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## A Selection of Accessories for Use on Location

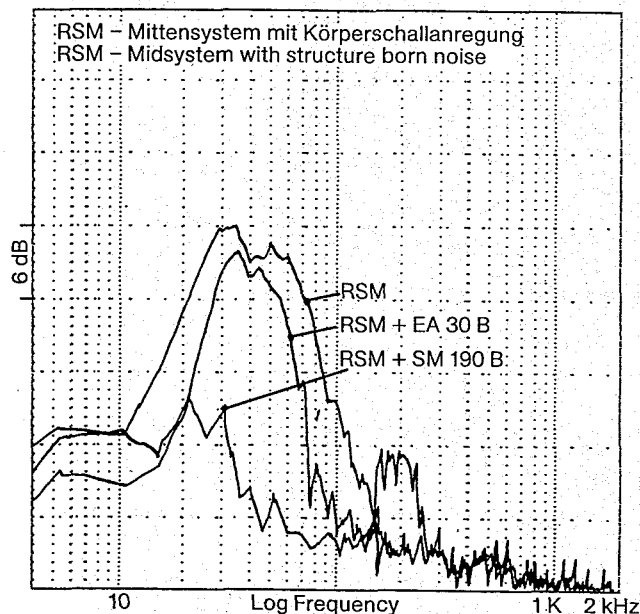
A comprehensive range of accessories is available for Neumann condenser microphones, as shown in detail in the current main catalogue. This digest is restricted to selected accessories for the Neumann Mono Shotgun Microphones KMR 81 and KMR 82 and the Stereo Shotgun Microphones RSM 190 and RSM 191 (RSM for short). Specifically, attention is focussed on microphone fishpoles, elastic suspensions, windscreens, special cables and battery power units.

### 1. Microphone Fishpoles MA and Elastic Suspensions EA 82 and EA 30B

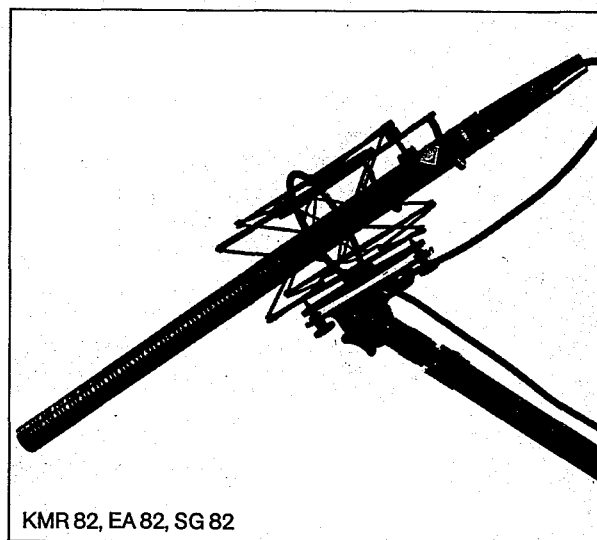
Two microphone fishpoles are available at the time of printing, differing in respect of length, material and weight. Provision for the attachment of a microphone is the same in either case: at the end of the fish pole is a sleeve with a 5/8" - 27 threaded stud to which the swivel mount SG 82 is screwed. This in turn carries the elastic suspensions EA 82 for the KMR 81 and KMR 82, or the EA 30B for the RSM. This set-up is shown in the illustration below.

