

N1MM Training (Installation + erste Schritte)

Teil 1



Deutscher Amateur-Radio-Club Eva Ortsverband Hamburg-Alstertal E13 © Axel Wieneke / DB1WA



23.07.2018

- Installation N1MM
- Grundeinrichtung NıMM
- Transceiver Einrichtung in N1MM
- Einrichtung Cluster / Telnet in N1MM
- Einrichtung Spectrum Display aus N1MM
- Einrichten Voice Keyer aus N1MM
- Bedienung N1MM

Download von N1MM Internetseite

http://nimm.hamdocs.com

← → C ③ n1mm.hamdocs.com/tiki-index.php





Q

Contest Logging Software

Free Software for Phone, CW, and Digital Modes



N1MM Logger Plus Full Install

O New to N1MM?

Find

Installing N1MM Logger+ for the first time is a two-step process. You must first download and run the Full Install (sometimes also referred to as the Base Install), followed by downloading and running the Latest Update. Each latest update includes significant upgrades, but unless you do the Full Install, subsequent updates will not have all the files they need to operate properly. After performing the Full Install, DO NOT launch the program. Proceed directly to downloading and running the Latest Update (>Files >Latest Update) installer before using the program.

To Download the Full Install program, CLICK HERE TO DOWNLOAD FULL INSTALLER

0 Just starting with N1MM+?

We strongly encourage you to join the N1MMLoggerplus Groups. IO email reflector. Click here to join the N1MMLoggerPlus Reflector

Installation N1MM	
Contest Logging Software Free Software for Phone, CW, and Digital Modes	
nd Q Home * Files * Documents * Hot Topics * Support * Website *	
N1MMplus Full Install @	
NOTE: If you are already running a version of N1MM Plus with the same first number as the file listed here, you DO NOT need to download a newer Full Install if only the second number has changed. EXAMPLE: You are running version 1.0.3456, and the latest version here under Full Install is version 1.0.4567. In that case, you do not need a new Full Install, but only need to download a new Lates Update.	~

File Galleries > N1MMplus Full Install

	Filename	Description	Size	Last modified Piles	Hits	1
æ	N1MM Logger+ FullInstaller 1.0.7182.exe	Full Installer. Required for new installs. The program will prompt if there is a later version available.	8.46 MB	29 May 2018	310513	Ø

N1MM Logger+ FullInstaller downloaden

Contest Logging Software

Free Software for Phone, CW, and Digital Modes

Find	Q							
Home -	Files - Documents -	Hot Topics +	Support +	Website •				
N1MME	N1MMplus Full Install N1MMplus Latest Updates N1MMplus Update History		>					
NOTE: If you a EXAMPLE: You Update.	Experimental Versions	s with the s test version	ame first numb here under Fuli	er as the file liste I Install is versior	f here, you DO NOT need to do 1.0.4567. In that case, you do	wnload a newer Full Insta not need a new Full Insta	all if only the s all, but only ne	econi eed to
File Galleries	Sample Function Key Files User Defined Contests (UDC)							
Filena	Call History Files	escription					Size	Las
N1MM 1.0.71	Additional Support Files Files (list all Galleries)	ll Installer. ailable.	Required for n	ew installs. The	program will prompt if there is	a later version	8.46 MB	29

N1MMplus Lastest Update bitte auch downloaden

N1MMplus Latest Updates @

When installing updates it is only necessary to install the LATEST VERSION. Each version is cumulative in that it contains all changes from previous versions.

NOTE: These updates will not work with N1MM Logger Classic. For N1MMclassic updates, go to: http://n1mm.hamdocs.com/tiki-list_file_gallery.php?galleryId=33

Load the latest version before reporting problems. Only the latest version is supported.

File Galleries > N1MMplus Latest Updates





N1MMplus Lastest Update bitte auch downloaden

Bitte den N1MM Logger+ FullInstaller starten



User Information / Disclaimer bestätigen

N1MM Logger+ 1.0.7182 Setup

User Information / Disclaimer

Please read this information if you are installing N1MM Logger+ for the first time.



+ This program is free software; you can redistribute it and/or modify it. You may not patent it or copyright it. You may copyright changes or extensions you make to it.

X

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+ This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

+ It is possible to DAMAGE EQUIPMENT through computer software. By running this program you acknowledge this risk and accept this risk without recourse to the authors.

