

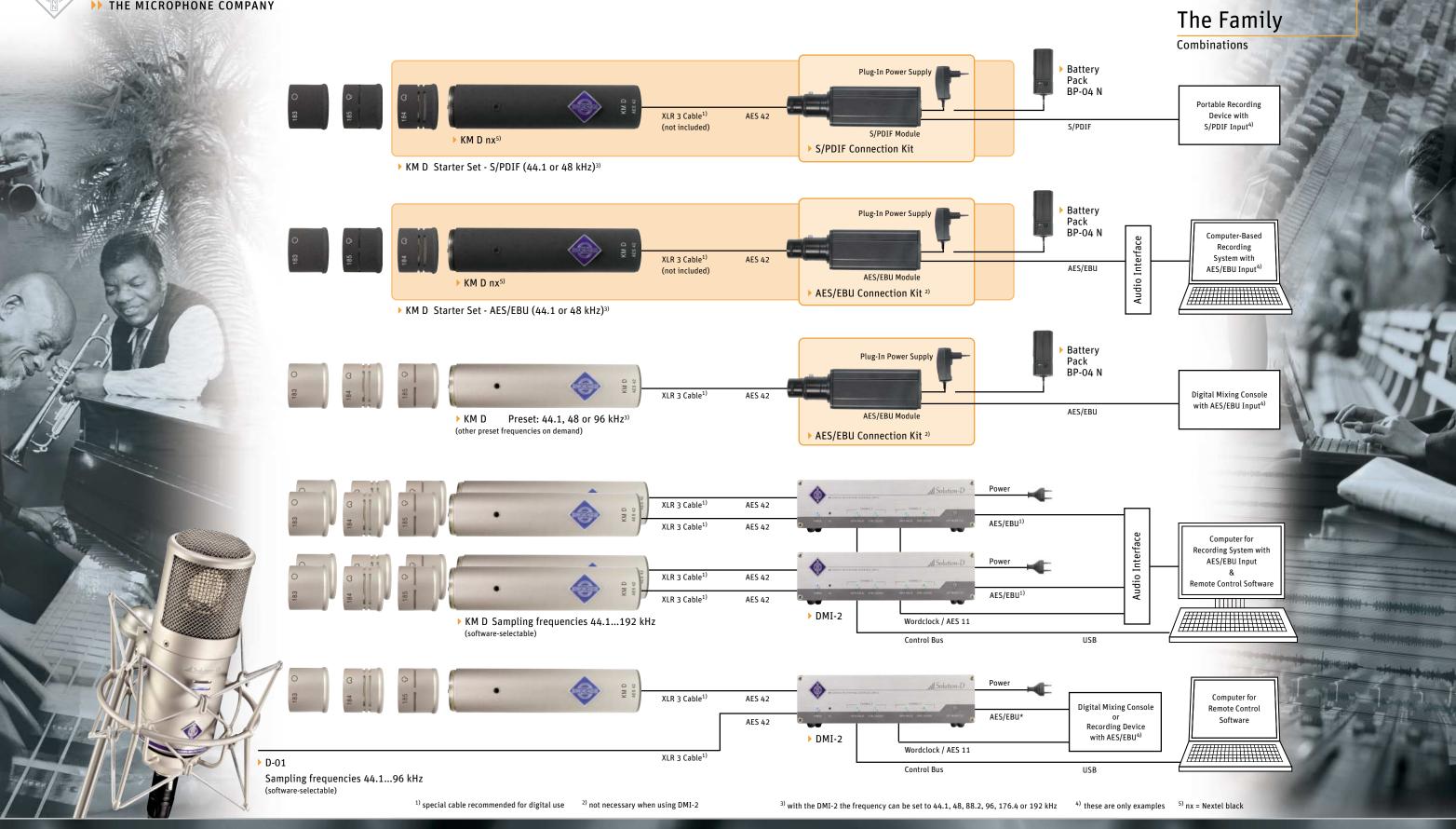


NEW MEMBERS OF THE SOLUTION-D FAMILY

AES 42









TRUE NEUMANN SOUND:

The legendary Neumann sound in the digital realm. Pure Neumann capsule sound.



TRUE TO THE ORIGINAL:

The satisfaction of recording the uncolored original, with no "bottlenecks" between the capsule and the recording



TRUE CONVERSION:

The guarantee of having one of the best A/D converters available.



TRUE HANDLING SAFETY: Anti-clipping processing ensures handling safety, and reduces stress.

