



SPEECHLINE DIGITAL WIRELESS

Designed for reliable speech capture
in managed environments

SENNHEISER



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Designed for reliable speech capture in managed environments

SpeechLine Digital Wireless is a digital wireless microphone system for speech and lecture. It is designed and optimised for **university and corporate use**. Thanks to its broad product portfolio, the system is particularly versatile and can be adapted to the requirements of individual applications.

Long battery life and easy end-user operation make SpeechLine Digital Wireless a real workhorse for daily continuous use.

Our goal was to make the daily work of IT and AV managers easier. With the introduction of the **Multi-Channel Receiver**, SpeechLine Digital Wireless presents the perfect audio solution for **IT integration**. The digital microphone system supports the latest IT standards, numerous connectivity such as Dante™ and PoE and can be completely remote-controlled with the **Sennheiser Control Cockpit software**.

Four reasons for SpeechLine Digital Wireless

Integrates into existing IT & AV infrastructures

SpeechLine Digital Wireless integrates smoothly into existing infrastructures using established standards such as Dante™ audio networking and Power over Ethernet (PoE).

Dual Ethernet connectivity supports flexible deployment, while compatibility with third-party systems enables operation as a standalone speech solution or as part of a broader AV environment.

Ready when you are

SpeechLine Digital Wireless is designed for immediate use, with microphones that are ready as soon as they are removed from the network-enabled charging station.

With up to 15 hours of battery life, the system supports reliable operation throughout the working day without interruption.

Centralised setup and system management

Sennheiser Control Cockpit provides a clear overview of system status across rooms and locations, supporting consistent configuration and monitoring.

Automatic frequency and interference management removes the need for manual RF coordination, while remote access to system parameters enables efficient day-to-day operation across deployments.

Designed to help reduce operational cost

Operating in the licence-free 1.9 GHz band, SpeechLine Digital Wireless avoids ongoing spectrum costs and simplifies deployment.

Centralised monitoring and control via Sennheiser Control Cockpit supports efficient system management, helping to reduce maintenance effort, minimise servicing requirements, and make better use of internal resources.

Dedicated to speech - made for your needs

SpeechLine Digital Wireless is made for daily use in universities and corporations. **Excellent speech intelligibility** and versatility are essential for our customers in these environments. SpeechLine Digital Wireless meets these demands - from small setups to large **campus-wide installations**. Due to our broad product portfolio, the system can be configured for every application and individual needs.



Education



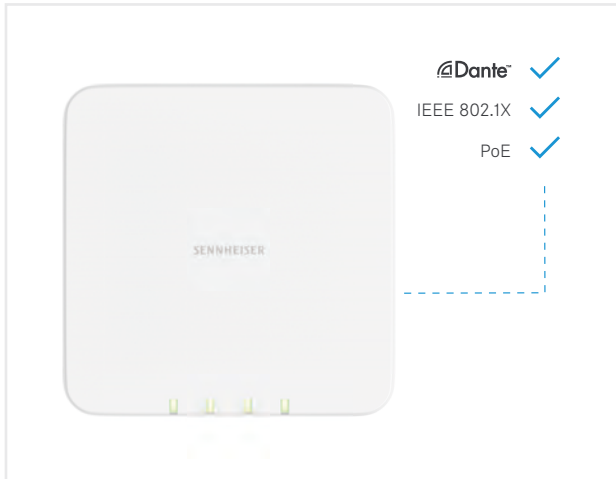
Corporate



Integrates into existing IT & AV infrastructures SL DW Multi-Channel Receiver

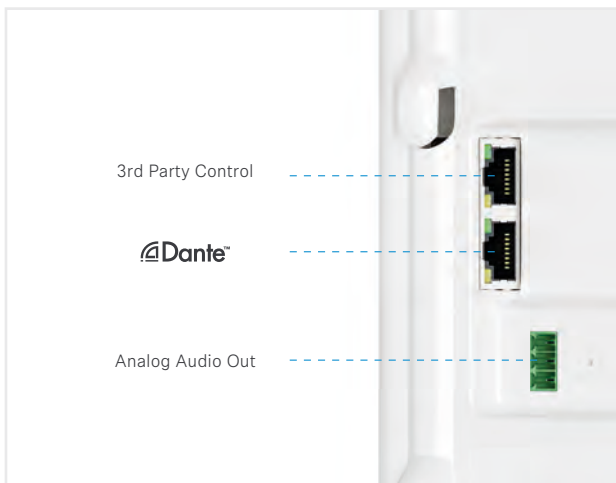
Since the introduction of SpeechLine Digital Wireless, the system has grown in popularity with AV and IT managers alike. The **easy integration into existing IT networks** and the possibility of **controlling and monitoring** the system via the free of charge **Sennheiser Control Cockpit** software have been the major trend-setting features.

