

Contents (Continued)

Chap.	Name or type number	Category/function	Country	Contributor
183	Kaira (v1 01)	Radio Transmitters and Receivers	Russia	Crypto Museum
184	Anker (v1 02)	Radio Transmitters and Receivers	Russia	Various unidentified
185	Alycha (v1 01)	Radio Transmitters and Receivers	Russia	Various unidentified
186	Acacia	Radio Transmitters and Receivers	Russia	Valery, Russia
187	Cigar case	Radio Transmitters and Receivers	Russia	Various unidentified
188	Ataka	Radio Transmitters and Receivers	Russia	Various unidentified
189	Orange-2	Radio Transmitters and Receivers	Russia	Various unidentified
190	Kopchik	Radio Transmitters and Receivers	Russia	Various unidentified
191	Lily (v1 01)	Radio Transmitters and Receivers	Russia	Various unidentified
192	Aryk	Radio Transmitters and Receivers	Russia	Valentin, Russia
193	Angstrem	Radio Transmitters and Receivers	Russia	Various unidentified
194	Aiwa	Radio Transmitters and Receivers	Russia	Various unidentified
195	Volzhanka	Radio Transmitters and Receivers	Russia	Various unidentified
196	R-352 (v1 01)	Radio Transmitters and Receivers	Russia	Günther Fietsch
197	R-353 SM	Radio Transmitters and Receivers	Russia	Alexander, Donetsk
198	R-392 (v1 01)	Radio Transmitters and Receivers	Russia	Günther Fietsch
199	O2R2	Radio Transmitters and Receivers	Russia	Unidentified
200 f)	KR 1000	Radio Transmitters and Receivers	England	Ronald Evers
PART 3				
201	UFT-435	Radio Transmitters and Receivers	GDR	Various
202	Turban	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
203*	Polish AP-5	Radio Transmitters and Receivers	England	
204*	Polish A1	Radio Transmitters and Receivers	England	
205*	Polish NP-3	Radio Transmitters and Receivers	England	
206*	Polish AP-7	Radio Transmitters and Receivers	England	
207*	Polish MR-2	Radio Transmitters and Receivers	England	
208*	Polish misc	Radio Transmitters and Receivers	England	
209*	R-369	Radio Transmitters and Receivers	Russia	
210*	R-129	Radio Transmitters and Receivers	Russia	
211*	R-143	Radio Transmitters and Receivers	Russia	
212*	R-393R	Radio Transmitters and Receivers	Russia	
213	MRK-1	Radio Transmitters and Receivers	Hungary	Own collection
214	Mk. 818A	Power (generators)	England	Mike Willenbroek
215	Mk. 819 *	Power (generators)	England	Mike Willenbroek
216 f)	Mk. 217	Radio Transmitters and Receivers	England	RS Museum
217*	RT-804	Radio Transmitters and Receivers	USA	Jan Bury
218	AN/TRC-10	Radio Transmitters and Receivers	USA	Göran Carlsson
219	CMS	Radio Transmitters and Receivers	USA	Various
220*	SRR-100	Radio Transmitters and Receivers	USA	
221*	Luistervink	Radio Transmitters and Receivers	Holland	
222*	Canteen radio	Radio Transmitters and Receivers	USA	
223	Clandestine Midget Receivers #6	Radio Transmitters and Receivers	Holland	Ronald Evers
224	Clandestine Midget Receivers #7	Radio Transmitters and Receivers	Holland	Ronald Evers
225	Clandestine Midget Receivers #8	Radio Transmitters and Receivers	Holland	Ronald Evers
226*	Clandestine Midget Receivers #9	Radio Transmitters and Receivers	Norway	N Teknisk Museum
227*	Clandestine Midget Receivers #10	Radio Transmitters and Receivers	Norway	N Teknisk Museum
228*	Clandestine Midget Receivers #11	Radio Transmitters and Receivers	Norway	N Teknisk Museum
229*	RR-33	Radio Transmitters and Receivers	USA	Detlev Vreisleben

Contents (Continued)