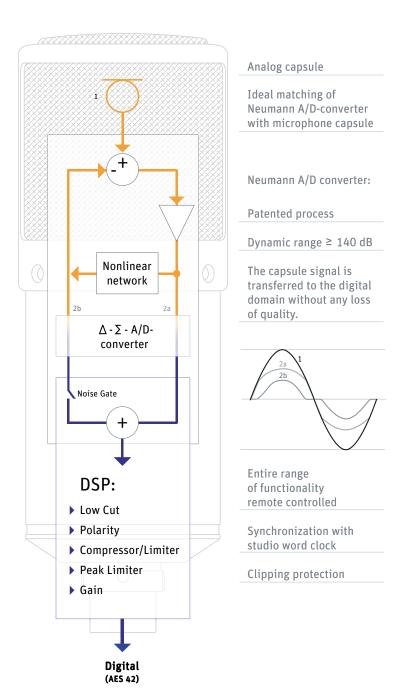


M Solution-D

Toolbox

Components & Sets

The Principle







- ► KM D Starter Set S/PDIF (Preset 44.1 kHz)
- ► KM D Starter Set S/PDIF (Preset 48 kHz)
- Contains: 1 KM 184 D nx + Connection Kit S/PDIF + windscreen + clamp





- ► KM D Starter Set AES/EBU (Preset 44.1 kHz)
- KM D Starter Set AES/EBU (Preset 48 kHz)
- Contains: 1 KM 184 D nx + Connection Kit AES/EBU + windscreen + clamp



Connection Kit S/PDIF
Contains: 1 S/PDIF Module +
Plug-In Power Supply



Connection Kit AES/EBU
Contains: 1 S/PDIF Module +
Plug-In Power Supply





▶ BP-04 N Battery Pack (batteries not included)

▶ Recording with no "bottlenecks"



Reduced time requirements and personnel costs, particularly due to faster post production processing.



TRUE ECONOMY:

Lower investment costs, since separate A/D converters and preamps are no longer needed. This also means space and weight savings (e.g. in the OB van).

APPLICATIONS KM 183 D

- For close miking of instruments when there is no need to attenuate extraneous noise, and in a balanced acoustic environment to record acoustic guitar, wind instruments, strings, percussion and drums
- Ideal as AB stereo pair because of the flat frequency response in the diffuse sound field
- Main mic, especially for capturing room acoustics
- For stereo recordings with a baffle plate
- Spot mic for piano, wind instruments, organ and choir



M Solution-D

Close

✓ 40 Hz

80 Hz 160 Hz

✓ 0 dB -6 dB -12 dB

Ch1 Gain

60dB -

50dB -

40dB -30dB -20dB -

10dB-

🗸 off

Close

✓ auto peak reset

manual peak reset

auto peak reset all channels

manual peak reset all channels

Close

Pink Noise

White Noise

-18 dB

File Options Help

Low Cut

Pre Att

Gain

Test Sig

WordClk

Comp

Limiter

6000 flat 1k 2k 4k

Peak Lim

SYNC

INT _ EXT |

AES 42

VAL I

PVB =

Red |

Blue

O.... Q..... 8

0 dB

0 dB

N/A

N/A

s 96k

1.5:1

-20dBFS

0 dBFS

FL OF

-20-

40-

+20

Toolbox

Components & Sets

Large Diaphragm Microphone



D-01 microphone in wooden box





D-01 Mono Set: D-01, elastic suspension, DMI-2, RCS software, interface converter and all cables, in aluminum case)





D-01 Stereo Set: 2 x D-01, elastic suspensions, DMI-2, RCS software, interface converter and all cables, in aluminum case)

DMI-2



▶ DMI-2 (incl. RCS software and cables)

Miniature Microphones



KK 183

▶ KK 183 nx¹⁾

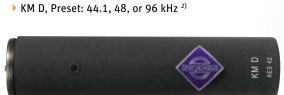


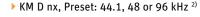
▶ KK 184 nx¹)



▶ KK 185 nx¹)









AES 42

▶ KM 183 D







KM 183/184/185 D (nx) are delivered with windscreen and clamp and are also available as stereo sets.



 $^{^{\}rm 2)}$ With the DMI-2 the frequency can be set to 44.1, 48, 88.2, 96, 176.4 or 192 kHz



Mute 180° | B 50-Red 🗘 4 Blue 📫 4 System ADC-calibrate Reset SW Update Trumpet • In situations that are susceptible to acoustic feedback

Mic PWR

APPLICATIONS KM 184 D

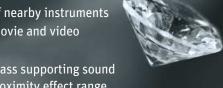
- For universal use, especially for recording situations when it is necessary to attenuate off-axis sound (mainly from the rear) from other nearby instruments.
- As XY and ORTF stereo pair

- Broadcasting mic for announcers
- Spot mic and overhead
- Close miking of strings, wind instruments, percussion, piano, Leslie speakers and guitar amps

APPLICATIONS KM 185 D

- Especially for recording situations when it is necessary to attenuate off-axis (lateral and rear) sound from other nearby instruments.
- · As XY stereo pair
- Overhead, toms

- To attenuate unwanted sound of nearby instruments
- Recording of speech, as in TV, movie and video productions, PA systems
- Produces especially warm and bass supporting sound for artists who perform in the proximity effect range





Technical Data

▶ General Specifications of the Solution-D microphones

Interface: AES 42

Internal resolution: 28 bit

Remote controlled¹⁾ functions:

- Polar pattern2)

