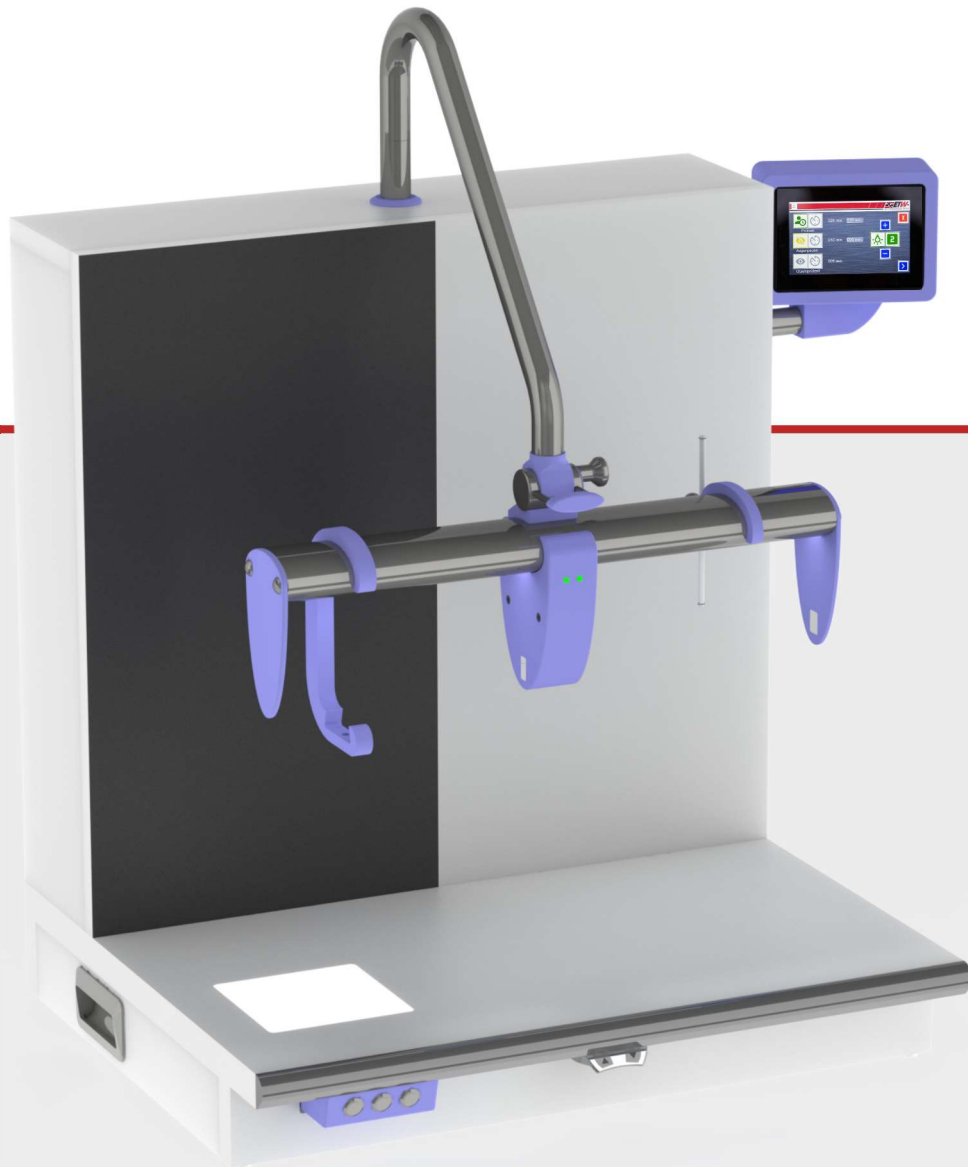# MODUcheck mini - the compact test station

The MODUcheck mini HMI LED test station system combines compact workstation design with innovative, homogeneous and energy-efficient lighting technology for visual individual assessment of the quality of liquid parenterals in terms of visible particles, foreign contamination or other defects.

Ergonomic LED test station system / classifier table for laboratory and pharmaceutical testing
according to the regulatory requirements for the visual inspection of parenterals.
(Annex 1 to the EU-GMP - Guideline / current edition of the European Pharmacopoeia).

