Domino Classic
Personal hearing system

Domino Classic is a personal hearing system that helps you hear better in most everyday situations, whether you use hearing aids or just suffer the occasional hearing difficulty.

Digital signal processing. Domino Classic uses digital state-of-the-art signal processing technology. As a result, the system delivers music and speech with incredible detail, even in difficult listening situations.

Worry free communication. Domino Classic uses the 2.4 GHz global frequency standard for wireless broadband communication, just like your Wi-Fi computer at work. This means you can use Domino Classic anywhere in the world.

The system uses secure 128-bit digital encryption technology which makes it virtually impossible to eavesdrop.

Pocket size and super light. The units are as small as a modern cell phone and weigh just 2½ oz each. So they can be kept discreetly in your pocket without weighing you down.

Easy to use. The system is virtually intuitive to use. All functions are accessed with the simple press of a button and there are no complicated menus to navigate.

Long lasting power. The units are powered with rechargeable lithium-ion batteries, just like a modern cell phone. So you never need to worry about buying new batteries.

Enjoy music and TV. Connect the Domino Classic transmitter to your TV or stereo system and enjoy wireless broadband Hi-fi sound at your own volume.

High quality. Domino Classic is designed by Bellman & Symfon of Sweden and comes with a two-year worldwide warranty.

Features

- Digital signal processing
- Sound with incredible detail
- Encrypted broadband link
- Secure from eavesdropping
- Easy to use
- Be up and running within minutes
- Pocket size and light
- Fits discreetly in your pocket

Television, MP3 player, stereo

Wireless broadband link

Hearing aids, earphones etc.

Speech

Transmitter

Receiver

Speech

Domino Classic transmitter to your TV or stereo system and enjoy wireless broadband Hi-fi sound at your own volume.

Domino Classic is designed by Bellman & Symfon of Sweden and comes with a two-year worldwide warranty.
The package, BE8015 includes everything you normally need in order to use your system.

- **BE2250 Receiver unit**
- **BE2270 Transmitter unit**
- **BE9142 USB universal charger including 4 mains plugs for EU, GB, US and AU**
- **BE9147 Black canvas travel case**
- **BE9124 In-ear stereo earphones**
- **BE9135 Neck straps with safety clasp and polished stainless steel belt clips**
- **User manual**
- **Available bundled with BE9159 Neck loop (BE8017)**

**Power and battery**

- Built in rechargeable lithium-ion battery on both units
- Operating time: 8-12 hours (With included light weight battery)
- Charging time: 2.5 hours (With included light weight battery)

**Acoustic specifications**

- Maximum output using BE9124 earphones: 132 dB SPL
- Gain at full volume using BE9124 earphones (60 dB SPL input signal): 57.5 dB @ 1kHz 56 dB HFA
- Distortion Using BE9124 0.08 % THD
  Using BE9122 0.6 % THD

**Radio communication**

- Frequency: 2.4 GHz, uses 3 frequencies
- Range: 25 m indoors, clear line of sight
  100 m outdoors, clear line of sight
- Characteristics:
  Encrypted communication
  Automatic channel searching
  Coexists with other radio transmitters operating on the 2.4 GHz frequency band

**Environmental requirements**

- Operating temperature: 32° to 95° F (0° to 35° C)
- Relative humidity: 5% to 95% (non condensing)

**Regulatory requirements**

- Complies with the following requirements:
  CE, FCC, RoHS, WEEE, RCM and UL

**Input signals**

- Microphones: Built in omni directional microphones on both units
- External sound source input: 2.5 mm stereo jack plug (0 dBV max input signal)

**Output signals**

- Headphone socket: 3.5 mm stereo jack plug
- Distortion: 0.05% THD (electrical)
- Frequency range: 40-10 000 Hz
- Tone control: 9 steps
- Volume control: 9 steps, cut-off frequency 1.6 kHz
- Output power: 100 mW (16 Ω load)

**Technical specifications**

**Size and weight**

- Height: 3.9”, 99 mm
- Width: 1.9”, 48 mm
- Depth: 0.9”, 22 mm
- Weight: 2.4 oz, 74 grams / unit

**Receiver button and controls**

- **Volume**
- **Tone**
- **Int. Mic. selector**
- **LED indicator**
- **Microphone**
- **Headphone socket**
- **Volume/Tone indicator**
- **Charger input**
- **Ext. sound selector**
- **Charger input**

**Transmitter button and controls**

- **Pairing with receiver**
- **LED for battery status**
- **Microphone**

**Accessories**

- **BE2250 Additional receiver unit**
- **BE9122 Stereo headphones**
- **BE9124 Stereo in-ear earphones**
- **BE9125 Stetoclips**
- **BE9127 Tie-clip microphone**
- **BE9126 Cable kit, 5 m (stereo) incl. adapter from 3.5 mm stereo tele jack to RCA (phono)**
- **BE9159 Neck loop**
- **BE9143 USB car charger**

