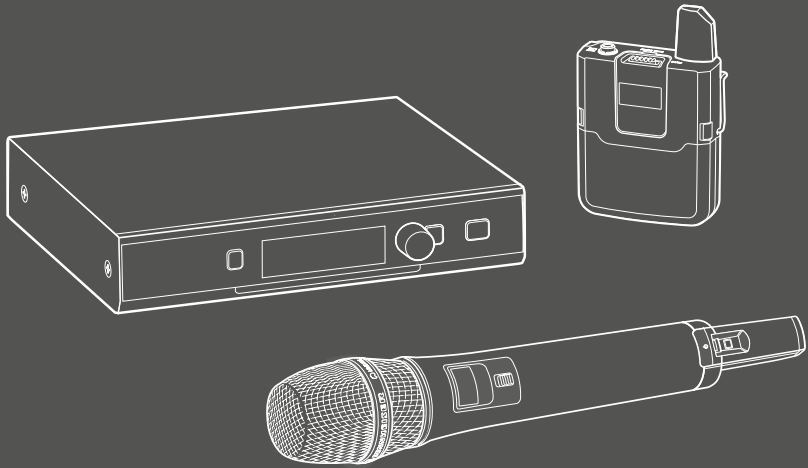
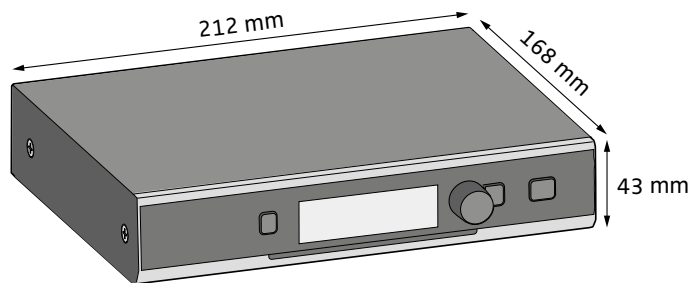


# ew D1

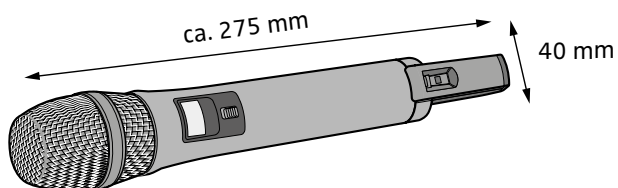


技术参数

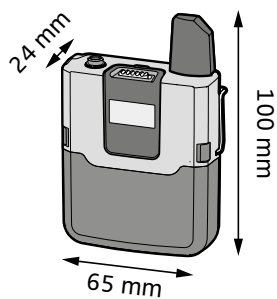
EM D1



SKM D1/SKM-S D1



SK D1



# ew D1 技术参数

## 系统

低频传输范围	20至20,000 Hz
动态范围	>128 dB (A)
总谐波失真	典型值 0.1 % (在最大音频输出音量级时为1 kHz, 6 dB)
音频取样	24 bit/48 kHz
信号/噪声间距	型, 109 dB (A)
HF频率范围	2,400至2,483,5 MHz
调制	数据反馈信道的GFSK
传输系统	TDMA, 时分集, 频率分集, 快速交换天线分集
时延	3.9 ms
音频编解码器	aptX® Live
相对空气湿度最高	95%
温度范围*	运行中: -10°C至+55°C 存放: -10°C至+70°C

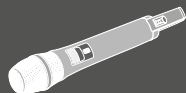
\* 电池特性影响温度范围。

## EM D1



HF灵敏度	< -90 dBm
反馈信道的发射功率	10 mW/100 mW (根据不同国家情况而定)
音频输出电平增益	Mic/Line电平转换器: -12 dB/0 dB XLR对称: 最大+18 dBu 插头, 不对称/对称: 最大+12 dBu / 最大+18 dBu
音频效应	Low Cut: 120 Hz时 均衡器: 七段图示均衡器 De-Esser: 多频率目标 自动增益控制 (AGC): 使用自动增益补偿功能来压缩/伸张
显示屏	OLED
低频连接插孔	XLR/6.3 mm 插头
天线接口	2 x Rev-SMA
网络接口	RJ45
网络协议	多媒体控制协议, UDP IPv4 (DHCP, 说明书)/IPv6
电源供应	12 V DC同轴插头
电流消耗	350 mA
重量	约 824 g