When you have read this information, click the 'Next' button below. This information can be found as 'N1MM Logger + Readme.txt' located in the program directory.



Choose Components bestätigen



Choose Install Location (Programmordner) bestätigen

N1MM Logger+ 1.0.7182 Setup	
Choose Install Location Choose the folder in which to install N1MM Logger+ 1.0.7182.	M
This will install N1MM Logger + on your computer. Choose a directory:	
Destination Folder	
C:\Program Files (x86)\N 1MM Logger+	Browse
Space required: 30.2MB Space available: 198.3GB	
< <u>B</u> ark <u>N</u> ext	> Cancel

Choose Install Location (Userordner) bestätigen

noose install Location	N
Choose the folder in which to place y	our user files.
N 1MM Logger + will use this folder for program but may be customizable. To another folder. Click Next to continue	your user files. These are files that are needed by the o install in a different folder, click Browse and select e.
Destination Folder	
Destination Folder	1MM Logger + Browse
Destination Folder C:\Users\Wieneke\Documents\W Space required: 30.2MB	1MM Logger+ Browse
Destination Folder C:\Users\Wieneke\Documents\W Space required: 30.2MB Space available: 198.3GB	1MM Logger + Browse

Installation N1MM Installation startet



Die Installation ist fertig. Bitte mit "Next" weiter.



Die Installation ist fertig. Bevor der Rechner neu gestartet wird bitte das "N1MMplus Lastest Update" installieren,



Nach der Installation sind zwei neue Short Cuts auf den Desktop vorhanden.

Privat	About N1MM Logger+	
 Database Creation Convert existing .mdb database Create new N1MM Logger+ data Open Existing N1MM Logger+ data If this box appears unexpectedly, then your N1M Logger ini file may be compted. Press Cancel, t go to your N1MM installation folder and copy on the N1MM Logger ini.[DayofWeek]bak files to N1MM Logger ini. OK 	Image: Second State Sta	rt, KU7t. copyright it. hout even the acknowledge

N1MMLogger.net	×
Reload of C:\Users\Wieneke\Documents\N1MM Logger+ complete.	\SupportFiles\wl_cty.dat
	ОК

Missing Station Info		
Set up your station info in Config/Station	Edit Station Information	X
ОК	Call DL0AT Tip: You need to fill out th or the program will not pe properly Also, make sur computer date and time a the LOCAL date and time for your location.	is form erform re your ire set to zone
	City Hamburg State Zip 22177 Country Germany	
	Grid Square J053A0 CQ Zone 14 ITU Zone 28 License A Latitude 53,6042 N Congitude 10,0417 Station TX/RX Icom IC-7300 Power 100	E 👻
	Antenna Ant. Height a.s.l.	
In ARRL Section	Club Email address axel@db1wa.de	
Ditte "DA enitragen.	<u>Ok</u> <u>H</u> elp <u>Cancel</u>	

Transceiver Einrichtung N1MM

Transceiver Einrichtung N1MM

Einstellungen können je TRX verschieden sein!!!

14208,10 USB IC-7300 VFO A		
N1 14208,10 USB IC-7300 VFO A File Edit View Tools Config CW PH 160 160 80 80 Image: Run Image: Ru	Window Help Available Mult's & Q's Comment Bandmap Check Check CW Key CW Key Strg+K CW Reader 4 DLOAT Digital Interface 4 DLOAT Entry Window 0 Spare Gray Line Mark Info Log Strg+L Led. Move Multipliers No Scool	t 5 His Call F6 Spare 11 Spare F12 Wipe pre Spot It QRZ re
	Multipliers Network Status Rotor Windows Talk to Another Station Strg+E Score Summary Spectrum Display Telnet Visible Dupesneet	

ype:	Reconnect
Clusters Bands/Modes Filters Spot	Comment BandPlans
·	1 1
Selected Cluster	
2	✓ Edit List
Automatically Legon	Logon With
	DLOAT
Connect for DVColder Charter	III Chau Talash Duttana
Format for DASpider Cluster	Show reiner Buttons
Connect	3 Cluster Keep Alive Interval (minut

Bitte den gewünschten Clusterknoten wählen.