ETW Wollmershäuser GmbH
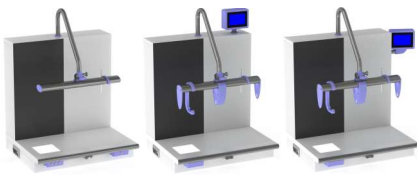
compact, **ergonomic** test station system
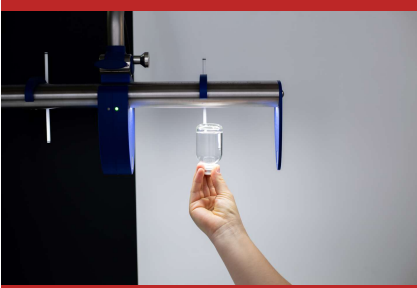
TPF

optical **quality** sinspection in the pharmaceutical field
of bottles, vials, cartridges, syringes, ampoules etc.

HMI
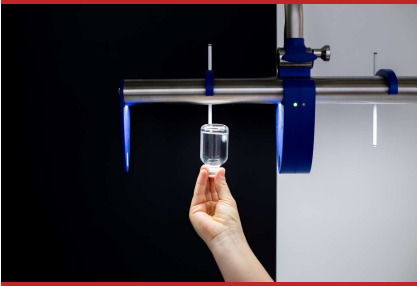
5" **touch panel** with user-defined, parameterizable test functions
(test and pause times, illumination parameters)

HMI
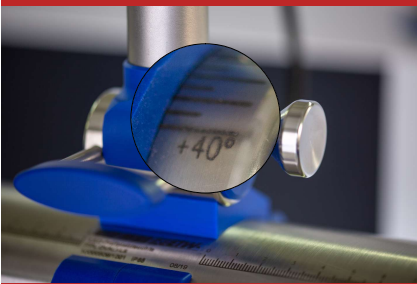
operator test time parameterizable

HMI

eye pause time parameterizable

HMI

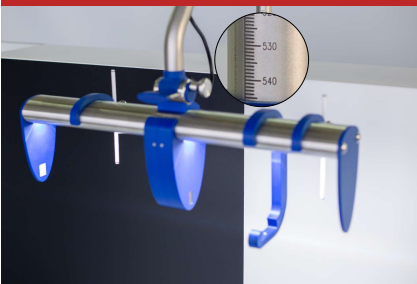**minimum test time** parameterizable

HMI

5 **brightness levels** adjustable

HMI

brightness control **calibratable**

PPL

PPL LED test station illumination, **diffuse**
angle adjustable ± 40° with **scale**