Chap.	Name or type number	Category/function	Country	Contributor
230*	Unknown GDR RX	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
231	Wheatstone keyer	Radio Transmitters and Receivers	England	Detlev Vreisleben
232	French keyer	Radio Transmitters and Receivers	France	Detlev Vreisleben
233	USA tape punch-keyer	Radio Transmitters and Receivers	USA	Detlev Vreisleben
234	Czech coder	Radio Transmitters and Receivers	Czechoslovakia	Crypto Museum
235	Early R-354 film punch	Radio Transmitters and Receivers	Russia	Crypto Museum
236*	32620 Speech Morse generator	Radio Transmitters and Receivers	GDR	Detlev Vreisleben
237*	KR22-KR23	Radio Transmitters and Receivers	Unidentified	Dave Bushong
238*	Russian bugs	Radio Transmitters and Receivers	Russia	Detlev Vreisleben
239*	Rosemaling Midget Receiver #12	Radio Transmitters and Receivers	Norway	Arkivet, Norway
240*	Clandestine Midget Receiver #13	Radio Transmitters and Receivers	Norway	Arkivet, Norway
241*	Paraset hand generator	Radio Transmitters and Receivers	England	Hjemmefront Museum
242*	Kongshavnerer Pt. 2	Radio Transmitters and Receivers	Norway	Hjemmefront Museum
243*	RN Eureka	Radio Transmitters and Receivers	England	Bjørn West Museum
244	Vanity case agents set	Radio Transmitters and Receivers	Czechoslovakia	Jan Lexa
245*	AS-3 KE-8	Radio Transmitters and Receivers	USA	
246*	AN/PRC-5	Radio Transmitters and Receivers	USA	
247*	Viola-H	Radio Transmitters and Receivers	Russia	
248*	AR 11	Radio Transmitters and Receivers	USA	
249*	1950's miniature	Radio Transmitters and Receivers	Unidentified	
250*	Lusa	Radio Transmitters and Receivers		

Appendix 1 - Other CIA Sets.

Appendix 2 - CIA equipment nomenclature.

Appendix 3 - Summary of Warsaw Pact (VHF FM) covert radios.

Info sheet.

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Without the generous support in the form of photographs, drawings, scans, inside information and general encouragement from many individuals, museums and institutes, this Supplement of WftW Volume 4 'Clandestine Radio' would definitely not have been possible. It is therefore that I gratefully thank the contributors listed below:

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† Silent key.

Not yet acknowledged photos:

In a number of cases it appeared impossible to locate the original source of photographs, or I never received a reply to my request for permission of publication in this free to download publication. I would be grateful to receive information on any possible copyright material which has not previously been acknowledged.

List of abbreviations.

FRG	Federal Republic of Germany (Germany West)	Abt.	Abteilung = Department
GDR	German Democratic Republic (Germany East)	O.G.	Operations Gebiet = Operational Area (Usually Germany West)
BND	Bundesnachrichtendienst (W German Intelligence Service)	IM	Inoffizielle Mitarbeiter = Non official employee (e.g. agent)
PA	Power Amplifier	NVA	Nationale Volksarmee (East German Army)
CO	Crystal Oscillator	HV A	Hauptverwaltung Aufklärung (Head Office Reconnaissance)
OTS	Operativ Technischer Sektor	MfS	Ministerium für Staatssicherheit (Ministry of Security)
TBK	Tote BriefKasten = Dead drop box	UDBA	Yugoslav State Security Administration
OD	Olive Drab (Army green colour)	OG	Organisation Gehlen
MO	Master Oscillator (Variable oscillator)	SVM	SV = Sprachverschleierung (speech concealment), M=(Maskerator), 80 or 100Hz masking hum; (see Chapter 122 for more details.)

Note:
This page is a work in progress. Moore will be added in due course.

Introduction

After finishing WftW Volume 4 '*Clandestine Radio*' in 2004, numerous illustrations, circuits, drawings and technical data of other not yet described clandestine radios (and related equipment) were found and kindly sent to me. I saved this information over the years, with the intention of compiling a follow-up of WftW Volume 4.