The use of the elastic suspensions effectively suppresses the extraneous noises which frequently occur in the handling of microphone booms. For

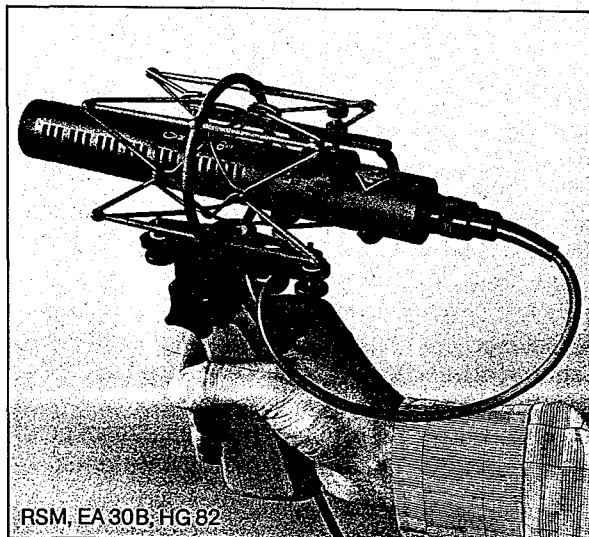
stage use, the microphones are mounted in similar manner on floor stands or studio booms.



The elastic suspensions can also be screwed on to the hand grip HG 82; suitable reducers are supplied for 1/2" and 5/8"-27 threads



KMR 82, EA 82, SG 82



RSM, EA 30B, HG 82

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The combination of handgrip and elastic suspension is also available from other manufacturers, optimised according to various philosophies. Some relevant material is listed below;

Make: "Light Wave Systems":

MMK 81	Mini Mount	for KMR 81
MMK 82	Mini Mount	for KMR 82
SM 190a	Super Mount	for RSM
MM 190	Mini Mount	for RSM
SMK 81	Super Mount	for KMR 81
SMK 82	Super Mount	for KMR 82
SM 190b	Super Mount	for RSM
	Ultra Mount	for RSM

Make: "Rycote":

For KMR 81 and KMR 82: "Suspension unit with a pair of 21 mm shockmounts, a bracket and handle or boom adapter".

For RSM: "Suspension unit with a teardrop stereo cradle, a bracket and handle or boom adapter".

## 2. Windscreens

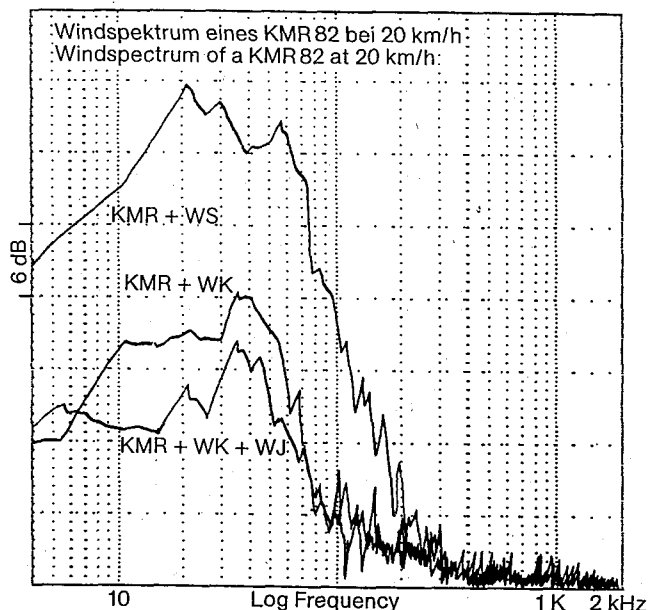
Distracting wind noise can occur in many circumstances, such as close speech, rapid panning movements on fishpole or boom and of course light or strong wind itself, which - especially on film or video location or in ENG situations - is fact of nature and thus unavoidable. Various aids are available for the suppression of such extraneous noise.

### For close speech or light winds

Polyurethan foam windscreens, which are part of the standard equipment of these microphones.

- WS 81 for KMR 81
- WS 82 for KMR 82
- WS 191 for RSM

The use of a windscreen is always accompanied by some loss, mostly slight, of high frequencies. However, this has no effect on the directional pattern of the microphone. The following diagram shows in each case the wind suppression ratio, i.e. the desired effect, and the effective signal attenuation at 15 kHz, as measured in a 20 km/h turbulent air stream generated by a silently operating wind machine with no electric filter.