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Bellman.com
In-depth technical information

Features
- Digital Signal Processing, DSP
- Omni directional microphones on both units
- Dynamic range compressor
- Dynamic noise reduction
- Adaptive feedback manager
- Radio transmission using broadband technology
  - Uses the non-licensed 2.4GHz ISM band
  - One transmitter to one or multiple receivers
- Intuitive user interface
  - LED light bar for excellent readability
  - Clear indication of Volume, Tone, Mic & RF mode
  - Low battery warning indicator
- Auxiliary stereo signal input (2.5 mm tele jack)
- Headphones stereo output (3.5 mm tele jack)
- Mix mode mixes sound from transmitter and receiver
- Auto mute when switching between signal sources
- High gloss finish to minimize handling sound
- Requires no individual fitting
- Built-in rechargeable lithium-ion batteries
- BE9142 USB universal charger with 4 mains plugs for EU, GB, US & AU are included
- BE9147 Black canvas travel case included
- BE9124 Earphones included
- BE9135 Neck straps with safety clasp and polished stainless steel belt clips included
- Available bundled with BE9159 Neck loop (BE8017)
- Supported configuration
  - 1 Domino Pro transmitter and 1+ Domino Classic receiver(s) and 1+ Domino Pro receiver(s).
- Non recommended configuration
  - 1 Domino Classic transmitter and 1+ Domino Classic receiver(s) and 1+ Domino Pro receiver(s).

Technical specifications
- Dimensions: 99 mm (h) x 48 mm (b) x 22 mm (d)
- Weight: BE2250: 74 g, BE2270: 70 g
- Batteries: Built-in rechargeable lithium-ion, 617 mAh
- Operating time: 8-12 hours (fully charged)
- Charging time: 2.5 hours (max)
- Ext. Mic./Aux. in connector: 2.5 mm stereo tele jack
- Headphones connector: 3.5 mm stereo tele jack
- Volume and Tone control: 9 steps
- Power switch: On/Off toggle button
- Mic and RF mode: Separate mode select buttons
- External microphone / Aux in selects automatically when plugged in
- Dynamic Range Compressor
  - Dynamic gain range: 0-35 dB
  - Compression: 3:1
  - Expansion: 1:1.5
  - Attack time: 20 (25) ms (≥3 kHz)
  - Release time: 110 (200) ms (≥3 kHz)
- 10 channel dynamic noise reduction
- Adaptive phase-invert feedback cancellation
- Digital signal processing
  - 22 050 kHz sampling frequency
  - 16 bit resolution in stereo
- Digital radio transmission
  - 2.4 GHz ISM band, 3 channels
  - Automatic channel allocation
  - 128 bit encryption
- Topology: Point-to-point or point-to-multipoint
- Diversity
  - 2 antennas receive, 1 antenna transmits Rx + Rx/Tx
- Radio range
  - 25 m indoors, clear line of sight
  - 100 m outdoors, clear line of sight
- Transmitter output power: max 25 mW

Acoustic specifications
- Maximum output saturation
  - Using BE9124 Earphones
    - BE2250: 148.3 dB SPL / BE2270: 148.3 dB SPL @ 2 kHz
  - Using BE9125 Stetoclips
    - BE2250: 133.7 dB SPL / BE2270: 133.6 dB SPL @ 1 kHz
- Gain, full volume (1 kHz, 60 dB SPL input signal)
  - Using BE9124 Earphones
    - BE2250: 42.5 dB / BE2270: 44.0 dB
  - Using BE9125 Stetoclips
    - BE2250: 58.2 dB / BE2270: 64.2 dB
- Gain, full volume (60 dB SPL input signal, HFA)
  - Using BE9124 Earphones
    - BE2250: 46.5 dB / BE2270: 49.0 dB
  - Using BE9125 Stetoclips
    - BE2250: 51.5 dB / BE2270: 56.0 dB
- Distortion
  - Using BE9124 Earphones
    - 0.6 % THD
  - Using BE9125 Stetoclips
    - 0.08 % THD

Electrical specifications
- Output power tele-jack: 100 mW at 16 Ω load
- Impedance, headphones: 8 – 72 Ohm
- Distortion: 0.05 % THD
- Dynamic range: 95 dB
- Frequency range: 40 – 10 000 Hz
- Tone control
  - Break point at 1.6 kHz
  - Tone, high: +10dB@3.15 kHz, -6dB@250Hz
  - Tone, mid: flat
  - Tone, low: -10dB@3.15 kHz
  - No bass boost
- Line in sensitivity: 0 dBV (maximum input level)

Acoustic specifications

Output using BE9124 Earphones

Output using BE9122 Headphones

Output using BE9125 Stetoclips