When recently considering the current price of printing plus the dramatic rise of shipping cost, I decided to postpone - or eventually cancel - Volume 4A (the working title of the proposed follow-up) for the time being. However, I felt that the already gathered valuable and very interesting information should not be stored in a dusty folder but shared with readers of WftW Volume 4 '*Clandestine Radio*'. In view of today's printing and free distribution methods, I considered several different approaches. Eventually I decided to include the not yet published items and amendments on already published equipment in separate chapters, and publish these as a free to download '*WftW Volume 4 Supplement*' on my website. There is at present much material wait-

ing for inclusion in the Supplement. Because the preparations for the individual chapters is rather time taking, the publication is in loose leaf form, starting with 8 chapters. This has the advantage to issue updates on already published chapters at a later stage when more information might become available.

The actual publication of the next chapters will be spread over the coming years.

The contents of the Supplement is based on WftW Volume 4 '*Clandestine Radio*' having a similar scope of information, with the emphasis on technical details rather than history.

The layout and size of the Supplement is identical to WftW Volume 4, enabling the print-outs to be kept and ready for reading in a standard plastic clear view A4 document folder. A table of contents, intro pages and a front cover, which will give the binder an attractive appearance, are provided in the '*Cover, Intro and Contents pages*'.

The Supplement downloads are in PDF format with high resolution 300dpi high quality illustrations; for best results these should be

printed on A4 paper size, preferably in colour. It must be noted that chapters with more than one page have mirrored gutters; these should be printed as double sided pages.

The information in the Supplement is believed to be correct, but as technical documentation on the covered equipment is rare and/or not generally available for consultation, gaps were unavoidable.

I shall be grateful to receive information on any possible copyright material which has not been previously acknowledged.

Without the generous support in the form of photographs, drawings, scans, inside information and general encouragement from many individuals, museums and institutes, this Supplement of WftW Volume 4 '*Clandestine Radio*' would definitely not have been possible.

Any comments, corrections, better quality photos, additional information and new entries are most welcome, full credit will be given to the contributor.

May 2015

Two years later...

By now the approach of a free to download loose leaf publication in separate chapters of the WftW Volume 4 Supplement appeared to be a good choice. The chapters, similar in style to the Compendium series, with its easy to read and digest contents, and well illustrated layout, is appreciated considering the positive reactions.

After two years and about 140 chapters further, there is still much material in the to-do tray, and more gradually coming in. During the time-taking process of reading, selecting and processing material for new chapters it

was inevitable that in earlier published chapters minor deficiencies were spotted, or additional material was found, resulting in a rather large number of changes.

The original idea behind the WftW Volume 4 Supplement was a list of amendments and additions to the already published chapters in WftW Volume 4 '*Clandestine Radio*'.

As numerous hitherto unknown sets were found ('will it ever stop?' as my Norwegian friend Erling Langemyr used to say when he had located another rare clandestine radio) these were also included in new chapters.

Still later interesting topics, which were not originally within the scope of of clandestine radio, such as infra-red agents communication and line related covert overhearing systems, were included. This was suggested and brought in by Detlev Vreisleben who's extensive and and archive of documents on GDR MfS systems and equipment was indispensable.

August 2017

Another two years later...

In early 2018 it was decided to again broaden the scope of topics with radio and related equipment used by border forces, internal security agencies and special duty forces.

When reaching autumn 2018, the final chapter of Part 2 of the Supplement was finished and awaiting publishing, which took place in December of that year.

It should be noted that the *WftW Volume 4 Supplement* was originally named *WftW Volume 4 Amendment*, but later changed to *Supplement* because most of the chapters contained much later found unpublished material. Several chapters may therefore still have *Volume 4 Amendment* in the copyright line at the bottom.

- There are advanced plans to produce a full colour printed copy of WftW Vol. 4 Part 2, and probably later Part 1 via the print on demand printers www.lulu.com.

Although there is currently enough material to fill part 2, there is always interest in any item to fill more chapters.

February 2019

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