

Overview of microphones and capsules built by NEUMANN, Berlin

Neumann Type			Type	Year	Microphone Capsule				Amplifier					Remarks
					Type	Principle	Membrane	Year	Polar Pattern / Switchable Characteristics	Type of Pattern Switch	No. of Switches	Tube/Semi-conductor	Power Supply	
Neumann	Broadcast	Telefunken												
CM 3	M 1-2	—	microphone capsule	1927	CM 3	P	PVC/G	1927	O	—	—	—	—	capsule with thread, torpedo head for CMV 3
CMV 3	M 1-1	—	microphone amplifier	1930	—	—	—	—	—	—	—	RE 084k	100 V 4 V	Neumann bottle, torpedo head
CM 5	M 1-2a	ElaMZ 026/2	microphone capsule	1930	CM 5	P	PVC/G	1930	O	—	—	—	—	capsule with thread, torpedo head for CMV 3
M 48	B-M 48	—	microphone capsule	1953	M 48 (KK 53)	P	Alu	1953	O	—	—	—	—	capsule with thread, torpedo head for CMV 3 + U 47 P
CMV 3a	M 1-1a	—	microphone amplifier	1932	—	—	—	—	—	—	—	RE 084k	100 V 4 V	Neumann bottle bayonet
CM 8	M 7	ElaMZ 032/2	microphone capsule	1932	CM 8	PG	PVC/G	1932	C	—	—	—	—	for CMV 3a with bayonet
CM 7	M 8	ElaMZ 031/2	microphone capsule	1932	CM 7	PG	PVC/G	1932	8	—	—	—	—	for CMV 3a with bayonet
CM 9	M 9	—	microphone capsule	1932	CM 9	P	PVC/G	1932	O	—	—	—	—	for CMV 3a with bayonet
production for Siemens			Siemens capsule	1937 1942	Rel.mph 9 Rel.mph 19	P P	Alu Alu	1937 1942	O O	—	—	—	—	" rail capsule"
U 47	—	—	standard microphone	1949 -	M 7	PG	PVC/G	1932	O, C	S	1	VF 14	105 V	usable with CM 8 and CM 5 of CMV 3a
			standard microphone	-1965	K 49	PG	Pe/G	1960	O, C	S	1	VF 14	105 V	polyester membrane, screwed
U 47 N												Nuvisitor 13CW4	105 V	successor for VF 14
U 47 P			standard microphone	1955	M 48	P	Alu	1953	O	—	—	VF 14	105 V	with torpedo head for capsule M 48

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MM 2	—	—	measur. microphone	1949 - 1954	MM 2	P	Alu	1949	O	—	—	VF 14	105 V	detached capsule, written calibration
M 49	—	—	standard microphone	1951 - 1974	M 7 K 49	PG PG	PVC/G Pe/G	1932 1960	O..C..8	ReP	—	MSC2 AC 701	120 V 4 V	amplifier developed with NWDR
M 50	—	—	standard microphone	1951 - 1971	KK 50 KK 53 KK 83	P P P	PVC/G Alu Pe/G	1951 54 on 65 on	O	—	—	MSC2 AC 701 AC 701	120 V 4 V	amplifier developed with NWDR
KM 53	M 153	—	miniature microphone	1953 - 1968	KK 53	P	Alu	1953	O, with Z 29 pad	—	—	AC 701	120 V 4 V	1st condenser microphone with 21 mm, developed with NWDR
KM 54	M 154	—	miniature microphone	1954 - 1969	KK 54	PG	Ni	1954	C, with Z 29	—	—	AC 701	120 V 4 V	
					KK 64...84	PG	Pe/G	64 on	pad	—	—			replacement for KK 54, capsule adapter
MM 3 (u)	—	—	measur. microphone	1954 - 1966	MM 3	P	Alu	1954	O	—	—	AC 701	120 V 4 V	detached capsule, written calibration
KM 56	M 156	—	miniature microphone	1955 - 1970	KK 56 later KK 88	PG	Ni	1955	O, C, 8 with Z 29/56 pad	S	1	AC 701	120 V 4 V	0,7 µm nickel membrane
U 48	—	—	standard microphone	1957 - 1965	see M 7 and K 47/49				C, 8	S	1	VF 14	105 V	see U 47
SM 2	—	—	stereo microphone	1957 - 1966	see KK 56...KK 88				O..C..8	Re (9)	2	AC 701	120 V 4 V	1st condenser stereo microphone
TM 53	—	—	microphone amplifier with capsule	1957 - 1958	TM 53	P	Alu	1957	O	—	—	AC 701	120 V 4 V	for Sennheiser, shotgun