To mark another important milestone in IT optimisation, we present the **SpeechLine Multi-Channel Receiver**. The 2 or 4 channel receiver comes packed with the latest technology. It combines highest connectivity, easiest controllability and clean design in a small unobtrusive housing.



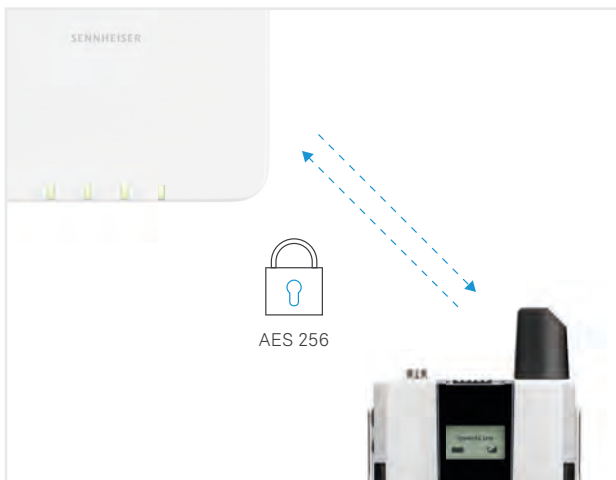
Built on established IT standards

Equipped with the **latest IT standards**, the new SpeechLine Multi-Channel Receiver meets the demands of IT managers and integrators around the world. It provides **IEEE 802.1X authentication** for easy and safe network deployment as well as **PoE** and **Dante™** straight out of the box.



Seamless IT & AV infrastructure compatibility

Integrate the SpeechLine Digital Wireless microphone system into any existing AV infrastructure, thanks to **analogue audio outputs** of the Multi-Channel Receiver and Rack Receiver. The multi-channel receiver also features an **integrated auto mixer** and **digital audio outputs** for effortless integration into your existing **IT infrastructure** through up to **two Dante™ ports**. Our **3rd party control protocols** and **plugins** enable interoperability with other systems.



Secure operation

With SpeechLine Digital Wireless, your confidential conversations are encrypted with **AES 256-bit** and remain protected. Thanks to the **IEEE 802.1X authentication**, all SpeechLine Multi-Channel receivers can be easily and securely integrated into your network. The two RJ45 ports can be individually configured: **split the control and audio** to separate networks for **more security** or use both ports in a **redundant Dante™ network** for **maximum reliability**. Manage your Dante™ setup securely with the **Dante Domain Manager™**.

Centralised setup and system management

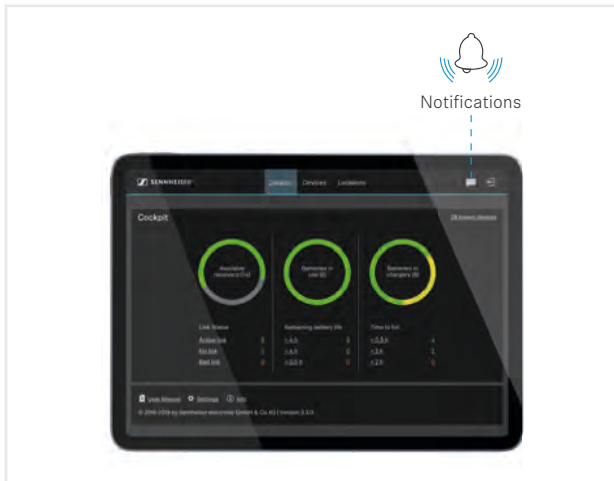


Stephen Dishon,
Development Team
Supervisor

*"The product fulfills its product promise, the investment is worthwhile [...] automatic search for free frequencies in the 1.9 GHz frequency band (DECT) works well."
- "No frequency problems at all"*