Telnet					
ype:	Reconn	ect			
Clusters Bands/Modes Filters Spot Comment B	BandPlans				
Selected Cluster	\frown				
	▼ Edit List				
Automatically Logon	Logon with				
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Eormat for DXSoider Cluster	Show Tel	et Buttons			
	3 📥 d	Edit Telnet List	- Charles	The later of	×
connect		File			-
		Cluster Name	URL		
		AB5K-2	DXC-US.AB5	K.NET	
		CS1SEL-5	193.137.221	.244	
		CT2GWY-5	217.129.65.1	94:8181	
		CT3MY-7	CT3MY.ZAR	CO.ORG:7300	
		CT4KQ-5	194.65.81.45	5	
JBOSUE Ditte ander	m.	DBOHST	194.94.76.14	10:7300	
		DB0SUE-7	db0sue.de:8	000	
		DB0ZWI 8	141.32.30.11	7:4111	
		o delete a row, click on the	e leftmost column and p	press the delete key.	k Cancel

https://www.ng3k.com/Misc/cluster.html

ype:	Reconnect
BOSUE-7 Clusters Bands/Modes Filters Sp	oot Comment BandPlans
Selected Cluster	
DB0SUE-7	Edit List
Automatically Logon	Logon with
	DLOAT
Format for DXSpider Cluster	Show Telnet Buttons
Connect to DB0SUE-7	3 A Cluster Keep Alive Interval (minut
	1

Bitte "DBoSUE-7" aus der Liste auswählen. Bitte "Automaticaly Logon" anklicken.

ype:				Reconnect	
DB0SUE-7 Clust	ers Bands/Mod	es Filters Spot (Comment Bandf	Plans	
Connecting to Login: DLØAT DLØAT	: db0sue.de:	8000> 212.	.51.10.184:80	900	
Hello <axel>, running DXSpi Cluster: 393 Please enter DLØAT de DBØS</axel>	this is DB0 der V1.55 bu nodes, 230 l your locatio SUE-7 23-Jul-	SUE-7 in Kiel ild 0.136 ocal / 3639 t n with set/lo 2018 1206Z dy	l total users ocation or se (spider >	Max users 827 et/qra	'8 Uptime 1
Hello <axel>, running DXSpi Cluster: 393 Please enter DLØAT de DBØS</axel>	this is DB0 Ider V1.55 bu nodes, 230 l your locatio SUE-7 23-Jul-	SUE-7 in Kiel ild 0.136 ocal / 3639 t n with set/lc 2018 1206Z d>	L total users cotion or se kspider >	Max users 827 t/qra	78 Uptime 1
Hello <axel>, running DXSpi Cluster: 393 Please enter DLØAT de DBØS M<u>B</u>YE</axel>	this is DB0 der V1.55 bu nodes, 230 l your locatio SUE-7 23-Jul- <u>C</u> ONN	SUE-7 in Kiel ild 0.136 ocal / 3639 t n with set/lc 2018 1206Z d> 	L total users ccation or se cspider > <u>S</u> H/DX	Max users 827 et/qra	'8 Uptime 1 ► <u>₩</u> WV

Fertig...der Cluster verbindet sich.

Die gewünschten Bänder können über "Bands/Modes" Eingestellt werden.

1 Telnet		
ype:		Reconnect
DB0SUE-7 Clusters Bands/Modes Filters Spot Com	nment Bandf	Plans
Bandman DV anot timeout (min) 20	upda	te
Danumap DA spot timeout (min) 20		
Show non-workable spots	1	
Show non-workable spots QSYing wipes call and puts it in the bandmap		
 Show non-workable spots QSYing wipes call and puts it in the bandmap Randomize Incoming Spot Frequencies 		Tip: Filter as many spots as you can at the cluster. It lowers the
 Show non-workable spots QSYing wipes call and puts it in the bandmap Randomize Incoming Spot Frequencies Include spots only originating in: 		Tip: Filter as many spots as you can at the cluster. It lowers the cpu workload on your computer
Show non-workable spots OSYing wipes call and puts it in the bandmap Randomize Incoming Spot Frequencies Include spots only originating in: DL EU		Tip: Filter as many spots as you can at the cluster. It lowers the cpu workload on your computer (s).

Unter "Filters" findet man die Einstellung "Bandmap DX spot timeout (min)" es empfiehlt sich diese Zeit auf ca. 20 min zu stellen.