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Neumann	Broadcast	Telefunken												
MM 5 (u)	—	—	measur. microphone	1959 - 1970	MM 5	P	Ni	1959	O	—	—	AC 701	120 V 4 V	see MM2+MM3, 1st measurement micr. w. calibration grid Z 68
KM 253	—	—	miniature microphone	1960 - 1967	see KK 53				O, with Z 29 Pad	—	—	AC 701	120 V 4 V	RF connectors
KM 254	—	—	miniature microphone	1960 - 1969	see KK 54				C, with Z 29 pad	—	—	AC 701	120 V 4 V	RF connectors
					see KK 64...KK 84				C, with Z 29 pad	—	—		120 V 4 V	replacement for KK 54
U 67	—	—	standard microphone	1960 - 1971	K 870/67	PG	Pe/G	1960	O, C, 8 -10 dB, LC	S	3	EF 86	210 V 6,3 V	
M 249	—	—	standard microphone	1961 - 1974	see K 49				O, C	ReP	—	AC 701	120 V 4 V	RF connectors
M 250	—	—	standard microphone	1961 - 1971	KK 53 KK 83	P	Alu Pe/G	1954 1965	O	—	—	AC 701	120 V 4 V	RF connectors
KM 256	—	—	miniature microphone	1961 - 1970	see KK 56...KK 88				O, C, 8 with Z 29 pad	S	1	AC 701	120 V 4 V	RF connectors
SM 23	—	—	stereo microphone	1961 - 1966	see KK 56...KK 88				O, C, 8 with Z 29/SM2 pad	Re (9)	—	AC 701	120 V 4 V	separate supply for both amplifiers, double microphone
M 269	—	—	standard microphone	1962 - 1973	see K 870/67				O..C..8 -10 dB, LC	S/ReP	3	AC 701	120 V 4 V	U 67 for broadcast
SM 69	M 206	—	stereo microphone	1964 - 1973	see K 870/67				O..C..8	Re (9)	—	AC 701	120 V 4 V	
KM 63	—	—	miniature microphone	1964 - 1971	KK 63 later KK 83	P	Pe/G	1964	O	—	1	AC 701	120 V 4 V	amplifier fits KK 83, KK 84, KK 85
KM 64	M 164	—	miniature microphone	1964 - 1971	KK 64 later KK 84	PG	Pe/G	1964	C	—	1	AC 701	120 V 4 V	see KM 63

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Neumann	Broadcast	Telefunken												
KM 65	—	—	miniature microphone	1964 - 1971	KK 65 later KK 85	PG LC	Pe/G	1965	C LC	—	1	AC 701	120 V 4 V	see KM 63
U 64 (u)	—	—	miniature microphone	1964 - 1971	see KK 64...KK 84				C	—	—	7586 (ns)	120 V 5,5 V	Nuvistor, for USA, 1st microphone with XLR connector ('u' version)
SRM 64	—	—	stand tube microphone	1964 - 1971	see KK 64...KK 84				C	—	—	AC 701	120 V 4 V	detached capsule, with swivel
KM 64P	—	—	stand microphone	1965 - 1968	see KK 64...KK 84				C	—	—	—	120 V 4 V	detached capsule, with swivel
KTM	—	—	miniature microphone	1965 - 1966	see KK 64...KK 84				C	—	—	Fet	T 12	start of Fet 70 series, 24 mm, transformerless
KM 66	—	—	miniature microphone	1966 - 1969	see KK 64...KK 84				O, C, 8	S	1	AC 701	120 V 4 V	
KM 73	M 173	—	miniature microphone	1966 - 1970	see KK 63...KK 83				C	—	—	Fet	T 12	KM 63 with T 12
KM 74	M 174	—	miniature microphone	1966 - 1976	see KK 64...KK 84				C	—	—	Fet	T 12	successor of KTM, 21 mm
KM 75	—	—	miniature microphone	1966 - 1974	see KK 65...KK 85				C LC	—	—	Fet	T 12	KM 65 with T 12
KML	—	—	Lavallier microphone	1966 - 1975	see KK 65...KK 85				C	—	—	Fet	spec. +P 48	
M 367	—	—	standard microphone	1966 - 1976	see K 870/67				O, C, 8 -10 dB, LC	S	3	AC 701	120 V 4 V	for France, with Sogie connectors
KM 83 (i) (mt)	—	—	miniature microphone	1966 - 1992	see KK 63...KK 83				O -10 dB	—	1	Fet	P 48	KM 63, 64, 65 with P 48, start of Fet 80 series,
KM 84 (i) (mt)	M 284	—	miniature microphone	1966 - 1992	see KK 64...KK 84				C -10 dB	—	1	Fet	P 48	in „i“ and „mt“