Windscreen	Wind suppression	Effective signal attn at 15 kHz
WS 81	15 dB	2 dB
WS 82	15 dB	2 dB
WS 191	10 dB	2 dB

The effect of a windscreen can be increased by the additional use of a windscreen cover WSH.

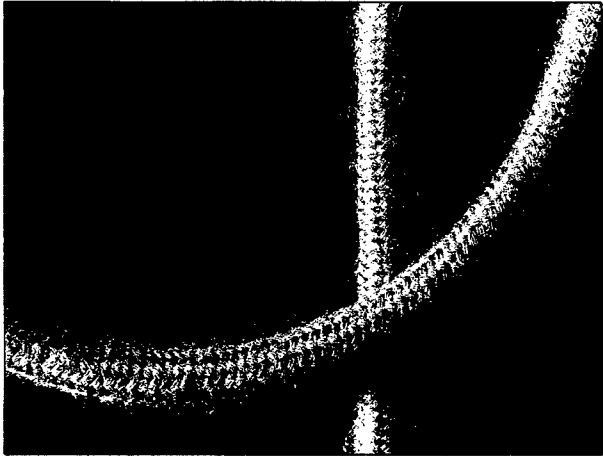
Windscreen cover	for Wind-screen	Wind-suppression	Effective signal attn at 15 kHz
WSH 81	WS 81	3 dB	3 dB
WSH 82	WS 82	5 dB	6 dB
WSH 11	WS 19	3 dB	3 dB

### b. For stronger winds:

We can supply windscreens of various manufacturers for the employment of microphones in stronger winds. Windscreens with the designation WK... enable microphones to be used with elastic suspensions in the windscreen, whereas miniscreens with the designation MSK... are placed directly on the microphone. The MSK... can thus be fixed very simply and quickly, which is a factor of significance in ENG applications.

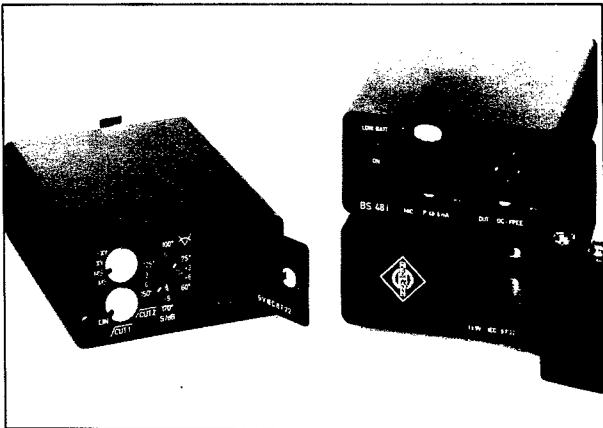
### 3. Special Cables

Extraneous noises can also be caused by friction between the connecting cable and accessories, especially at low outside temperatures. Neumann have therefore developed a special cable with a textile sheath offering sure protection against frictional noise. This 3-core XLR cable with the designation IC 31mt is finished in matt black and is 5 metres long.