PPL

LED test station lighting 250 mm electrically height adjustable
with **reproducible** scale
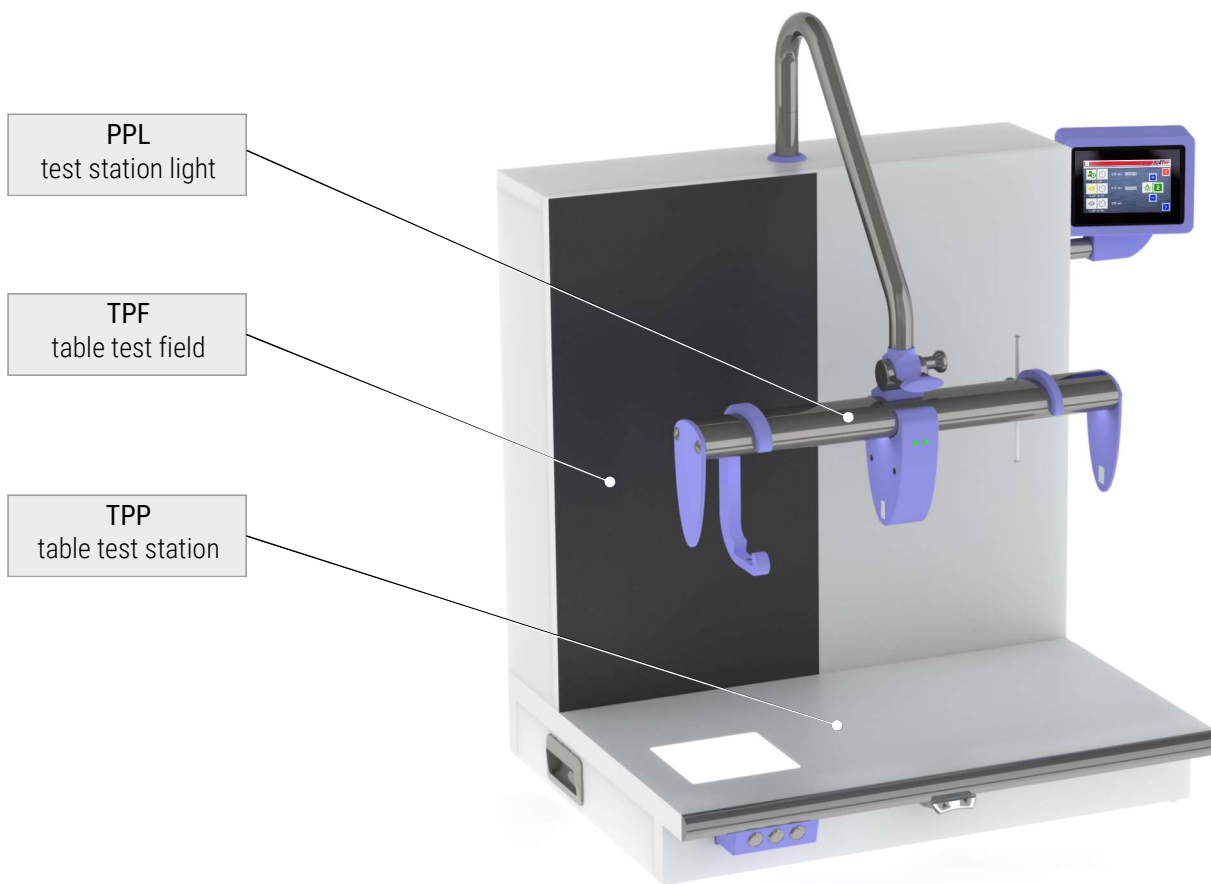
PPL

LS **light barrier** module for object detection
in the test field with optical signal

PPL

LFR lightfield grid, **variably** adjustable

PPL

holder for **Lux probe**

IL InspectLight - **LED lightfield**, flush-mounted in tabletop
different sizes (e.g. 100 x 100 mm / 150 x 150 mm)

DasTechnik**Team.**

PPL
test station light

TPF
table test field

TPP
table test station

MODULE test station light PPL

PPL-500 diffuse	lightcolour	white 6500K	LED-CRI: >90 Ra	
	lightfield	500 x 24 mm		
	illuminance ≥ (lx)	11.000	4.500	2.800
	test distance in mm	100	200	300
	application for test objects from	plastic - stained glass - clear glass		
	height adjustment range in mm	250 (distance table top - light emission: 300 mm - 550 mm), scale		
	angle adjustment	+/- 40°, scale		
	housing material FDA FDA	stainless steel / POM C blue / POM white		

MODULE table-top test panel TPF

HMI	5" touch panel with user-defined, parameterisable test functions	
contrast wall	black - white (matt)	650 x 600 mm

MODULE table-top test station TPP

table size	MODUcheck mini	650 x 365 mm	
table top colour	WS white	LG light grey	
IL InspectLight LED lightfield diffuse	lightcolour	weiß 6500K	
	lightfield	100 x 100 mm	150 x 150 mm
	Illuminance (lx)	4700 lx (bei 100 mm distance)	9000 lx (bei 100 mm distance)

electrical values	230V / 50Hz / ca. 75W

Das **MODU**check mini system

holder for Lux probe (accessories)

LFR lightfield grid, variable adjustable (accessoire)

HMIR 5" touch panel with user-definable, parameterisable test functions

PPL-LS1 LED test station light
(incl. light barrier module 1-beam red light)