THE UNIVERSITY
of EDINBURGH



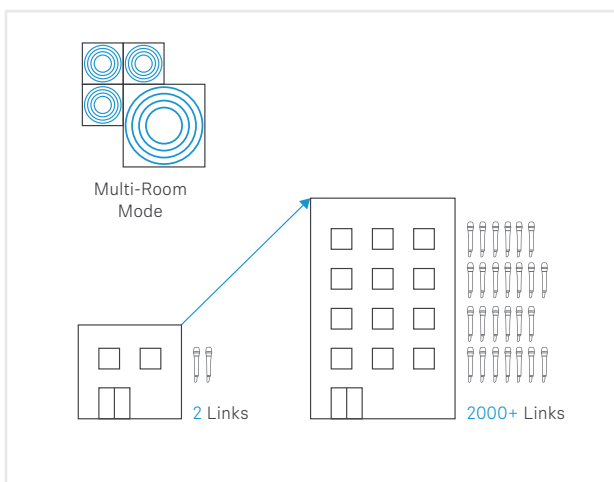
Remote control & troubleshooting

Sennheiser Control Cockpit gives you full overview and control of all devices in your entire campus-wide setup at all times. Use the Monitoring View, for example, to monitor all relevant information about your devices in any room in real time. Remote maintenance makes it easy to identify and resolve problems such as forgotten mute switches. The notification function automatically sends you information about critical events, such as low battery levels, via e-mail or SMS, and allows you to react before a failure occurs.



Advanced System Automatics

The advantages of a digital wireless system are demonstrated by our advanced system automatics. For easiest set-up, **Automatic Frequency Management** performs an on-site real-time scan on startup to find free frequencies. During operation, **Automatic Interference Management** changes seamlessly to a free channel in case of frequency disturbances. Manual voice level adjustment is no longer necessary thanks to **Automatic Audio Level Management**.



Multi-room mode

SpeechLine Digital Wireless features two operating modes. The **Automatic Mode** ensures the simplest startup and a reliable, maximum range for up to 20 simultaneously used links (dependent on regional regulations). In **Multi-Room Mode**, the transmission power is adjusted to the room size to allow infinite scaling options from small meeting rooms to large campus-wide setups.

Ready when you are



Per Mouritzen,
AV-Director

*"Pick and speak, is the motto:
what previously took hours
now takes just a few minutes"*





Outstanding Battery Management

With SpeechLine Digital Wireless, empty batteries are a thing of the past. With **15+ hours of battery life**, SpeechLine Digital Wireless microphones are ready for even the longest working day. The **network charger** serves as a convenient storage device for the microphones that are currently not in use. Sennheiser Control Cockpit provides a full overview of the **battery status** of all microphones on the campus **at all times**.



Dedicated to speech

SpeechLine Digital Wireless is made for the spoken word. Speech optimised **Sennheiser microphone capsules** and built-in equalisers with presets for female and male voices ensure **optimal speech intelligibility** in every situation. The SpeechLine Multi-Channel Receiver automatically mixes multiple speakers at the same time with an integrated **Automatic Audio Level Management** so that each person can be clearly understood.



No hardware interaction required

All SpeechLine Digital Wireless microphones are very **easy to use**. The presenter simply takes the microphone out of the charging station and is immediately ready to go. The end user does not need to have **access to the receiver**. Avoid classic user errors by installing the receiver in a **not publicly accessible location**. For the Rack Receiver, for example, this would be a lockable IT or AV rack. The Multi-Channel Receiver can be mounted easily and unobtrusively on the wall or ceiling.

Designed to help reduce operational cost



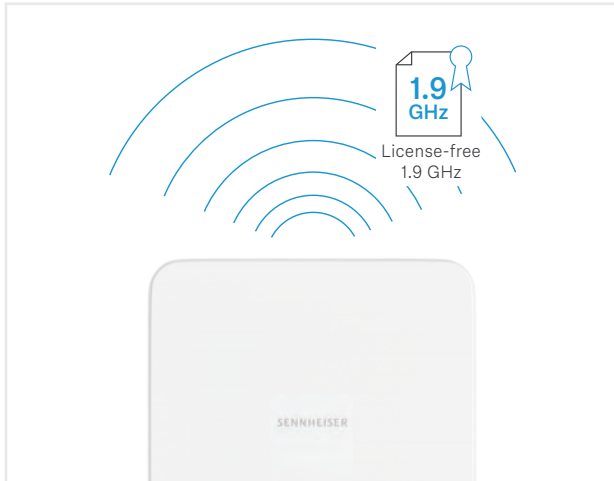
Jens H. H. Nielsen,
IT/AV Supporter

“Handling is extremely easy, the products work perfectly. The transmission range is also excellent and the capacity of the integrated rechargeable batteries has so far been sufficient for every event.”