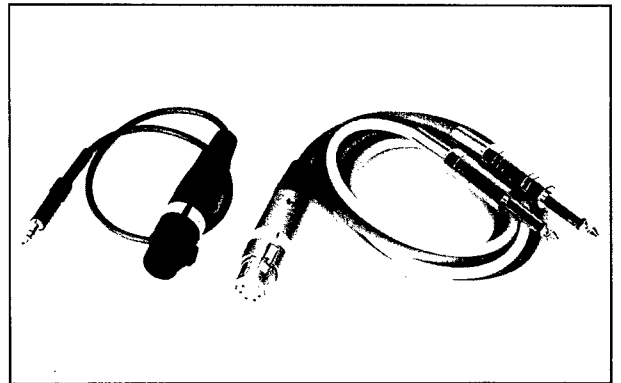
### 4. Battery power units

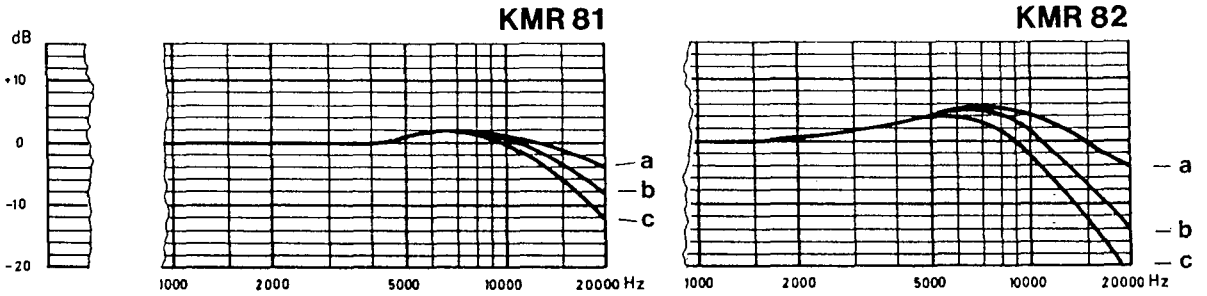
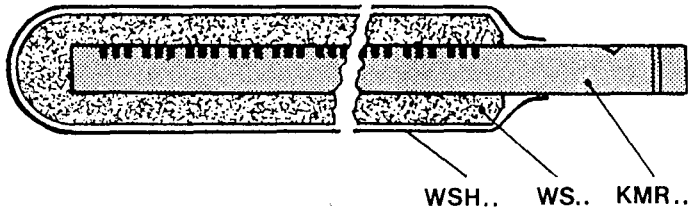
We supply battery units for the operation of our microphones independently of mains power.



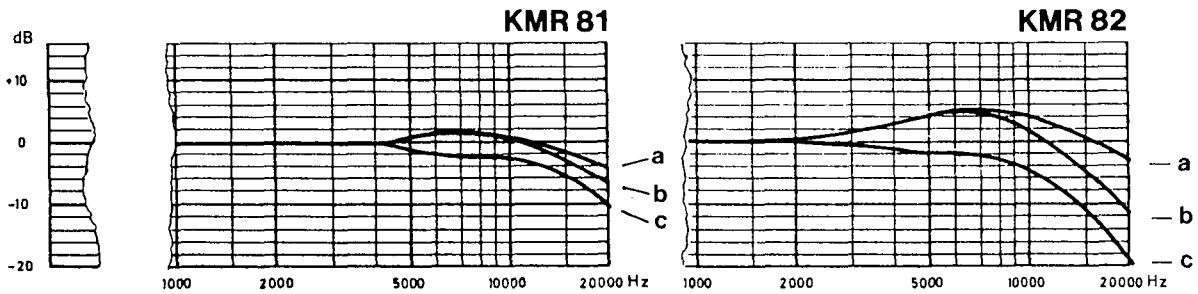
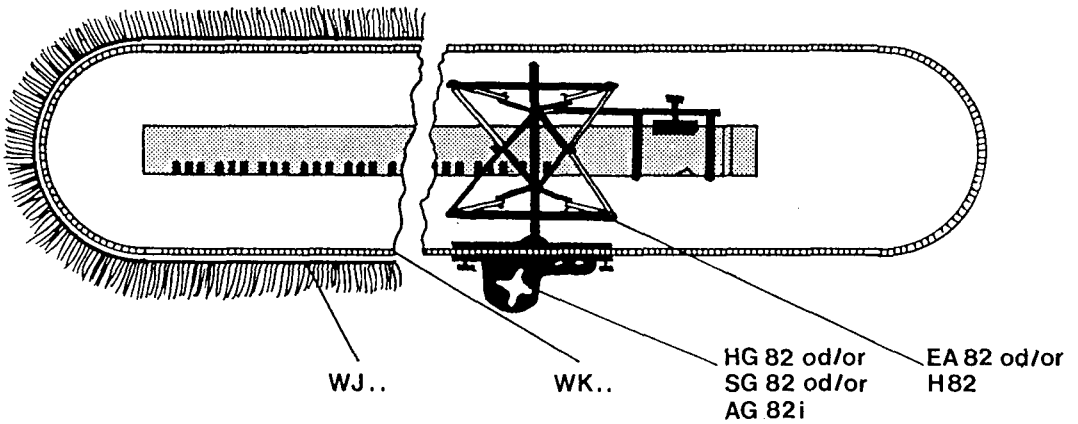
The KMR 81 and KMR 82 microphones are powered by the battery unit BS 48i; for the RSM 191 stereo shotgun microphone, a battery can be inserted in the MTX 191 matrix amplifier, which is necessary in any case. The latter then does duty as a battery unit. In either case, a 9-volt monobloc battery Type IEC 6F22

