INTRODUCING WIRELESS ORGANIC DIGITAL AUDIO:
A MULTICHANNEL STREAMING AUDIO NETWORK BASED ON
THE IEEE 802.11 STANDARDS

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Milestones in Sound Recording and Reproduction Technology, Past and Present

Milestone 1
Thomas Alva Edison
Phonograph
Recorded sound
1868

Milestone 2
Emile Berliner
Gramophone and disc record
1894

Milestone 3
Ted Wallerstein & William Savory
Microgroove
Long Playing vinyl record
Hi-Fi Stereo Sound
Electronic Amplification
June 21, 1948

Milestone 4
Norio Ohga, Kees Schouhamer Immink
Optical Compact Disc (CD)
Digital Stereo (2 x 16 bit, 44.1 kS/s)
October 1, 1982
Milestones in Sound Recording and Reproduction Technology, Now

Milestone 5

Shuji Nakamura, Sylwester Porowski

Blu-ray Disk
Multichannel High Definition Audio

Dominant Sound Recording and Reproduction Technology Timeline

- **1860**: Phonograph
- **1880**: Gamophone
- **1900**: LP Microgroove Record
- **1920**: Compact Disk (CD)
- **1940**: Blu-Ray
Milestones in Sound Recording and Reproduction Technology

7.1 Pure Audio Blu-ray Disc, Lindberg Lyd (2L), Norway 2010

Hybrid SACD +
Pure Audio Blu-ray

7.1 SURROUND +
5.1 SURROUND +
STEREO
produced in
DXD (Digital eXtreme Definition 352kHz/24bit)

Morten Lindberg
Milestones in Sound Recording and Reproduction Technology
World’s first commercial music only Blu-ray disc, made in Norway

Blu-ray Exclusive High Definition Music – video only for menu guide.
- 2.0 LPCM 24BIT/192 kHz
- 5.1 LPCM 24BIT/192 kHz
- 5.1 DTS HD Master Audio 24BIT/192 kHz
- 5.1 Dolby True HD 24BIT/192 kHz
- 5.1 Dolby Digital 48kHz
Sony's PlayStation3 is fully compatible with this disc
Pure Audio Blu-ray format
Comparison of Compact Disk (CD) and Blu-ray Organic Audio Surround Sound (BROSS)

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BROSS performance > 4000 x CD