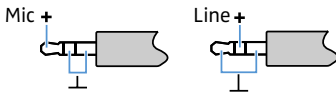
## SKM D1



发射功率	100 mW以内自适应调整或10 mW（根据不同国家情况而定）
低频传输范围	50至20,000 Hz
输入信号灵敏度	灵敏度自动调节
电源供应	电池： 2节AA型(1.5 V) 充电电池组： BA 10 (Li-Ion, 3.6 V)
电池寿命	电池： 典型值6小时 充电电池组： 典型值11小时
显示屏	LCD
重量（不含电池）	大约280 g，包括话筒头
* 备选附件	

## SK D1



发射功率	100 mW以内自适应调整或10 mW（根据不同国家情况而定）
低频传输范围	Mic: 50至20,000 Hz 线路: 20至20,000 Hz
最大输入电平	Mic: 1.5 V RMS 线路: 3.1 V RMS
线路的输入阻抗	1 MW
输入信号灵敏度	灵敏度自动调节
电源供应	电池： 2节AA型(1.5V) 充电电池组： BA 30 (Li-Ion, 3.7V)
电池寿命	电池： 典型值6小时 充电电池组： 典型值11小时
低频连接插孔	3.5 mm 插孔，带螺纹 
重量（不含电池）	约 85 g
* 备选附件	

## MMD



	835-1	845-1	935-1	945-1
麦克风类型			动圈式	
灵敏度	2.1 mV/Pa	1.6 mV/Pa	2.5 mV/Pa	1.8 mV/Pa
拾音特征	心形	超心形	心形	超心形
最大声压级	154 dB SPL	154 dB SPL	130 dB SPL	150 dB SPL

## ME

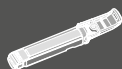


	ME 2-2	ME 3-II
麦克风类型		驻极体电容式麦克风
灵敏度	20 mV/Pa	1.6 mV/Pa
拾音特征	全方向	心形
最大声压级	130 dB SPL	150 dB SPL

## 电源适配器

	NT 12-4C	NT 2-3CW
额定输入电压		100至240 V~
电源频率		50或60 Hz
输入电流		最大 120 mA
标称输出电压		12 V = = =
待机功耗		≤ 0.3 W
节能等级	V	IV
工作温度范围		-10°C 至 +55°C
存放温度		-20°C 至 +70°C
相对空气湿度		最高95%
重量	约 100 g	约 105 g

## 充电电池组




	BA 10	BA 30
充电容量	2,200 mAh	2,030 mAh
输出电压	3.6 V	3.7 V

# 制造商声明

## 质保

- Sennheiser electronic GmbH & Co. KG 公司为本产品承担 24 个月的保修。
- 您可以从公司网站 [www.sennheiser.com](http://www.sennheiser.com) 或 Sennheiser 专业经销商处了解当前有效的质保条件。

## 本产品满足以下标准要求

- WEEE标准 (2012/19/EC)  
 本产品报废后，请将它送交公共收集站或废旧回收中心。
- 电池标准(2006/66/EC)出厂提供的充电电池或普通电池均应循环再利用。请将废旧充电电池或普通电池送交公共回收点或专业经销商进行妥善处理。请在电池或充电电池用尽后再进行报废处理，以保护环境。

## CE 符合性声明

- 
- 无线电及通讯终端指令 (1999/5/EC)
- RoHS 标准 (2011/65/EU)
- EMC 标准 (2014/30/EU)
- 低压标准 (2006/95/EU)

您可以在本公司网站 [www.sennheiser.com/download](http://www.sennheiser.com/download) 上下载此声明。开机调试前，请注意所在国家/地区的有关规定。

## China RoHS

部件名称 (Parts) *= 如果包含 (if available)	有害物质						产品环保年限 (EFUP)
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr <sup>6+</sup> )	多溴联 苯 (PBB)	多溴二 苯醚 (PBDE)	
金属部件 (Metal Parts)	x	o	o	o	o	o	15
电路模块 (Circuit Modules)	x	o	o	o	o	o	15
电缆及电缆组件 (Cables and Cable Assemblies)	x	o	o	o	o	o	15
电路开关 (Circuit Breakers)*	x	o	o	o	o	o	15
外部电力适配器 (External Power Supply)*	x	o	o	o	o	o	10
电池 (Battery)*	x	o	o	o	o	o	5