Einrichtung Spectrum Display aus N1MM

14208,30 USB IC-7300 VFO A		
File Edit View Tools Config CW PH 160 160 80 80 40 40 30 30 F1 S&P CQ F2 I 20 20 F7 Rpt Exch F8 / 15 15	Window Help Available Mult's & Q's Bandmap Check CW Key Strg+K CW Reader Digital Interface Entry Window Gray Line	Comment F5 His Call F6 Spare F11 Spare F12 Wipe ark Store Spot It QRZ
12 12 Heading appears he 10 10 Call history User	Info Log Strg+L Move Multipliers Multipliers Network Status Rotor Windows Talk to Another Station Strg+E Score Summary Spectrum Display	led. No Score
	Visible Dupesheet	

Unter "Window" den Punkt "Spectrum Display" wählen.

Einrichtung Spectrum Display aus N1MM

14200,00 USB Manual - VFO A				
File Edit View Tools Co	nfig Window Help			
	Configure Ports, Mode Control, Audio, Other			
CW PH	Change Your Station Data			
160 160	Use Logger+ Audio			
80 80 🔵 🔴 🔿 Run	Enter Sends Message (ESM mode)	Strg+M		
40 40	Spot All S&P QSO's			
30 30 F1 S&P CQ	QSYing Wipes the Call & Spots QSO in Bandmap (S&I	P)	F5 His Call	F6 Spare
17 17 F7 Rpt Exch	Grab Focus From Other Apps When Radio is Tuned		F11 Spare	F12 Wipe
15 15 Esc: Stop	Do Not Automatically Switch to Run on CQ Frequency	y	<u>o</u> re	Spot It QRZ
12 12 Heading app	Show Non-Workable Spots and Dupes in Bandmap			
10 10 Call histor	Reset RX Freq to TX when QSO is Logged (Run & Split	t)		
0 spots loaded after filtering.	Sub Receiver Always On C	trl+Alt+D	re	.d
	CQ Repeat	Alt+R		2
	Set CQ Repeat Time	Strg+R		
	CW / PH AutoSend Threshold			
	Enable Call History Lookup			
	Change CW/SSB/Digital Function Key Definitions		¥	
	Change Band Plan		*	
	Manage Skins, Colors and Fonts			
	Change Operator Callsign Stored in Log	Strg+O		
	Change Exchange Abbreviations		¥	
	SO2R		*	
	WAE		b .	
	Clear *.ini File Settings			
	SO2V Dual Receive		(e)	

	Jigital modes	Other	Winkey	Mode Control	Antennas	Score Reporting	Broadcast Da	ta A
- Only use Radio 1 Output I	Device; Outp	ut on both o	channels			•		
or Advanced Void	cing Fea	tures, s	elect	'N1MM Lo	ogger+ A	Audio" in Co	onfig menu	ı
Tx Sound Card Setup								
		192002 BV 0			itout Daviaa	r		
Radio 1 Output Device Lau	utsprecher (U	ISB Audio (CODEC	Radio 2 Ot	itput Device	Default		
Radio 1 Output Device Lau	utsprecher (L	ISB Audio (CODEC	Radio 2 Of	nput Device	Default		•
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Radio 1 Output Device Lau Radio 1 Output Device is a	utsprecher (L an Internal Ra	ISB Audio (adio Codec		Radio 2 O	utput Device	is an Internal Rad	lio Codec 🛛 🕅	•
Radio 1 Output Device Lau Radio 1 Output Device is a Select Port to Mute	utsprecher (L an Internal Ra	ISB Audio (adio Codec		Radio 2 O Radio 2 O Select	utput Device Port to Mute	Default is an Internal Rad	lio Codec 🛛 🕅	•
Radio 1 Output Device Lau Radio 1 Output Device is a Select Port to Mute Select Message Recordin	utsprecher (L an Internal Ra 1g Device L	ISB Audio (adio Codec .autsprech	v v er (USB A	Radio 2 O Select	utput Device	Default is an Internal Rad	iio Codec 📄 👻	

Will man den Voice Keyer aus N1MM nutzen muss im Audio Menü folgende Einstellung vorgenommen werden.

