

Manual

TTL converter Mk.III

- E-TTL II
- iTTL



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contact

Engineering Office HeinrichsWeikamp GbR

Adlerstraße 7

79098 Freiburg

Germany

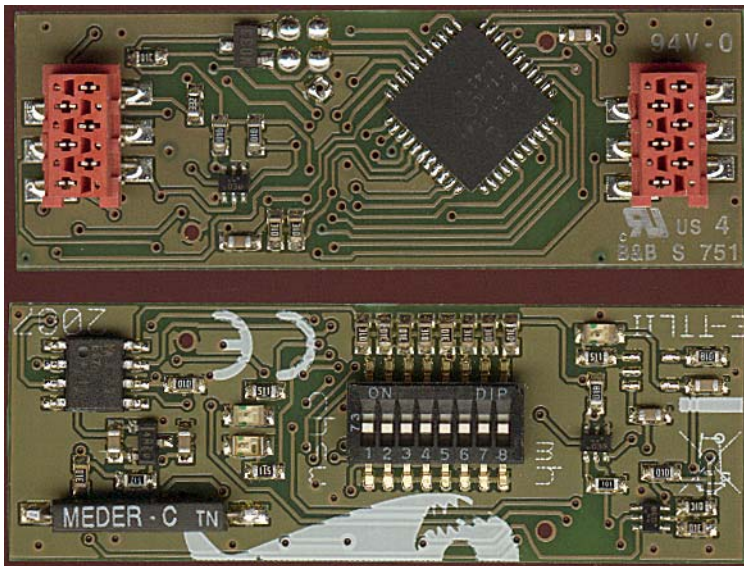
www.heinrichsweikamp.com

info@heinrichsweikamp.com

Welcome

The external converter used a unique converter PCB which includes the microprocessor based converter circuit, a 8bit DIP switch for configurations plus additional signals for debugging purposes. This board is available as TTL converter Mk. III.

Abb. 1: The converter PCB (bottom and top side)

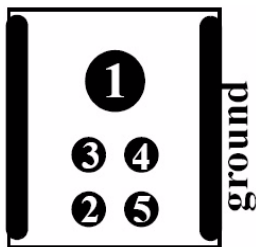
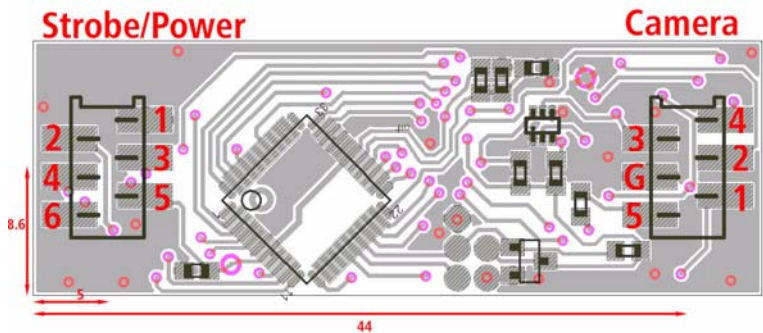


Installation

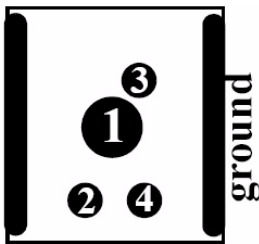
The converter PCB is a „naked” PCB - it must handled with care!
Even after installtion any contact with wet fingers must be avoided!

TTL converter Mk.III

Camera connections



Canon



Nikon

All six (Canon) or all five (Nikon) connections are required for a proper operation. The pinlayout of the converter PCB is identical with older converters.

Both connectors are 6pin Tyco/AMP „Micromatch” connectors.

Table 1: Pin layout of „Strobe/Power” connector

Pin 1	GND
Pin 2	Quench / TTL
Pin 3	Trigger / X
Pin 4	Ready
Pin 5	Vbatt (3.7V - 4.2V) / external power supply (3.6V 1/2 A Lithium Cell)
Pin 6	5V Charge input (Use ONLY when a LiPoly battery is connected to Vbatt!)

