

11. Online-Einheit



- Wiederholung K bis , (21 Zeichen)
- Externe Keyer Hardware
- Neues Zeichen V
- Externe Keyer mit Logging/Contesting
- Neues Zeichen G
- Gebeübungen (K,M,U,R,E,S,N,A,P,T,L,W)

Externe Keyer

- Keyer-Elektronik mit Tasten- und PC-Anschluss (USB, seriell)
- Klassische Keyer-Funktion Iambic, Bug, Ultimatic, Speicher
- CW-Geben aus dem PC und in den PC (Iambic Master)
- Unterstützung durch Log- und Contestprogramme
- Original, Open Source, Varianten und Klone



Quellen: K1EL Systems, K3NG radioartisan, PUEKEO AliExpress

DARC e.V.

Link-Liste (Auswahl)

- Original K1EL

<https://www.k1elsystems.com/WKUSBX.html>

- Open Source Variante K3NG

<http://radioartisan.wordpress.com/arduino-cw-keyer/>

- China-Umsetzung der Open Source Variante

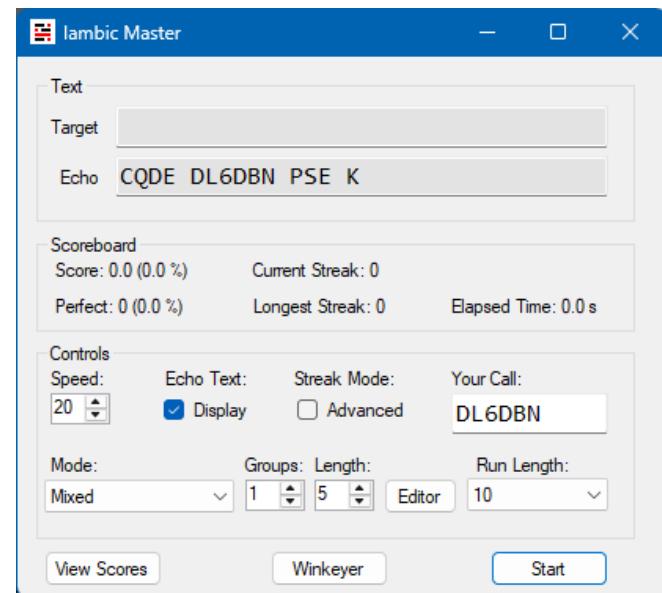
<https://de.aliexpress.com/item/1005005335071085.html>

<https://de.aliexpress.com/item/1005010166730890.html>

<https://de.aliexpress.com/item/1005005270162477.html>

Ext. Keyer und PC-Programme

- Anschluss über USB-Schnittstelle
- Log- und Contestprogramme mit:
- Makros (Speicher) und freier Text
- Automatisch CQ und Rapporte
- z.B. N1MM+, Log4OM u. v. a. m.
- Iambic Master
zum Geben üben mit Keyern



7048.81 CW Manual - VFO A

Datei	Bearbeiten	Zeige	Werkzeuge	Konfiguration	Fenster	Über	20:18:46Z
CW	PH	CQ-Frequency					
160	160						Snt Rcv Name Comment
80	80						
(40)	40	● ● ●	Run	<input type="radio"/> S&P	17	<input type="button" value="▲"/>	
30	30						
20	20	<input type="button" value="F1 Cq"/> <input type="button" value="F2 Exch"/> <input type="button" value="F3 Tu"/> <input type="button" value="F4 DL6DBN"/> <input type="button" value="F5 His Call"/> <input type="button" value="F6 Repeat"/>					
17	17	<input type="button" value="F7 Exch full"/> <input type="button" value="F8 Agn?"/> <input type="button" value="F9 Nr?"/> <input type="button" value="F10 Call?"/> <input type="button" value="F11 Spare"/> <input type="button" value="F12 Wipe"/>					
15	15	<input type="button" value="Esc: Stopp"/> <input type="button" value="Löschen"/> <input type="button" value="Loggen"/> <input type="button" value="Bearbeiten"/> <input type="button" value="Markieren"/> <input type="button" value="Speichern"/> <input type="button" value="Spotten"/> <input type="button" value="QRZ"/>					

Ext. Keyer und Logger

Keyer interface

RX TX 14 1709 10 355 1000 RX TX Azimuth 0° Elevation 0°

CW TEXT GA LBR OM ES DK FER CALL = UR 599 599 IN SIEGEN = NAME FRANK FRANK = BTU|

Serial/Paddle echo

Speed 20 SpeedPOT (min) 12 SpeedPOT (max) 30 Direct Type mode TUNE

CALLSIGN S 59 R 59

Operator name Grid Start 30.11.2025 20:12:20 End 30.11.2025 20:12:20

Band 20m Comment Note

Mode USB

Country ITU CQ

Freq 14170 KHz RX Freq 14170 KHz RX Band 20m

Stats (CTRL-F1) **Info (CTRL-F2)** **Awards (CTRL-F3)** **My (CTRL-F4)** **Extended (CTRL-F5)**

NEW ONE **NEW BAND** **NEW MODE**
NEW GRID **GRID BAND** **GRID MODE**
Country - Call **Band - Call** **Mode - Call**
QSL **QSL** **QSL**
EQSL **EQSL** **EQSL**
LOTW **LOTW** **LOTW**
QRZCOM **QRZCOM** **QRZCOM**

- 160 80 60 40 30 20 17 15 12 10 6 4 V U
PH CW DIG

Main (CTRL-F6) **Recent QSO's (CTRL-F7)** **Cluster (CTRL-F8)** **Macro (CTRL-F9)** **CW History (CTRL-F10)** **Macro information** **Winkeyer Settings**

Message 1	CQ CQ DE * K	Short desc	CQ SHORT	TX (F1)
Message 2	CQ CQ CQ DE ** PSE K	Short desc	CQ LONG	TX (F2)
Message 3	! DE * PSE K	Short desc	ANSWER	TX (F3)
Message 4	! DE * = UR RST <STTX> <STTX> = NAME IS <NAME> = QTH IS <MY_QTH> = SO HW? BTU K	Short desc	QSO	TX (F4)
Message 5	! DE * 73 GD DX <NAME> QSL VIA LOTW OR BUREAU * SK	Short desc	73	TX (F5)
Message 6	*	Short desc	CALL	TX (F6)
Message 7	SNN	Short desc	599	TX (F7)
Message 8		Short desc		TX (F8)
Message 9		Short desc		TX (F9)
Message 10		Short desc		TX (F10)
Message 11		Short desc		TX (F11)
Message 12		Short desc		TX (F12)

[<MY_CALL> OR *] [<CALL> OR !] [<STRX>] [<STRXF>] [<STTX>] [<STTXF>] [<NAME> OR <MY_NAME>] [<HIS_NAME>]
[<COUNTRY>] [<GRID>] [<MY_IOTA>] [<MY_SOTA>] [<MY_OPCALL>] [<MY_QTH>] [<MY_ANTENNA>] [<MY_RIG>] [<CONT_RX>]
[<CONT_TX>] [<TEMP_C>] [<TEMP_F>] [<PRESSURE_MMHG>] [<PRESSURE_HP>] [<WIND_DIR>] [<WIND_SPD_KMH>]

Disconnected Closed | Current macro file: defaultMacro.txt Keyer engine: Winkeyer ::