is used. The modulation output of the BS 48i battery unit is symmetrical and DC-free, thus enabling either symmetrical or unsymmetrical inputs to be connected quite simply without the use of an isolating transformer. This applies to the two shotgun microphones KMR 81 and KMR 82. The matrix amplifier MTX 191 is another matter. Here the modulation outputs are not DC-free, for when the RSM is operated on mains power, the 48-V phantom power supply must be fed to the unit externally via the modulation leads. Special cables are therefore provided for connection to unsymmetrical inputs: the adapter cable AC 24 with 3.5 mm stereo jack plug or the adapter cable AC 29 with two 6.3 mm mono jack plugs. The feed voltage in this case is blocked by two RC networks. At a load of at least 600 ohms, the bottom limit of this decoupling circuit is below 30 Hz.





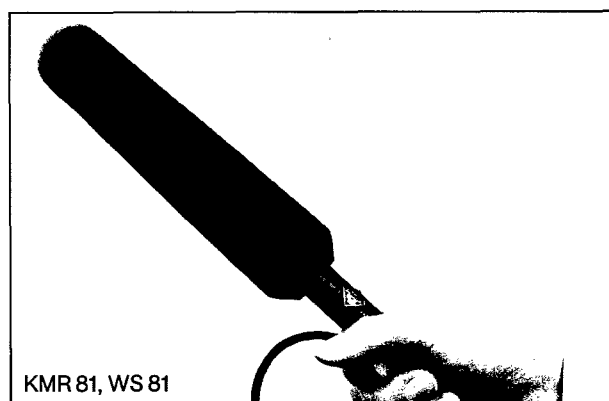
a = KMR    b = KMR + WS    c = KMR + WS + WSH



a = KMR    b = KMR + WK    c = KMR + WK + WJ

The following WK...and MSK... models are available:

Windscreen	Wind suppression	Effective signal attn at 15 kHz
WK 81 for KMR 81 and RSM	24 dB	2 dB
MSK 81 for KMR 81	25 dB	14 dB
WK 82 for KMR 82	25 dB	3 dB
MSK 82 for KMR 82	25 dB	14 dB
MSK 190 for RSM	22 dB	12 dB

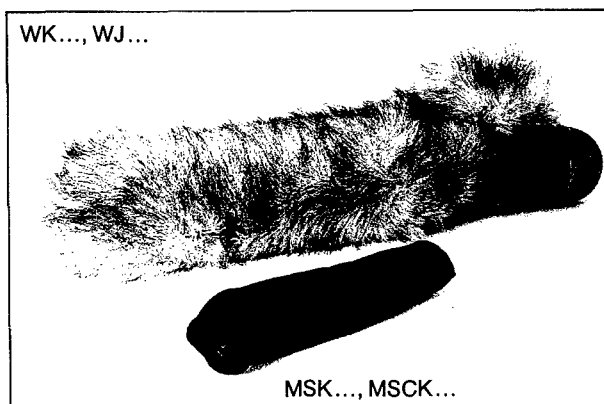


The Miniscreen MSK 190 for the RSM has some effect on the figure-8 polar pattern (side channel), which also applies to lower frequencies; effective signal attenuation is 12 dB at 100 Hz.