CBS



COPENHAGEN BUSINESS SCHOOL
HANDELSHØJSKOLEN



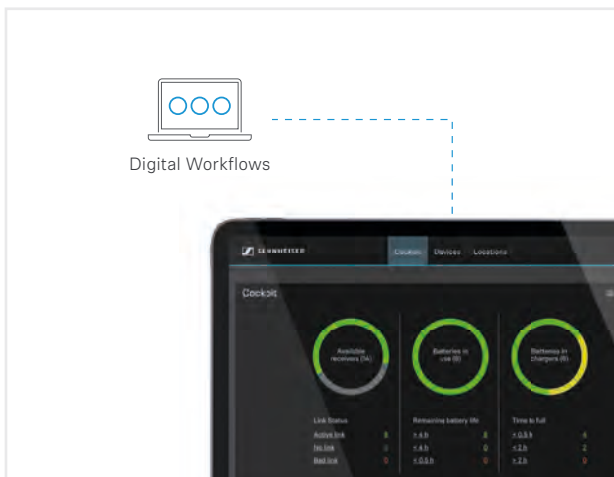
License-free 1.9 GHz

SpeechLine Digital Wireless uses the license-free **1.9 GHz frequency range**. This RF standard is also used by wireless telecommunications systems and is considered the most **future-proof** frequency band for wireless microphone systems.



No additional hardware needed

Save money on additional hardware with SpeechLine Digital Wireless. Use the **integrated DSP** with an EQ and included presets for male and female voices. Multi-Channel Receiver features an auto-mixer and **built-in antennas**.



A true cost saver

Reduce your staff **costs for maintenance and servicing** of your microphone system. With the **free of charge Sennheiser Control Cockpit**, time-consuming, manual workflows are now digitalized. What used to require manual operation on site can now be performed **from anywhere** at the touch of a button. The larger the setup, the greater the potential for savings.

Technical data

Important components
and specifications



System

Technical data

With its sophisticated portfolio of different microphone types and accessories like chargers, lavalier and headmics, SpeechLine Digital Wireless offers a complete system of perfectly combinable advanced audio technology items.

AF frequency response	20 to 20,000 Hz
Dynamic range	> 120 dB (A)
THD (1 kHz)	typ. 0.1 %
Audio sampling	24 bit/48 kHz
Signal-to-noise ratio	> 90 dB (A)
Encryption	AES 256
RF frequency ranges	- 3 1,880 to 1,900 MHz (EU, IN/UK, MY, HK, SG/AU) - 4 1,920 to 1,930 MHz (US, CA/Latin America) - 5 1,893 to 1,906 MHz (JP) - 6 1,880 to 1,895 MHz (TW) - 7 1,910 to 1,920 MHz (BR)
Modulation	GFSK with back channel
Transmission method	TDMA space diversity
Latency	19 ms
Temperature range*	relative air humidity max. 95 %
Operation:	-10 °C to +55 °C
Storage:	-20 °C to +70 °C

* The temperature range is influenced by the battery characteristics.



SL MCR DW

Technical data

The SpeechLine Multi-Channel Receiver combines highest connectivity, easiest controllability and clean design in a small unobtrusive housing. It is available in a 2 or 4 channel version to offer the best solution for every application and every meeting room size.

RF sensitivity	< -90 dBm
RF output power back channel	adaptive or manual, up to 250 mW (country-specific)
Network protocol	Media Control Protocol, UDP IPv4 (DHCP, Manual)/IPv6, mDNS (switchable)
Power supply	PoE IEEE 802.3af Class 3
Audio outputs	One 3-pin socket (suitable for Phoenix Contact MCVW 1.5-3-ST-3.81) Two Dante™ Digital Audio Network sockets (RJ-45)
Weight	
incl. Wall Mount Adapter	approx. 650 g (1.4 lbs)
excl. Wall Mount Adapter	approx. 560 g (1.2 lbs)
Dimensions (incl. Wall Mount Adapter)	180 x 180 x 45 mm (7.08" x 7.08" x 1.77")
Operating temperature	-10 °C to +45 °C (14 °F to 113 °F)
Storage temperature	-20 °C to +70 °C (-4 °F to 158 °F)
Relative air humidity	max. 95 %



SL Rack Receiver DW

Technical data

The stationary SL Rack Receiver DW is the easy-to-integrate core of the SpeechLine Digital Wireless system with network integration for remote monitoring and full control.