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📔 Bilder	BFDX	20.01.2017 11:26	Dateiordner
📑 Dokumente	🔒 Bluetooth	12.06.2014 13:26	Dateiordner
🌙 Musik	HOBOware	25.09.2014 14:24	Dateiordner
Videos	📕 Lantronix	23.05.2018 10:27	Dateiordner
	🙆 Meine Datenquellen	09.10.2014 09:08	Dateiordner
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Dete Bearbearn Format Anicht 1 # SSB Function key File # dits may be necessary before using this file # RUN Messages # Sob Messages # RUN Messages # RUN Messages # Sob	SSB Default Messages - Editor		
# SSB Function Key File # ddits may be necessary before using this file # use ctrl0 in the program to set the Operator callsign # RUN MeSsages ####################################	Datei Bearbeiten Format Ansicht ?		
<pre># ddits may be necessary before using this file # use ctrl=0 in the program to set the operator callsign ####################################</pre>	# SSB Function Key File		*
<pre>####################################</pre>	# # Edits may be necessary before using this file # Use Ctrl+0 in the program to set the Operator callsign #		
<pre>F2 CG EN, [OPERATOR]\CGLN.wav F3 TNX, [OPERATOR]\MyCall.wav # Add "1" to the F5 message if you are using voicing of callsigns F5 QG2; [OPERATOR]\AUX.wav F5 Your Call?, [OPERATOR]\RptYourCall.wav F6 Your Call?, [OPERATOR]\RptYourCall.wav F8 Your Call?, [OPERATOR]\RptyourCall.wav F9 Your Call?, [OPERATOR]\RptyourCall.wav F8 Your Call?, [OPERATOR]\RptyourCall.wav F8 Your Call?, [OPERATOR]\RptyourCall.wav F8 Your Call?, [OPERATOR]\RptyourCall.wav F9 Your Call?, [OPERATOR]\RptyourCall.wav F9 Your Call?, [OPERATOR]\RptyourCall.wav F9 Your Call?, [OPERATOR]\RptyourCall.wav F9 Your Call?, [OPERATOR]\RptyourCall.wav F8 Your Call?, [OPERATOR]\RptyourCall.wav F8 Your Call?, [OPERATOR]\RptyourCall.wav F9 Your Call?, [OPERATOR]\RptyourCall.wav F8 Your Call?, [OPERATOR]\RptyourCall.wav F9 Your Call?, [OPERATOR]\RptyourCall.wav F8 Your Call?, [OPERATOR]\RptyourCall.wav F9 Your Call?, [OPERATOR]\RptyourCall.wav F10 Spare, F11 Spare, F12 Your Call?, [OPERATOR]\RptyourCall.wav F12 Your Call?, [OPERATOR]\RptyourCall?, [OP</pre>	**************************************		
<pre>F5 GR2?, (OPERATOR) \GR. wav F6 GAPR; (OPERATOR) \GR. wav F7 D0K?, (OPERATOR) \GR. wav F9 Spare, F11 Spare, F11 Spare, F11 Spare, F12 Spare, ################ # "S&P Messages ################ # "&" doubled, displays one "&" in the button label F1 S&&AP (Q {OPERATOR}) \Gr. wav F2 Exch, (OPERATOR} \Gr. wav F3 Spare, f4 {WrCALL}, (OPERATOR} \MyCall. wav # Add "!" to the F5 message if you are using voicing of callsigns F5 His Call, F8 AppR : (OPERATOR) \RepeatExchange. wav F8 AppR : (OPERATOR) \RepeatExchange. wav F8 AppR : (OPERATOR) \RepeatExchange. wav F9 Zone; {OPERATOR} \RepeatZone. wav F1 Spare, F1 Spar</pre>	F2 CQ EN,{OPERATOR}\CqEN.wav F3 TNX,{OPERATOR}\Thanks.wav F4 {MYCALL},{OPERATOR}\MyCall.wav # Add "!" to the F5 message if you are using voicing of callsigns		
