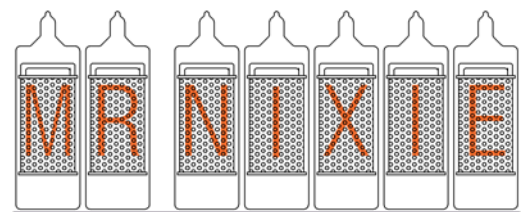*Laura* is Mr.Nixie's new creation of a series of tiny Nixie clocks starting with the unusual IN-2 Nixie tubes. Based on the past experiences of hundreds of sold kits and the wishes from our customers, the software was radically re-written and is now backed with a lot of new features. Also an „ultra cool" HV converter design was introduced, which minimizes the heat created by the inductor / switching transistor to an maximum of only 30°C. This results in an efficiency > 90% and the possibility to power the clock from a single USB connector. In the same way the radiated EMI noise was dramatically reduced.

Preliminary Features List
• Hours, Minutes and Seconds display
• 3 x 2 multiplex for less tube noise and higher brightness; based on the modern HV5812 Supertex driver
• 12 or 24 hour modes
• Uses a Quartz Crystal Oscillator as the timebase with adjustable accuracy
• Programmable leading zero blanking
• Date display in either DD.MM.YY or MM.DD.YY or YY.MM.DD format
• Programmable date display each minute
• Scrolling display during fading in the date or standard display change
• Alarm with programmable snooze period
• Optional DCF / WWVB / MSF / GPS sync. with status LED; prepared for fitting the receiver module from the „Wireless GPS connection"
• Dedicated DST button for easy switching between DST and standard time
• Supercapacitor backup. Keeps time during power outages for more than 24 hours.
• Simple time setting using two buttons
• Programmable leading zero blanking
• Five programmable neon colon settings (Flashing AM/PM indication, illuminated AM/PM indication, both flashing, both on, both off)
• Seconds can be reset to zero to precisely the set time
• Programmable night mode - blanked or dimmed display to save tubes or prevent sleep disturbance
• Rear Indicator LEDs dim at night to prevent sleep disturbance
• Weekday aware „Master Blank" function to turn off the tubes on weekends or during working hours
• Separate modes for colon neons during night mode
• Standard, fading, or fading + scrollback display modes as eye-catcher
• „Slot Machine" cathode poisoning prevention routine
• Programmable RGB tube lighting – select your favourite colour palette
• 729 colours possible. Have a different colour of your choice every hour, or autochanging colours
• High efficiency „ultra cool" HV converter, Power consumption less than 2 VA even when RGB lighting is fully turned on.
• Powered from a single USB outlet (from your PC or a cellphone charger)
• All user preferences stored to non-volatile memory

Available as a fully inclusive kit (all SMT parts are just pre-assembled and soldered) at the end of July 2012. Kit includes all – except of the shown cigarrette box ;-) to build a functional clock incl. enclosure and two spare tubes.

Feine Röhren-Bausätze, entwickelt und zusammengestellt in Nürtingen
Finest Quality tube kits, carefully engineered and assembled in Germany

TUBE SOCKET PINS FROM THIS SIDE

Laura

IN-2
Nixie-Clock

SYNC   ALARM

DATA   DST

ALM ● B   R ● SET
        LED-MENU
DST ● IO   ●   G ● ADJ

CAUTION • HIGH VOLTAGE
NO SERVICING PARTS INSIDE

MR NIXIE

TIME
DATA

USB
5VDC

CAREFULLY ENGINEERED
ASSEMBLED IN GERMANY