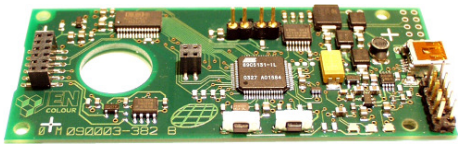
Modular JENCOLOR
OEM Hardware Solution

PRODUCT INFORMATION

The modEVA concept for JENCOLOR color sensors

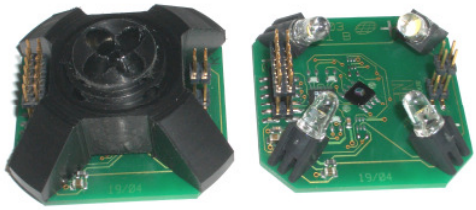
- *Modularly configurable application board, comprising main board, sensor plug-modules, optical adaptation, illumination and firm-/software*
- *Suitable for color detection and color measurement of reflectance, emission, transmission according to Tri-stimulus value function under DIN5033*
- *configurable in function, parameters and interface*
- *Integration in customer applications via API (DLL) and Hardware interfaces*

Main Board MTCS-ME1 (modEVA, modEVA(front))[1]



- µC-controlled signal detection
- Digitization with 12-Bit resolution
- Free memory space for calibration and correction data
- Led-through interrupt and IO terminal pins for integration into control sequences
- Voltage supply via USB (separate voltage supply connector for RS232 and I²C)
- Programmable voltage source for controlling the target illuminators
- Provided assembly versions – for interfaces (USB, I²C, RS232), plug modules

Plug Module modEVA-TOP



- Sensor module for modEVA main board for color measurement of reflective flat targets
- Illumination/sensor geometry 45°/0° to main board
- Incl. 4x white LED, sensor and signal amplifier

[1] Please note, there are 2 special Main Boards for TOP/ DARK and FRONT with different electrical connectors

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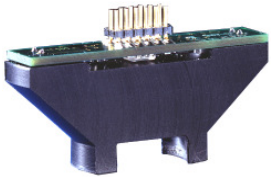
Plug Module modEVA-FRONT



- Sensor module for modEVA(front)[2] main board for color measurement of reflective flat targets
- Illumination/sensor geometry 45°/0° to main board
- Incl. 2x white LED, sensor and signal amplifier

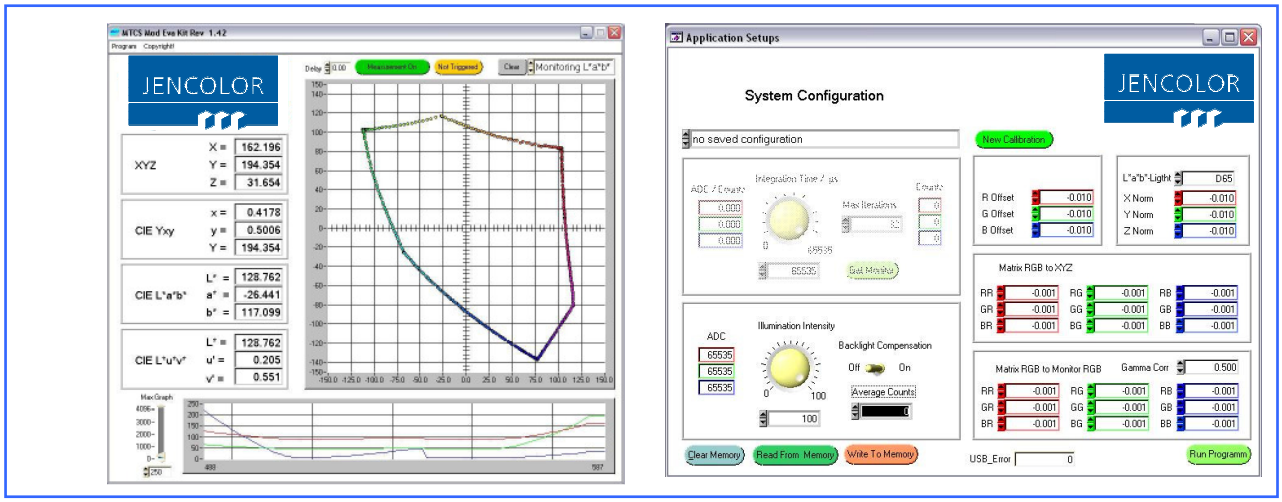
Plug Module modEVA-DARK (TIA, CCC)

- Sensor module for modEVA main board for color measurement of luminescent targets or reflective flat targets with external illumination
- TIA and current-to-charge converter configurations selectable
- Sensor geometry 0° (to main board), with gap optics 2° aperture angle

modEVA Software

- Averaging of multiple ADC access operations
- Measured value logging using ambient light compensation
- Smart control for signal integration (modEVA-DARK with current-to-charge conversion)
- Brightness control for the illuminator LEDs
- Option for calibration via a 3x3 correction matrix (Set of 24 targets)
- Management of application-specific settings and calibration data, storage in on-board memory
- API (DLL) and Driver for Interface (USB, RS232) available

modEVA Test Software – Measurement value display and configuration window



For more information please visit our web site at http://www.JENCOLOR.de
or contact our sales offices!

[2] modEVA(front) with same functionality to modEVA with alternative electrical connectors

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