</td>
</tr>
<tr>
<td>Magnet Set 19&quot; 20,0 mm</td>
<td>7620 270 003</td>
</tr>
<tr>
<td>15&quot; LCD EcoLine</td>
<td>7620 310 018</td>
</tr>
<tr>
<td>15,4&quot; LCD Basic</td>
<td>7620 310 040</td>
</tr>
<tr>
<td>Videobox Monitor</td>
<td>7620 310 041</td>
</tr>
<tr>
<td>7&quot; Cockpit Display</td>
<td>7620 310 061</td>
</tr>
</tbody>
</table>

### VIDEO SOURCES

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD Video Player DVP-08 C (RC2)</td>
<td>7620 320 024</td>
</tr>
<tr>
<td>DVD Video Player DVP-08 C (RC5)</td>
<td>7620 320 028</td>
</tr>
<tr>
<td>IR eye 5m cable for DVP-08 C</td>
<td>7607 005 726</td>
</tr>
<tr>
<td>RGB/CVBS converter (NTSC)</td>
<td>7620 330 001</td>
</tr>
<tr>
<td>Audio/video switch</td>
<td>7620 330 002</td>
</tr>
<tr>
<td>VGA splitter</td>
<td>7620 330 005</td>
</tr>
<tr>
<td>Video amplifier</td>
<td>7620 330 007</td>
</tr>
</tbody>
</table>
## Product Overview

### COACH ACCESSORIES

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 620 500 004</td>
<td>31</td>
</tr>
<tr>
<td>7 620 500 025</td>
<td>33</td>
</tr>
</tbody>
</table>

### COACH Zubehörkabel

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 620 280 021</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 023</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 024</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 041</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 042</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 044</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 067</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 047</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 048</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 049</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 056</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 057</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 061</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 070</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 089</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 090</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 092</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 091</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 094</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 093</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 095</td>
<td>31</td>
</tr>
<tr>
<td>7 607 181 001</td>
<td>31</td>
</tr>
<tr>
<td>7 620 230 113</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 107</td>
<td>31</td>
</tr>
<tr>
<td>7 620 230 115</td>
<td>31</td>
</tr>
</tbody>
</table>

### MICROPHONES

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 620 280 089</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 090</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 092</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 091</td>
<td>31</td>
</tr>
<tr>
<td>7 607 006 436</td>
<td>31</td>
</tr>
<tr>
<td>7 607 006 437</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 035</td>
<td>31</td>
</tr>
<tr>
<td>7 620 270 007</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 041</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 069</td>
<td>31</td>
</tr>
</tbody>
</table>

### VIDEO SOURCES

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 620 280 056</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 061</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 067</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 068</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 069</td>
<td>31</td>
</tr>
</tbody>
</table>

### NAVIGATION

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 620 280 036</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 071</td>
<td>31</td>
</tr>
<tr>
<td>7 607 006 429</td>
<td>31</td>
</tr>
<tr>
<td>7 607 006 430</td>
<td>31</td>
</tr>
<tr>
<td>7 607 006 431</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 410</td>
<td>31</td>
</tr>
<tr>
<td>7 607 006 410</td>
<td>31</td>
</tr>
</tbody>
</table>

### MOBILE ENTERTAINMENT

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 620 280 086</td>
<td>31</td>
</tr>
<tr>
<td>7 620 280 087</td>
<td>31</td>
</tr>
</tbody>
</table>

### MONITORS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 620 280 086</td>
<td>31</td>
</tr>
<tr>
<td>7 607 263 000</td>
<td>31</td>
</tr>
<tr>
<td>7 607 263 001</td>
<td>31</td>
</tr>
</tbody>
</table>

### COLOR CAMERA

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 998 101 884</td>
<td>31</td>
</tr>
</tbody>
</table>
Bosch has a network of service centers in all European countries that are popular holiday destinations. The staff there will be delighted to assist you with their technical know-how. To get you on the road again quickly, solutions for technical problems are found on the spot. An up-to-date list of our service partners is available online at: www.bosch-professional-systems.com