

FAG FLEX4PRO DATASHEET COMPARISON

FAG FLEX4PRO INSTALLATION REQUIREMENTS

- Windows 10, Windows 11 – 32bit or 64bit
- Screen resolution: 1280 x 780 or higher recommended
- 2 x USB 2.0 High Power (5V-500mA) (or USB3.x)
- Mouse with 3 keys and free usb port for the mouse
- Free USB port for optional RELIX4

FLEX3PRO TECHNICAL DATA

Parameter	Value	FLEX3PRO
Viewing area approx..	2.2mm x 1.8mm	2.2mm x 1.8mm
Resolution top view approx..	14.500ppi	14.500ppi
Resolution 3D View approx..	22.000ppi	22.000ppi
Focus Levels	0µm, -125µm, -250µm, -375µm	0µm
Focus depth approx.	±100µm	±100µm
Illumination	White LED, RGB Led, IR Led	White LED, RGB Led
Transmission illumination	White LED high Contrast White LED gray level details	White LED high Contrast
Camera	BW / 1,3 MPixel	BW / 1,3 MPixel
Communication	2 x USB 2.0	2 x USB 2.0
Power Supply	USB 2.0 high power	USB 2.0 high power
Accuracy	+/- 0.005mm	+/- 0.005mm
Repeatability	+/- 0.2%	+/- 0.2%
Measurement time typ.	1 – 2 seconds	1 – 2 seconds
Measurement Range Dot Area	0.2% -- 99%	0.2% -- 99%
Measurement Range Screen Ruling	10 LPI .. 380 LPI	10 LPI .. 380 LPI
Size	38cm * 21cm * 15cm	38cm * 21cm * 15cm
Weight	4.5kg	4.5kg
Calibration / Verification	Dot Size Target included Density Target included	Dot Size Target included
In House Recalibration	possible	
In House Firmware upgrade	possible	

FLEX4PRO FUNCTIONS

Function description	FLEX4PRO	FLEX3PRO
HARDWARE Self containing box including transmission light source Removable Sensor head		
MEASUREMENT FUNCTIONS		
Transmission Mode		
• Dot Area%	0.2%..99%	0.2%..99%
• Screen ruling	25L/cm.. 150 L/cm 10LPI..380LPI	25L/cm.. 150 L/cm 10LPI..380LPI
• Dot Diameter	µm / mil / Inch	µm / mil / Inch
• Dot Surface Area	µm ² / mil ²	µm ² / mil ²
• Dot Perimeter	µm / mil / Inch	µm / mil / Inch
• Edge Factor	100%..500%	100%..500%
• Stain Density	0..1.2	0..1.2
• Dot area Density	0..2	-
• Line Width	µm / mil / Inch	µm / mil / Inch
Reflection Mode		
• Dot Area%	0.2%..99%	0.2%..99%
• Screen ruling	25L/cm.. 150 L/cm 10LPI..380LPI	25L/cm.. 150 L/cm 10LPI..380LPI
• Dot Diameter	µm / mil / Inch	µm / mil / Inch
• Dot Surface Area	µm ² / mil ²	µm ² / mil ²
• Dot Perimeter	µm / mil / Inch	µm / mil / Inch
• Edge Factor	100%..500%	100%..500%
• Line Width	µm / mil / Inch	µm / mil / Inch
Dot Shape Mode		
• Dot Structure Index	0..100	0..100

• Shoulder Angle	0°..90°	0°..90°
• Dot Diameter 3 levels	µm / mil / Inch	µm / mil / Inch
• Dot height	µm / mil	µm / mil
• Dot Inter-Space (dot bridging)	µm/ µm ²	-
• Dot Area	0.2%..99%	-
• Screen ruling	25L/cm.. 150 L/cm 10LPI..380LPI	-
Print Mode		
• Dot Area%	0.2%..99%	0.2%..99%
• Screen ruling	25L/cm.. 150 L/cm 10LPI..380LPI	25L/cm.. 150 L/cm 10LPI..380LPI
• Dot Diameter	µm / mil / Inch	µm / mil / Inch
• Dot Surface Area	µm ² / mil ²	µm ² / mil ²
• Dot Perimeter	µm / mil / Inch	µm / mil / Inch
• Edge Factor	100%..500%	100%..500%
• Line Width	µm / mil / Inch	µm / mil / Inch
• Dot Void Factor	0..100%	0..100%
• Slur Factor	100%..500%	100%..500%
• Color separation	CMYK	CMY
• Mottle	0%..100%	0%..100%
• Coverage	0%..100%	0%..100%
• Iso Graininess	0%..100%	0%..100%
REPORTS AND STATISTICS		
• Customized Logo and Header Text in PDF reports	Standard	Standard
• Laser Quality Report	FLEYE4plus	FLEYEplus
• Plate Quality Report	FLEYE4plus	FLEYEplus
• Production Log	FLEYE4plus	FLEYEplus
• Statistics / Tonal curves	standard	standard
• Micro QRCode reading	FLEYE4plus	FLEYEplus
OTHER		
• Customized Plate types	FLEYE4plus	FLEYEplus
• Relief measurement	RELIX4	RELIX-P
• Floor measurement	RELIX4	-
• Plate thickness measurement	RELIX4	RELIX-P

Verify and Calibration		
• Dot Size Verification	FLEXTARGET	FLEXTARGET
• Dot Size and PPI calibration	FLEXTARGET	-
• Stain Density Verification	DENS4TARGET	-
• Stain Density Calibration	DENS4TARGET	-