- Low-cut: flat, 40, 80, 160 Hz

- Pre-attenuation: 0, -6, -12, -18 dB - Gain: 0...63 dB in 1 dB steps, clickless

- Testsignal: 1kHz, pink noise, white noise

- Parametric compressor/limiter (incl. de-esser function)

- Independent peak limiter avoiding any clipping

- Switch functions: soft muting, phase reverse, signal lights

- Signal lights: red²⁾ and blue LEDs (switchable via control software or User Port)

Synchronization: AES 42-Mode 2, Mode 1 (asynchronous), output: XLR3M, AES 42

1) Remote control with DMI-2 only 2) D-01 only

▶ Features of the RCS Remote Control Software

Communication via USB port (Win 2000/98SE/ME/XP, MAC OS version 8.6...10 on PowerPC)

Up to 8 channels displayed simultaneously on the screen

Controllable functions: polar pattern, low-cut, pre-attenuation, gain, test signals, limiter/compressor/de-esser, peak limiter, phase reverse, mute, sampling rate, synchronization mode, signal lights...

Display: peak level meter, gain reduction meter for compressor/limiter/de-esser and peak limiter, microphone properties (manufacturer, model, serial number, hardware and software revision, internal latency time), DMI properties, status signals (overload, limiter active, data valid, sync locked, power on)

Saving/Loading of configurations Individual channel labelling

Firmware update of Neumann microphones and DMI devices

▶ D-01 Specifications

Acoustic transducer: K 07 large double-diaphragm capsule, diameter 30 mm with protected internal electrodes 15 remote controllable polar patterns, from omni to cardioid to figure-8

Sensitivity at 1 kHz, 0 dB gain: 12 mV/Pa = -43 dBFS Equivalent SPL CCIR 468-3: 18 dB Equivalent SPL DIN/IEC 651: 7 dB-A S/N ratio CCIR 468-3: 76 dB S/N ratio DIN/IEC 651: 87 dB

Dynamic range: >130 dB(A) (complete system incl. capsule), 140 dB(A) (ADC input shorted) Sampling rates: 44.1, 48, 88.2, 96 kHz

Weight: approx. 700 g Diameter: 63.5 mm Length: 185 mm

KM 183 / 184 / 185 D Specifications

Acoustic transducer: K 30, K 40, K 50 (known from Series 180)

Sensitivity at 1 kHz, 0 dB gain: 12/15/10 mV/Pa = -41.4/-39.4/-43.4 dBFS Equivalent SPL CCIR 468-3: 24/22/24 dB Equivalent SPL DIN/IEC 651: 13/13/15 dB-A S/N ratio CCIR 468-3: 70/72/70 dB S/N ratio DIN/IEC 651: 81/81/79 dB

Dynamic range: >122 dB(A) (complete system incl. capsule), 134 dB(A) (ADC input shorted)

Sampling rates:

- with DMI-2: 44.1/48/88.2/96/176.4/192 kHz - with Connection Kit: Preset 44.1, 48 or 96 kHz

Preset Gain: 10 dB (can be changed with DMI-2)

Weight: approx. 80/84/88 g, Diameter: 22 mm, Length: 108 mm

▶ DMI-2 Digital Microphone Interface Specifications

2-channels, Inputs: XLR3F, AES 42, Outputs: XLR3M, AES/EBU, 24 bit.

Control bus: RS485 via RJ 45 jack. Second RJ 45 jack for cascading purposes (up to 4 DMI devices today, 16 devices in future). Connection to the computer's USB port via Neumann USB485 interface converter (included).

User Port: 9-pin sub-D, 3 functions per channel

Synchonization: AES 42 - Mode 2 (PLL system using an external Word Clock and remote controlling the VCXO in the microphone, default mode), AES 42 - Mode 1, (asynchronous, needs a sample rate converter (SRC) at the receiver side),

Word clock input: BNC, 75 ohms. Word clock output: BNC, 75 ohms, automatically set to the internal word clock master when no external word clock received. Selectable internal sampling rates: 44.1, 48, 88.2, 96, 176.4, 192 kHz

External Word clock: 44.1, 48, 88.2, 96, 176.4, 192 kHz or AES 11 format

Indicators: Data Valid (AES 42) and Sync Locked (Mode 2) for each channel, Power On and Ext. Word Clock.

Power supply: 90-240 V, 50/60 Hz.

Storage of the last microphone settings and reloading to the microphones after power on automatically without the need of the computer/RCS.

▶ Battery Pack BP 04 N Specifications

4 AA (rechargeable) batteries (not included) Weight: approx. 84 g (without batteries) Diameter: 43 mm, Length: 105 mm

Connection Kit S/PDIF (AES/EBU) Specifications

Connector: input XLR3F, output Cinch (XLR3M) Weight: approx. 96 g Width: 32 mm, Height: 26 mm, Length: 105 mm

Power supply: 90-240 V, 50/60 Hz

For remote controlling functions you have to use the DMI-2