F9 spare, F10 spare, F11 spare, F12 spare, # ##################################	F5 QRZ?,{OPERATOR}\QRZ.wav F6 Agn?,{OPERATOR}\Agn.wav F7 DOK?,{OPERATOR}\Dok.wav F8 Your Call?,{OPERATOR}\RptYourCall.wav		
<pre># ###################################</pre>	F9 Spare, F10 Spare, F11 Spare, F12 Spare,		
<pre># S&P Messages ####################################</pre>	#		
<pre>####################################</pre>	# S&P Messages		
<pre># a Goudred, displays one a in the button laber F1 S&&F co, {OPERATOR}\c, wav F2 Exch, {OPERATOR}\c, wav F3 Spare, F4 {MvCALL}, {OPERATOR}\wycall.wav # Add "!" to the F5 message if you are using voicing of callsigns F5 His Call, F6 Spare, F7 Rpt Exch, {OPERATOR}\RepeatExchange.wav F8 Agn?, {OPERATOR}\RepeatZone.wav F9 Zone, {OPERATOR}\RepeatZone.wav F10 Spare, F11 Spare, F12 wipe, {WIPE}</pre>	######################################		
F2 Exch,{OPERATOR}\S&PExchange.wav F3 Spare, F4 {MYCALL},{OPERATOR}\MyCall.wav # Add "!" to the F5 message if you are using voicing of callsigns F5 His Call, F6 Spare, F7 Rpt Exch,{OPERATOR}\RepeatExchange.wav F8 Agn?,{OPERATOR}\RepeatZone.wav F9 Zone,{OPERATOR}\RepeatZone.wav F10 Spare, F11 Spare, F12 Wipe,{WIPE}	F1 S&&P CQ,{OPERATOR}\Cq.wav		
F3 Spare, F4 {MYCALL},{OPERATOR}\MyCall.wav # Add "!" to the F5 message if you are using voicing of callsigns F5 His Call, F6 Spare, F7 Rpt Exch,{OPERATOR}\RepeatExchange.wav F8 Agn?,{OPERATOR}\RepeatZone.wav F9 Zone,{OPERATOR}\RepeatZone.wav F10 Spare, F11 Spare, F12 Wipe,{WIPE}	F2 Exch, {OPERATOR}\S&PExchange.wav		
# Add "!" to the F5 message if you are using voicing of callsigns F5 His Call, F6 Spare, F7 Rpt Exch,{OPERATOR}\RepeatExchange.wav F8 Agn?,{OPERATOR}\RepeatZone.wav F9 Zone,{OPERATOR}\RepeatZone.wav F10 Spare, F11 Spare, F11 Spare, F12 wipe,{WIPE}	F3 Spare, F4 {MYCALL}.{OPERATOR}\MYCall.way		
F5 HIS Call, F6 Spare, F8 Agn? {OPERATOR}\RepeatExchange.wav F8 Agn? {OPERATOR}\RepeatZone.wav F9 Zone, {OPERATOR}\RepeatZone.wav F10 Spare, F11 Spare, F12 Wipe, {WIPE}	# Add "!" to the F5 message if you are using voicing of callsigns		
F7 Rpt Exch,{OPERATOR}\RepeatExchange.wav F8 Agn?,{OPERATOR}\AllAgain.wav F9 Zone,{OPERATOR}\RepeatZone.wav F10 Spare, F11 Spare, F12 Wipe,{WIPE}	F5 His Call,		
F8 Agn? {OPERATOR\AllAgain.wav F9 Zone, {OPERATOR}\RepeatZone.wav F10 Spare, F11 Spare, F12 Wipe, {WIPE}	F7 Rpt Exch,{OPERATOR}\RepeatExchange.wav		
F10 Spare, F11 Spare, F12 Wipe,{WIPE}	F8 Agn?, {OPERATOR\AllAgain.wav		
F11 spare, F12 wipe,{wIPE}	F10 Spare,		
FIZ WIPE, {WIPE}	F11 Spare,		
	FIZ wipe, {wire}		

"SSB Default Messages " nach Bedarf anpassen. Nach einen Neustart von N1MM sind die Einstellungen aktiv.

Bedienung N1MM

Short Cuts (Tastenkombinationen):

Leertaste	=	Clusterspot übernehmen
Str + W	=	Eingabe löschen
Str + D	=	QSO aus Log löschen
Str + Q	=	Letztes QSO editieren
Str + O	=	Operatorwechsel
<u>Pfeiltasten:</u>		
Hoch	=	Frequenz hoch
Runter	=	Frequenz runter
Str+Hoch	=	Nächster Clusterspot nach oben
Str+Runter	=	Nächster Clusterspot nach unten

Danke für die Aufmerksamkeit