

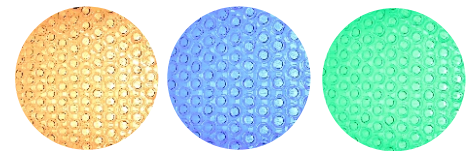
## TKS Tray-Control-System

Ergonomic LED test station system for laboratory and pharmaceutical testing



The ergonomic TKS tray inspection system is an LED lighting system with a mounting frame for trays/nests for optical quality inspection in the pharmaceutical sector.

The homogeneous LED lightfield is optimally designed for the visual inspection of syringes, vials, ampoules or cartridges.



compact, pharmacare - Made in Germany

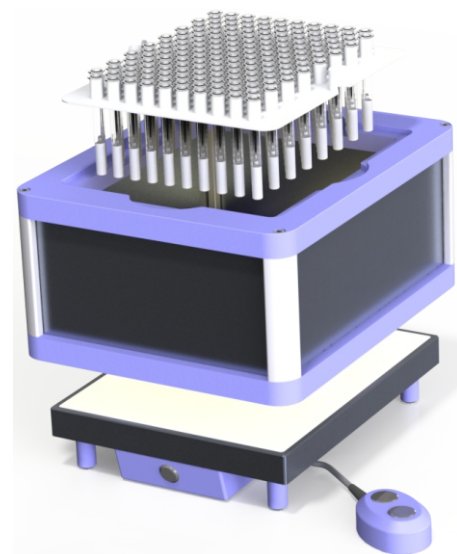
### brief description

TKS tray inspection system for various visual inspection tasks with uniform, homogeneous light over the entire illuminated surface. Designed and manufactured to be user-friendly, ergonomic and cleaning-optimised.

For visual inspection a various of non-stationary objects in the tray, like syringes, vials, ampoules, cartridges, etc., can be placed on this LED inspection system. Even the smallest defects of the inspected objects are easily and reliably detected.

Crack detection - position check - stopper presence - completeness  
 Because the illumination and the tray control frame are optimally matched to each other, ergonomic inspection is possible.

The selectable lightcolour (RGB) and the adjustable brightness allow an individual, optimal system setting.



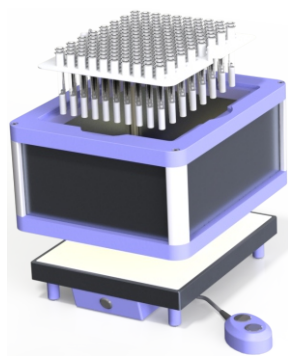
## features

- housing material lighting IL: **aluminium** anodised natural
- lightfield disc: acrylic glass (PMMA) diffuse (impact and scratch resistant)
- optimised lightfield with bright light emission
- brightness control of the dimming between 20 - 100% (20% steps)
- regulation by lighting controller
- homogeneous lightfield, energy-saving design, generates little heat and increases the life of the light source
- lightcolours: RGB (red-green-blue-yellow-white)
- colour channel and brightness adjustable and reproducible via parameterisation mouse Pm2
- parameterised values remain stored and can only be changed with the parameterisation mouse
- perfectly suited for continuous operation
- **not** intended for operation in potentially explosive atmospheres

## technical data

supply voltage:	24VDC (+/-10%) / power supply 230VAC
LED colour temperature white:	6500K
operating temperature:	+ 10°C bis + 40°C
storage temperature:	-5°C bis + 50°C
relative humidity:	30% - 70% non condensing
protection class:	IP65

UL-Konform



test tray (e.g. syringe nest)

TKR-2025

IL-200-250-AL

lighting controller BC

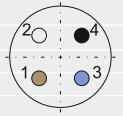
parameterising mouse Pm2

## electrical connections

version with controller

sensor plug M12 / 4-pole

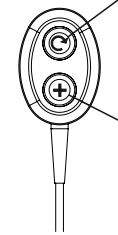
PIN	colour	description
1	brown	supply voltage 24VDC
2	white	N.C.
3	blue	0V GND
4	black	N.C.



## lighting controller BC

## parameterising mouse PM

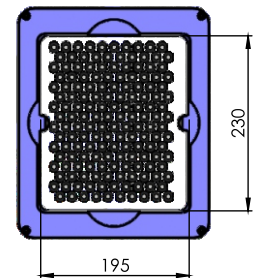
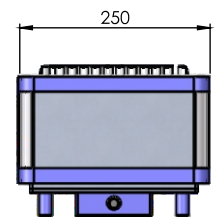
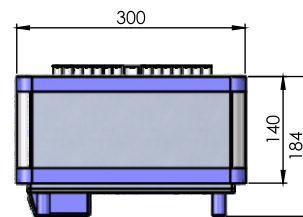
lighting ON/OFF



colour channel selection  
red-green-blue-yellow-white

brightness level 20-100%  
5 levels selectable  
after connection with the PM, the  
selected brightness level flashes  
on the BC (ON/OFF)

## dimensions



model	Tray-size mm	lightning	lightfield A x B mm	lightcolours	housing material	tray-control-frame	parameterisation mouse PM	housing material
TKS-2025	195 x 230	IL-200-250-AL	200 x 250	red green blue yellow white	standard aluminium anodised	TKR-2025	PM2-050	aluminium anodised  POM C-blue

subject to change without notice. Further model variants and special solutions on request.

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**DasTechnikTeam.**