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Neumann	Rundfunk	Telefunken												
KM 85 (i) (mt)	—	—	miniature microphone	1966 - 1990	see KK 65...KK 85				C LC -10 dB	—	—	Fet	P 48	amplifier fits KK 83, KK 84, KK 85
U 87 (i) (mt)	—	—	standard microphone	1967 - 1986	K 87	PG	Pe/G	1967	O, C, 8 -10 dB, LC	S	3	Fet	P 48	battery 2x22,5V, successor of U 67
KM 76	—	—	miniature microphone	1967 - 1976	see KK 64...KK 84				O, C, 8 -10 dB, LC	S	2	Fet	T 12	KM 66 with T 12
—	—	M 280K	miniature microphone	1968 - 1970	see KK 63...KK 83				O	—	—	Fet	P 48	Made for Telefunken M 28. rear sound inlet
—	—	M 280N	miniature microphone	1968 - 1975	see KK 64...KK 84				C	—	—	Fet	P 48	with sheet metal instead of gauze
KM 86 (i) (mt)	M 286	—	miniature microphone	1968 - 1986	see KK 84				O, C, 8 -10 dB	S	2	Fet	P 48	KM 66 with P 48
U 77			standard microphone	1968 - 1974	see K 870/67				O, C, 8 -10 dB, LC	S	3	Fet	T 12	battery 9 V
KMA, KMA-S7			clip microphone	1969 - 1985	KMA	P	Ni	1969	O	—	—	Fet	P 48 indiv.	also with Beyer and Sennheiser wireless transmitters
U 47 fet (i) (mt)			standard microphone	1969 - 1986	see K 47				SC -10 dB, LC	—	2	Fet	P 48	successor of U 47
KM 88 (i) (mt)			miniature microphone	1969 - 1986	see KK 56..KK 88				O, C, 8 -10 dB	S	2	Fet	P 48	DC/DC converter
MK 24			measurement capsule	1969 - 1974	MK 24	P	NiFe	1969	O	—	—	Fet	200 V	1"-capsule for Hewlett-Packard see MK 24
MK 12			measurement capsule	1970 - 1974	MK 12	P	NiFe	1970	O	—	—	Fet	200 V	½" Permenorm membrane
SM 69 fet			stereo microphone	1970 -	see K 870/67				O..C..8	Re (9)	—	Fet	P 48 2x + spec.	special power supply NS 69, CU 48

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U 397	standard microphone	1971 - 1976	see K 870/67				O..C..8 -10 dB, LC	S	3	Fet	-9 V	-9V phantom power for France, transformerless			
SRM 83	stand tube microphone	1971 - 1990	see KK 83				O	—	—	Fet	P 48				
SRM 84	stand tube microphone	1971 - 1990	see KK 84				C	—	—	Fet	P 48	see SRM 63/64/65			
SRM 85	stand tube microphone	1971 - 1990	see KK 85				C LC	—	—	Fet	P 48				
KMS 85 (i) (mt)	vocalist microphone	1971 - 1985	see KK 84				C	—	—	Fet	P 48	pop and shock protected			
KU 80 (i) mt	dummy head	1973 - 1981	see KK 83				Ear -10 dB	—	1	Fet	P 48 2 x	for head-related stereo recordings			
QM 69	quadro microphone	1974 - 1985	see K 870/67				4 x C	—	—	Fet	P 48 4 x	4 x cardioid 4 x amplifier			
U 497	standard microphone	1975 - 1985	see K 49				O, C, 8 -10 dB, LC	S	3	Fet	P 12	for France DC/DC converter			
KMS 84 (i) (mt)	vocalist microphone	1977 - 1991	see KK 84				C -10 dB, LC	—	2	Fet	P 48	successor of KMS 85, removable grille, colours			
KMR 82 (i) (mt)	shotgun microphone	1978 -	KK 82	PG Interfer	Pe/G	1978	Lobe LC, H	—	2	Fet	P 48				
USM 69 (i) (mt)	stereo microphone	1979 -	see K 870/67				O, BC, C, HC, 8	S	2	Fet	P 48 2 x	DC/DC converter			
U 89 (i) (mt)	standard microphone	1980 -	K 89	PG	Pe/G	1979	O, BC, C, HC, 8 -6 dB, LC	S	3	Fet	P 48	DC/DC converter			
KMF 4 i, mt	miniature microphone	1982 - 1988	KK 4	PG	Pe/G	1982	C -10 dB, LC	—	2	Fet	P 48	"mt" only, detached capsule, 17 mm			
KU 81 i	dummy head	1982 - 1992	see KK 83				Ear -10 dB, LC	—	2	Fet	P 48 2 x	see KU 80, diffuse field equalized			
KMR 81 (i) (mt)	shotgun microphone	1983 -	KK 81	PG Interfer	Pe/G	1982	Lobe -10 dB, LC	—	2	Fet	P 48	AES 1982			