The effect of the windscreens WK... and MSK... can also be intensified by the addition of a windscreen cover:

Windscreen-cover	Wind-suppression	Effective signal attn at 15 kHz
WJ 81 for WK 81 (KMR 81)	8 dB	3 dB
MSCK 81 for MSK 81 (KMR 81)	5 dB	3 dB
WJ 82 for WK 82 (KMR 82)	8 dB	6 dB
MSCK 82 for MSK 82 (KMR 82)	5 dB	3 dB
MSCK 190 for MSK 190 (RSM)	4 dB	3 dB
WH...forWK..	3 dB	2 dB

The WK... windscreens mentioned here are supplied complete with WH...covers, and are manufactured by Messrs Rycote. The MSK... and MSCK... windscreen covers are products of Messrs Light Wave Systems. In addition, the fur-like Rycote WJ... Windjammers, which offer still greater wind suppression than the WH... models, can be supplied.



In addition to the above-described wind screening accessories, Light Wave Systems can supply further, larger windshields: the SSK 81, the SSK 82 and the SSK 190 (Superscreen) and windscreen covers with the designations SSC 81, SSC 82 and SSC 190 (High wind cover).

Rycote also offer further wind screening accessories, including the Rycote Softies for quick fixing on location. Information on the above products can be obtained from:

**RYCOTE MICROPHONE WINDSHIELDS LIMITED**, Unit 6, New Mills, Slad Road, Stroud, Gloucestershire GL5 1RN, Tel: (04536) 79338, Fax: (04536) 4249.

**LIGHT WAVE SYSTEMS** Manufacturers of Motion Picture and Broadcast Video Equipment, 760 Burnet Ave., Van Nuys. Ca. 91405, U.S.A. Tel: 818/780-3002, Telex 690092 Light Wave US, or their agents in your country.

Note: Wind screening equipment is the more effective the greater the free space (within certain limits) between them and the microphone is. For this reason, the windscreens WS.... or MSK... should not, for instance, be used inside the windscreens WK... or SSK..., as otherwise the wind suppression effect would be reduced and the high frequencies unnecessarily attenuated.

**List of above-specified accessories available from Neumann.**

**1. Microphone fishpoles and elastic suspensions**

EA 30B Elastic suspension	bm	10449 006
EA 82 Elastic suspension	ni	11447 001
EA 82mt Elastic suspension	bm	11447 002
HG 82 Handgrip	gr	11450 001
MA Microphone fishpole, alum	bm	11419 005
MA Microphone fishpole, carbon	bm	11419 006
SG 82 Swivel mount	bm	11327 001

**2. Windscreens**

MSCK 81 Windscreen cover	b	12450
MSCK 82 Windscreen cover	b	13401
MSCK 190 Windscreen cover	b	
MSK 81 Miniscreen	b	12448
MSK 82 Miniscreen	b	12449
MSK 190 Miniscreen	b	
WH... Windscreen cover	gr	included
WJ 81 Windjammer	gr	12426 001
WJ 82 Windjammer	gr	12427 001
WK 81 Windscreen	gr	12420 001
WK 82 Windscreen	gr	11449 002
WS 81 Windscreen	b	12415 001
WS 82 Windscreen	b	12412 001
WS 191 Windscreen	b	12433 001
WSH 81 Windscreen cover	gr	82840 00040
WSH 82 Windscreen cover	gr	82840 00050
WSH 191 Windscreen cover	gr	

**3. and 4. Special Cables and Battery Power Units**

AC 24 Adapter cable	ni	11321 020
AC 29 Adapter cable	ni	11321 019
IC 31mt Microphone cable	b	11311 028
BS 48i Battery power unit	b	11298 002
BS 48i-2 Battery power unit for 2 microphones	b	11298 004

**Legends:**

gr = grey  
ni = mattnickel  
b = black  
bm = matt black