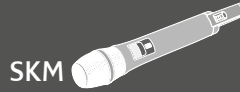
本表格依据 SJ/T 11364 的规定编制。

o: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572规定的限量要求以下。

x: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572规定的限量要求。

有关许可和认证的信息请参见章节“Compliance”。

# Compliance



## In compliance with

Europe		Radio EMV Safety RoHS	EN 300328 EN 301489-1/-17 EN 60950-1, EN 62311 (SAR) EN 50581
USA		FCC 47 CFR 15	
Canada		Industry Canada RSS 210, CAN ICES-3(B)/NMB-3(B)	
Australia/New Zealand		AS/NZS 4268	

## Certified by

Argentina	EM D1 SKM D1 SKM-S D1 SK D1		CNC ID: C-15479 CNC ID: C-15476 CNC ID: C-15478 CNC ID: C-15480
-----------	--------------------------------------	--	--

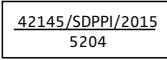
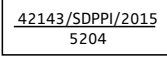
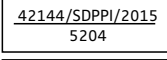
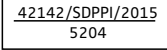
### Australia



Brazil		QUANTA BRASIL IMPORTAÇÃO E EXPORTAÇÃO LTDA	EUROBRAS FILM PRODUÇÕES CINEMATOGRAFICAS LTDA
	EM D1		
	SKM D1 SKM-S D1		
	SK D1		

China	EM D1 SKM D1 SKM-S D1 SK D1	CMIIT ID: 2015DJ4568 CMIIT ID: 2015DJ4566 CMIIT ID: 2015DJ4567 CMIIT ID: 2015DJ4569	
-------	--------------------------------------	--	--


India	EM D1	No. NR-ETA/ 1575
	SKM D1	No. NR-ETA/ 1572
	SKM-S D1	No. NR-ETA/ 1573
	SK D1	No. NR-ETA/ 1574

Indonesia	EM D1	
	SKM D1	
	SKM-S D1	
	SK D1	

Japan		EM		202-SMC045
		SKM		202-SMC046
		SK		202-SMC047

Canada	EM D1	IC: 2099A-EM2G4WE
	SKM D1	IC: 2099A-SKM2G4WE
	SK D1	IC: 2099A-SK2G4WE



Korea	EM D1		MSIP-CRM-SE9-EMD1
			A/S: 1544-1699
	SKM D1		MSIP-CRM-SE9-SKMD1
	SKM-S D1		A/S: 1544-1699
	SK D1		MSIP-CRM-SE9-SKD1
			A/S: 1544-1699

Malaysia	EM D1		RDCN/01A/1015/S(15-3469)
	SKM D1		RBBR/09A/1015/S(15-3471)
	SKM-S D1		RBBR/10A/1015/S(15-3472)
	SK D1		RBBR/08A/0915/S(15-3470)

Mexico	Sennheiser México, S.A. de C.V.		
	Xola 613 PH 6 Colonia del Valle		
	Delegación Benito Juárez		
	03100 Ciudad de México		



IFETEL no : RCPSEEV15- 1413  
 Certificado No.: 1502CE13150



New Zealand



Philippines

EM D1  
SKM D1  
SKM-S D1  
SK D1



NTC

ESD-1511343C  
ESD-1511341C  
ESD-1511342C  
ESD-1511344C

Peru

EM D1 Código: TRSS33993  
SKM D1 Código: TRSS33991  
SKM-S D1 Código: TRSS33992  
SK D1 Código: TRSS34013

Singapore

EM D1  
SKM D1  
SKM-S D1  
SK D1

Complies with  
IDA Standards  
DB100582

South Africa

Radio Equipment Type Approval Number : TA-2014/2631

Taiwan

EM D1 CCAH15LP2170T8  
SKM D1 CCAH15LP2210T7  
SKM-S D1 CCAH15LP2211T9  
SK D1 CCAH15LP2180T1

Thailand

เครื่องโทรคมนาคมและอุปกรณ์นี้ มีความสอดคล้องตามข้อกำหนดของ กทช  
EM D1 ID : RT 0936  
SKM D1 ID : RT 0938  
SKM-S D1 ID : RT 0939  
SK D1 ID : RT 0937

UAE

Authorization Number : ER39427/15

USA

EM D1 FCC ID: DMOEM2G4WE  
SKM D1 FCC ID: DMOSKM2G4WE  
SK D1 FCC ID: DMOSK2G4WE



Vietnam

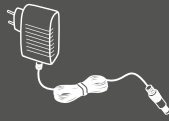
Suntech VietNam Technology Company Limited