RF sensitivity	< -90 dBm
RF output power back channel	adaptive, up to 250 mW (country-specific)
Digital gain	adjustable in 6-dB steps
Mic/line level switch	-24 dB/0 dB
XLR, balanced	max. +18 dBu
RCA, unbalanced	max. +6 dBu
Audio effects	
Low cut	-3 dB at 120 Hz
Equaliser	7-band graphic equaliser with sound presets
Automatic gain control	AGC compression/expansion with automatic make-up gain function
Display	OLED
Network protocol	Media Control Protocol TCP/IP IPv4 (DHCP, Manual)/IPv6
Power supply	12 V DC
Current consumption	350 mA
AF connection sockets	XLR/2 x RCA
Antenna sockets	2 x Rev-SMA
Network socket	RJ45
DC socket for power supply	hollow jack
Dimensions	68 x 212 x 43 mm (6.61" x 8.35" x 1.69")
Weight	approx. 828 g (1.8 lbs)



SL Handheld DW

Technical data

The sleek but robust SL Handheld DW is optimized for speech in presentations or lectures where every word matters.

RF output power	adaptive, up to 250 mW (country-specific)
AF frequency response	50 to 20,000 Hz
Input sensitivity	automatic sensitivity adjustment
Power supply	
Accupack	BA 10 (Li-Ion, 3.7 V)
Batteries	2 x AA size battery (1.5 V)
Operating time	
Accupack	typ. 15 h
Batteries	typ. 10 h
Display	LCD
Mute switch	available
Dimensions	
Diameter	40 mm (1.57")
Length	215 mm (8.46")
Weight (w/o accupack)	approx. 262 g (0.6 lbs) (incl. microphone head)



SL Bodypack DW

Technical data

The robust SL Bodypack DW is compatible with all Sennheiser microphones such as SL Headmic 1 or MKE 1.

RF output power	adaptive, up to 250 mW (country-specific)
AF frequency response	
Mic	50 to 20,000 Hz
Line	20 to 20,000 Hz
Max. input level	
Mic	2.2 V RMS
Line	3.3 V RMS
Line input impedance	1 M Ω
Input sensitivity	automatic sensitivity adjustment
Power supply	
Accupack	BA 30 (Li-Ion, 3.7 V)
Batteries	2 x AA size battery (1.5 V)
Operating time	
Accupack	typ. 15 h
Batteries	typ. 10 h
Display	LCD
AF connection socket	3.5 mm jack socket, lockable connector assignment:
Dimensions	100 x 65 x 24 mm (3.94" x 2.56" x 0.94")
Weight (w/o accupack)	approx. 88g (0.2 lbs)



SL Boundary 114-S DW

Technical data

The wireless SL Boundary 114-S DW is optimized for voice transmission in conference rooms and offers high flexibility due to the complete absence of cables.

RF output power	adaptive, up to 250 mW (country-specific)
AF frequency response	40 to 20,000 Hz
Pickup pattern	cardioid
Dynamic range	< 100 dB(A)
Microphone sensitivity	10 mV / PA
Power supply	BA 40 accupack (Li Ion 3.6 V)
Operating time	typ. 13 h
Temperature range	
Operation	10 °C to 45 °C (50 °F to 113 °F)
Storage	-20 °C to 70 °C (-4 °F to 158 °F)
Dimensions	114 x 85.3 x 30.8 mm (4.49" x 3.36" x 1.21")
Weight (w/o accupack)	approx. 208 g (0.45 lbs)



SL Tablestand 133-S / 153-S DW

Technical data

The wireless SL Tablestand 133-S DW is dedicated to speech and optimized for podium discussions and lectures. The wireless SL Tablestand 153-S DW supports in addition with XLR 5 connectivity the MEG 14-40-L-II gooseneck microphone with integrated LED light ring.