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TLM 170 i (mt)			standard microphone	1983 - 1993	see K 89				O, BC, C, HC, 8, Re -10 dB, LC	S	3	Fet	P 48 P 24	Gotham Jubilee, circuit patent, DC/DC, transformerless
U 87 Ai (mt)			standard microphone	1986-	see K 870/67				O, C, 8 -10 dB, LC	S	3	Fet	P 48	with battery, DC/DC converter
RSM 190 system i, mt			stereo shotgun microphone	1987	KK 190MS	PG Interfer	Pe/G	1987	Lobe, 8 MTX	Re (6)	2	Hybrid	P 48 2 x	MS-microphone with matrix box MS, XY Figure-8 level control, „mt“ only
RSM 191 (A) system			stereo shotgun microphone	1988 -	see KK 190 MS				Lobe, 8 MTX	Re (6)	3 (4)	Hybrid	P 48 2 x	see RSM 190, matrix with -L,-R settings, T, -10 dB, battery 9 V
KM 100 system			variable miniature microphone system	1988 -	AK 30 AK 31 AK 40 AK 43 AK 45 AK 50	P P PG PG PG LC PG	Pe/G	1988	O O C BC C HC -10 dB	—	1	Hybrid	P 48	exchangeable active capsules with KM 100 output stage
GFM 132			boundary layer microphone	1990 -	K 32	P	Pe/G	1990	HS -10 dB	—	1	Hybrid	P 48	even in free and diffuse field
TLM 50			pressure microphone	1990 -	K 33	P	Ni	1990	O -10 dB, LC	—	2	Hybrid	P 48	capsule in sphere 40 mm
KMS 140 KMS 150			vocalist microphone	1991 -	see AK 40 see AK 50				C HC -10 dB, LC	—	2	Hybrid	P 48	pop and shock protected
TLM 171			standard microphone	1992	see K 87				O, BC, C, HC, 8 -10 dB, LC	S	3	Fet	P 48	limited edition
KU 100			dummy head	1992 -	see 2 x KK 83				Ear -10 dB, LC	—	3	Hybrid	P 48, batt., extern	for head-related stereo recordings

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KFM 100			sphere microphone	1992 - 1997	see 2 x K 32				O	—	—	Hybrid	P 48 2 x	stereo main microphone
U 67			standard microphone	1993	see K 870/67				O, C, 8 -10 dB, LC	S	3	EF 86	210 V 6,3 V	revival, limited edition
TLM 193 (ni)			standard microphone	1993 -	see K 89				C	—	—	Hybrid	P 48	with SG 193, (special edition in nickel)
TLM 170 R			standard microphone	1993 -	see K 89				O, BC, C, HC, 8, Re -10 dB, LC	S/Re (5)	3	Hybrid	P 48	remote pattern switch (patented) with N 48 R-2 power supply
KM 184			miniature microphone	1993 -	K 40	PG	Pe/G	1988	C	—	—	Hybrid	P 48	capsule of AK 40 / KM 100 system
M 149 Tube			standard microphone	1995 -	see K 49				9fold: O...C...8 7fold: LC	S	2	6111 WA	N149 32/5,2 V	set with KT 8 cable, N 149 power supply and EA 170
KM 84 A			miniature microphone	1996 -	see KK 64...KK 84				C	—	—	Hybrid	P 48	special edition for NHK, Japan
KM 120			miniature microphone	1997 -	K 20	PG	Pe/G	1997	8	—	—	Hybrid	P 48	capsule AK 20 for KM 100 system
TLM 103			standard microphone	1997 -	K 103	PG	Pe/G	1997	C	—	—	Hybrid	P 48	with SG 1
U 87 Gold			standard microphone	1998	see K 870/67				O, C, 8 -10 dB, LC	S	3	Fet	P 48	limited edition, 70 years Neumann
M 147 Tube			standard microphone	1998 -	see K 47/49				C	—	—	6111 WA	N149 A 32/5,2 V	set with KT 8 cable, N 149 A power supply and SG 1
KM 183			miniature microphone	1999 -	K 30	P	Pe/G	1988	O	—	—	Hybrid	P 48	capsule of AK 30 / KM 100 system
KM 185			miniature microphone	1999 -	K 50	PG	Pe/G	1988	HC	—	—	Hybrid	P 48	capsule of AK 50 / KM 100 system