DIP Switches

Tabelle 2: settings for strobe type

„5”	„6”	„7”	strobe	switch setting
0	0	0	standard	
1	0	0	Subtronic Mini	

Tabelle 2: settings for strobe type

„5”	„6”	„7”	strobe	switch setting
0	1	0	Subtronic Maxi Subtronic Midi	
0	0	1	Hartenberger 250 TTL HS Digital	
1	1	0	Sea&Sea YS250	

Tabelle 3: settings for Manual/ TTL

„1”	„8”	TTL Typ	switch setting
0		TTL	

Tabelle 3: settings for Manual/ TTL

„1”	„8”	TTL Typ	switch setting
1		Manual	
	0		
	1		

Tabelle 4: settings for exposure compensation

„2”	„3”	„4”	compensation	switch setting
0	0	0	+/-0 EV	
0	0	1	+ 3 EV	
0	1	0	+ 2 EV	
0	1	1	+ 1 EV	

Tabelle 4: settings for exposure compensation

„2”	„3”	„4”	compensation	switch setting
1	0	0	+/-0 EV	
1	0	1	- 1 EV	
1	1	0	- 2 EV	
1	1	1	- 3 EV	

battery protection circuit

The converter is automatically switched off in case the battery power is very low. The red LED indicating low battery is turned off. The communication with the camera is switched off.



in case of very low battery power the green LED stops flashing. The communication with the camera is stopped and the strobe will not be triggered anymore.

IMPORTANT



strobes using high voltages for signals, mostly older strobes, must not be connected to the converter because of damage and danger of fire. Damage may occur if non compatible or non standard TTL compatible strobes are connected to the converter. This includes strobes that are build for directly connecting to your digital camera.

Technical specifications

power supply

max. 5mA @ 3.7 to 4.2 Volt (One LiPoly Battery)

When using a non-rechargeable battery a 1/2 A 3.6V Lithium cell is recommended

<10 μ A when attached strobe is OFF

dimensions

approx. 49 x 17 x 14 mm (width x length x height)

weight

approx. 5 g (without battery)

operating conditions

ambient temperature (With battery) 0 to 40 °C

ambient temperature (converter only) -10 to 50 °C

Ⓓ CE Konformitätserklärung

Die eTTL, iTTL und Olympus-TTL Produkte sowie Leckwarner und OSTC der HeinrichsWeikamp GbR entsprechen den Anforderungen der Richtlinie des EU-Rates 89/336/EEC (EMV) und 2004/108/EC (EMV), ggf. ergänzt, in der Angleichung der Rechtsvorschriften der Mitgliedstaaten in Bezug auf die elektromagnetische Verträglichkeit.

ⒼⒷ CE Declaration of Conformity

Products by HeinrichsWeikamp for eTTL, iTTL, Olympus-TTL, leak warner and OSTC comply with the requirements of the Council Directives 89/336/EEC (EMC) and 2004/108/EC (EMC), as amended where applicable on the approximation of the laws of the member states relating to Electromagnetic Compatibility.

HeinrichsWeikamp GbR
Freiburg (Germany), 2009

Matthias Heinrichs

Christian Weikamp

Ⓓ RoHS Konformitätserklärung

Die HeinrichsWeikamp GbR erklärt hiermit, dass alle von uns ab Januar 2006 hergestellten Produkte RoHS-konform sind gemäß EU-Richtlinie 2002/95/EG bezüglich folgender Substanzen:

Blei (Pb)
Cadmium (Cd)
sechswertiges Chrom (Cr(VI))
Quecksilber (Hg)
Polybromierte Biphenyle (PBB)

ⒼⒷ Declaration of RoHS Compliance

HeinrichsWeikamp GbR herewith declares that as from January 2006, all of our products are manufactured RoHS conformal in full compliance with EU Directive 2002/95/EC with respect to the following substances:

Cadmium (Cd)
Hexavalent chromium (Cr(VI))
Lead (Pb)
Mercury (Hg)
Polybrominated biphenyls (PBB)
Polybrominated diphenyl ethers (PBDE)

HeinrichsWeikamp GbR
Freiburg (Germany), 2009

Matthias Heinrichs

Christian Weikamp

manual: PCB for external converter/TTL converter Mk.III

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