Microphone connector	XLR-3F / XLR-5F
AF frequency response	75 to 20,000 Hz
Max. input level	1.7 V RMS
Input impedance	30 k Ω
Microphone sensitivity	10 mV / PA
Power supply	BA 40 accupack (Li Ion 3.6 V)
Operating time	typ. 12 h
Operating temperature	-10 °C to 55 °C (14 °F to 131 °F)
Relative humidity	max. 95 %
Dimensions	166.7 x 120.2 x 47.9 mm (65.63" x 47.32" x 18.86")
Weight (w/o accupack)	approx. 650 g (1.43 lbs)



CHG 4N / CHG 2N

Technical data

The CHG 4N and CHG 2N are network enabled chargers featuring four or two individual charging bays. The flexible network interface provides IPv4 and IPv6 compatibility for seamless integration. All settings and status information can be monitored and remote controlled with the Sennheiser Control Cockpit.




	CHG 4N	CHG 2N
Input voltage	12 V 	12 V 
Current consumption	2.5 A	1.2 A
Network socket	RJ 45	RJ 45
Network protocol	Media Control Protocol IPv4 (DHCP, manual) / IPv6	Media Control Protocol IPv4 (DHCP, manual) / IPv6
Charging bays	4	2
Charging voltage per bay	5 V	5 V
Charging current per bay	1 A	1 A
Charging status indicator	4 LEDs per bay (red, yellow, green, green)	4 LEDs per bay (red, yellow, green, green)
Charging time for full charge		
SL Handheld DW	2 h	2 h
SL Bodypack DW	2 h	2 h
Operating temperature	0 °C to 45 °C (32 °F to 113 °F)	0 °C to 45 °C (32 °F to 113 °F)
IP protection class according to IEC/EN 60529	IP2X	IP2X
Dimensions	270 x 100 x 102 mm (10.6" x 3.9" x 4")	140 x 100 x 102 mm (5.3" x 3.9" x 4")
Weight	approx. 1100 g (2.23 lbs)	approx. 609 g (1.34 lbs)



CHG 2W

Technical data

The CHG 2W is a wireless power transmitter. It provides convenient wireless charging. It is compatible with SL Tablestand 133-S DW, SL Tablestand 153-S DW and SL Boundary 114-S DW.

Input voltage	12 V 
Input current	1.67 A
DC connection	
Charging voltage	5 V 
Charging current	max. 1 A
Compatible devices	SL Boundary 114-S DW SL Tablestand 133-S DW SL Tablestand 153-S DW
Charging time for full charge	
SL Tablestand 133-S DW	on: 5 h / off: 3 h
SL Tablestand 153-S DW	on: 5.5 h / off: 3 h
Temperature range	
Operation	5 °C to 35 °C (41 °F to 95 °F)
Storage	-40 °C to 80 °C (-40 °F to 176 °F)
Dimensions	278 x 190 x 10 mm (10.9" x 7.5" x 0.4")
Weight	approx. 525 g (1.15 lbs)



Wall-mount antenna	AWM 2 MK II	AWM 4
Antennas	two 1.9 GHz antennas	four 1.9 GHz antennas
Mounting	3/8" thread for tripod on the bottom; 2 x 9 mm (0.35") mounting holes on the rear for wall attachment	
Dimensions	225 x 53 x 60 mm (8.86" x 2.09" x 2.36")	
Weight	622 g (1.37 lbs)	672 g (1.48 lbs)



Passive antenna splitter/combiner	SL PASC 2	SL PASC 4
RF-Range	1880 - 1930 MHz (DECT range)	
Inputs/Outputs	2 RF inputs & 4 RF outputs	2 RF inputs & 8 RF outputs
Dimensions	150 x 50 x 21 mm (5.91" x 1.97" x 0.27")	210 x 160 x 41 mm (8.27" x 6.3" x 1.61")
Weight	135 g (0.3 lbs)	663 g (1.46 lbs)

CABLES
CL 1 PP (1 m)
CL 5 PP (5 m)
CL 10 PP (10 m)
CL 20 PP (20 m)



	MME 865-1	MKE 1	SL Headmic 1
Microphone type	pre-polarized condenser microphone		
Sensitivity	1.6 mV/Pa	5 mV/Pa	5 mV/Pa
Pick-up pattern	super-cardioid	omni-directional	omni-directional
Max. SPL	152 dB SPL	142 dB SPL	142 dB SPL



	ME 36 B	MEG 14-40 B	MEG 14-40-L-II B
Microphone type	pre-polarized condenser microphone		
Sensitivity	18 mV/Pa	15 mV/Pa	15 mV/Pa
Pick-up pattern	hypercardioid / lobar	cardioid	cardioid
Max. SPL	130 dB SPL	130 dB SPL	130 dB SPL



The Future of Audio