EM D1  
SKM D1  
SKM-S D1  
SK D1



ICT: C0102290715AE01A2  
ICT: C0104290715AE01A2  
ICT: C0105290715AE01A2  
ICT: C0103290715AE01A2



NT 12-4C









NT 2-3CW



**In compliance with**

Europe		EMC Safety RoHS Commission Regulation (EC) No. 1275/2008	EN 55022, EN 55024 EN 60065 EN 50581
USA/Canada		EMC  Safety	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B) UL 60065 CAN/CSA-C22.2 No. 60065
China		EMC Safety RoHS	GB13837, GB17625 GB8898 
Australia/New Zealand		EMC Safety	AS/NZS CISPR 22 AS/NZS 60065

**Certified by**

Australia/New Zealand		
China		(NT 2-3CW only)
Europe		
Japan		
Korea		KTL SU 10524-13002 (NT 2-3CW only)
USA/Canada		


BA 10






BA 30



### In compliance with

Europe		EMC Safety	EN 301489-1/-6/-17 IEC/EN 62133
USA/Canada		Rechargeable battery cells Accupack	UL 1642 UL 2054
Japan		DENAN Ordinance Article 1; Appendix 9 Lithium Ion	
Korea		Safety	K 62133
UN transportation test		according to UN Manual of Tests and Criteria, Part III, section 38.3 Lithium-Ion batteries	

### Certified by

USA/Canada	
Japan	 <small>ゼンハイザージャパン(株)</small>
Korea	

# Licenses

## CSR - aptX® Live Codec



aptX® Live, which is used in this microphone, is provided by CSR.

Designed specifically for digital wireless microphones, aptX® Live delivers exceptional acoustic quality with a dynamic range in excess of 120 dB and a coding delay of under 2 ms. This unparalleled delay enables the wireless streaming of digital audio in real time and removes any lip synchronization issues.

The aptX® Live audio codec also employs connection, synchronization, and error reduction techniques to ensure a solid and professional wireless link.

### Modified BSD licenses

Copyright (c) 2001, 2002, 2003, 2004 Swedish Institute of Computer Science

Copyright (c) 2001, 2002, 2003, 2004 Leon Woestenberg <leon.woestenberg@axon.tv>

Copyright (c) 2001, 2002, 2003, 2004 Axon Digital Design B.V., The Netherlands.

Copyright (c) 1990 The Regents of the University of California

Copyright (c) 1990, 1992, 1993 The Regents of the University of California

Copyright (c) 1988 Regents of the University of California

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS „AS IS“ AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

### GNU GPL version 2

To obtain the source code of software components licensed under the GPL v2, please submit a written request to us. Our contact data can be found on the back page of the Specifications booklet.

### Ubuntu Font License

Version 1.0

## Preamble

This license allows the licensed fonts to be used, studied, modified and redistributed freely. The fonts, including any derivative works, can be bundled, embedded, and redistributed provided the terms of this license are met. The fonts and derivatives, however, cannot be released under any other license. The requirement for fonts to remain under this license does not require any document created using the fonts or their derivatives to be published under this license, as long as the primary purpose of the document is not to be a vehicle for the distribution of the fonts.

## Permission & Conditions

This license does not grant any rights under trademark law and all such rights are reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to propagate the Font Software, subject to the below conditions:

1. Each copy of the Font Software must contain the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.
2. The font name complies with the following:
  1. The Original Version must retain its name, unmodified.
  2. Modified Versions which are Substantially Changed must be renamed to avoid use of the name of the Original Version or similar names entirely.
  3. Modified Versions which are not Substantially Changed must be renamed to both
    1. retain the name of the Original Version and
    2. add additional naming elements to distinguish the Modified Version from the Original Version. The name of such Modified Versions must be the name of the Original Version, with „derivative X“ where X represents the name of the new work, appended to that name.
3. The name(s) of the Copyright Holder(s) and any contributor to the Font Software shall not be used to promote, endorse or advertise any Modified Version, except
  1. as required by this license,
  2. to acknowledge the contribution(s) of the Copyright Holder(s) or
  3. with their explicit written permission.
4. The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not affect any document created using the Font Software, except any version of the Font Software extracted from a document created using the Font Software may only be distributed under this license.

## Termination

This license becomes null and void if any of the above conditions are not met.

## Disclaimer

THE FONT SOFTWARE IS PROVIDED „AS IS“, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.



Sennheiser electronic GmbH & Co. KG

Am Labor 1, 30900 Wedemark, Germany  
[www.sennheiser.com](http://www.sennheiser.com)  
Publ. 08/16, 554641/A02