TPF table test field

TPP table test station

IL InspectLight LED-light field

325   325

705   600

550   365

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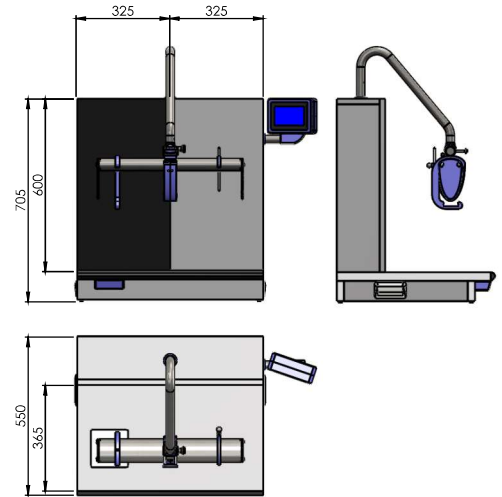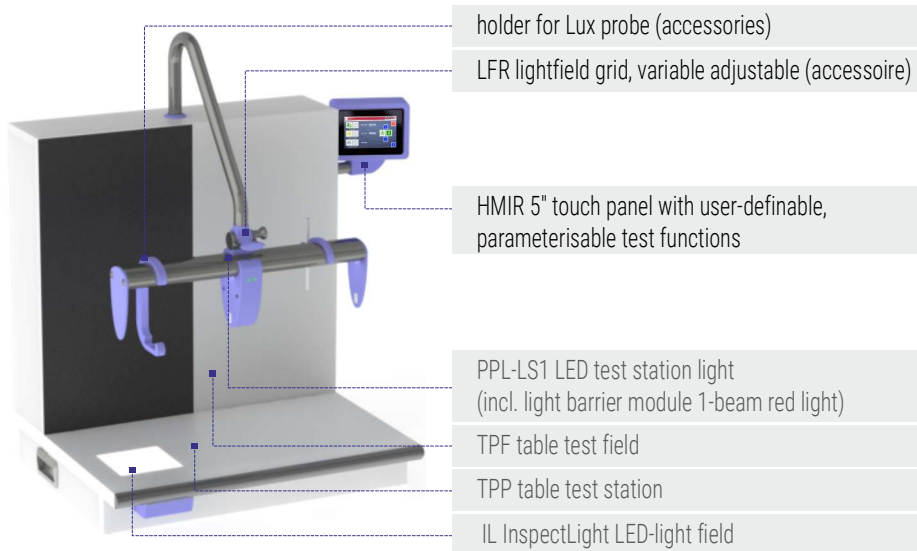
model configurator:

MODUcheck mini - ☐☐ - ☐☐☐ - **LS**☐ - ☐☐ - **IL**☐☐☐

TPF table test field **SW** (test field left black)   **WS** (test field left white)

HMI 5" touch panel: HMI**R** (right)   HMI**O** (top)

without HMI 5" touch panel, with lighting controller **BCE**

PPL LED test site lightning:
LS**0** without light barrier module
LS**1** light barrier module 1-beam (red light)
LS**E** light barrier grid Infrared (non-visible light)

colour variants test table: **WS** (white)   **LG** (light grey)   **VA** (stainless steel)

IL InspectLight LED light field: **100** x 100 mm   **150** x 150 mm

standard version: TEXT red


model example 1: MODUcheck mini-SW-BCE-LS0-WS-IL100
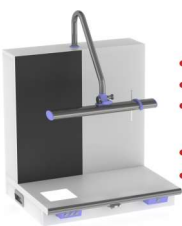
MODUcheck mini
• TPF table test panel **SW** black-white
• **BCE** lighting controller
• PPL LED test site lightning **LS0**
  (without light barrier module)
• test table colour (table top) **WS** white
• **IL100** inspectLight
  LED-lightfield 100 x 100 mm

model example 2: MODUcheck mini-SW-HMIR-LS1-WS-IL100

MODUcheck mini
• TPF table test panel **SW** black-white
• **HMIR** 5" touch panel right
• PPL LED test station light **LS1**
  (light barrier module 1-beam red light)
• test table colour (table top) **WS** white
• **IL100** inspectLight
  LED lightfield 100 x 100 mm

model example 3: MODUcheck mini-SW-HMIO-LSE-WS-IL100
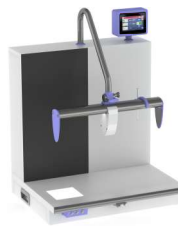
MODUcheck mini
• TPF table test panel **SW** black-white
• **HMIO** 5" touch panel top
• PPL LED test station light **LSE**
  (Light barrier grid infrared,
  non-visible light)
• test table colour (table top) **WS** white
• **IL100** inspectLight
  LED lightfield 100 x 100 mm

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