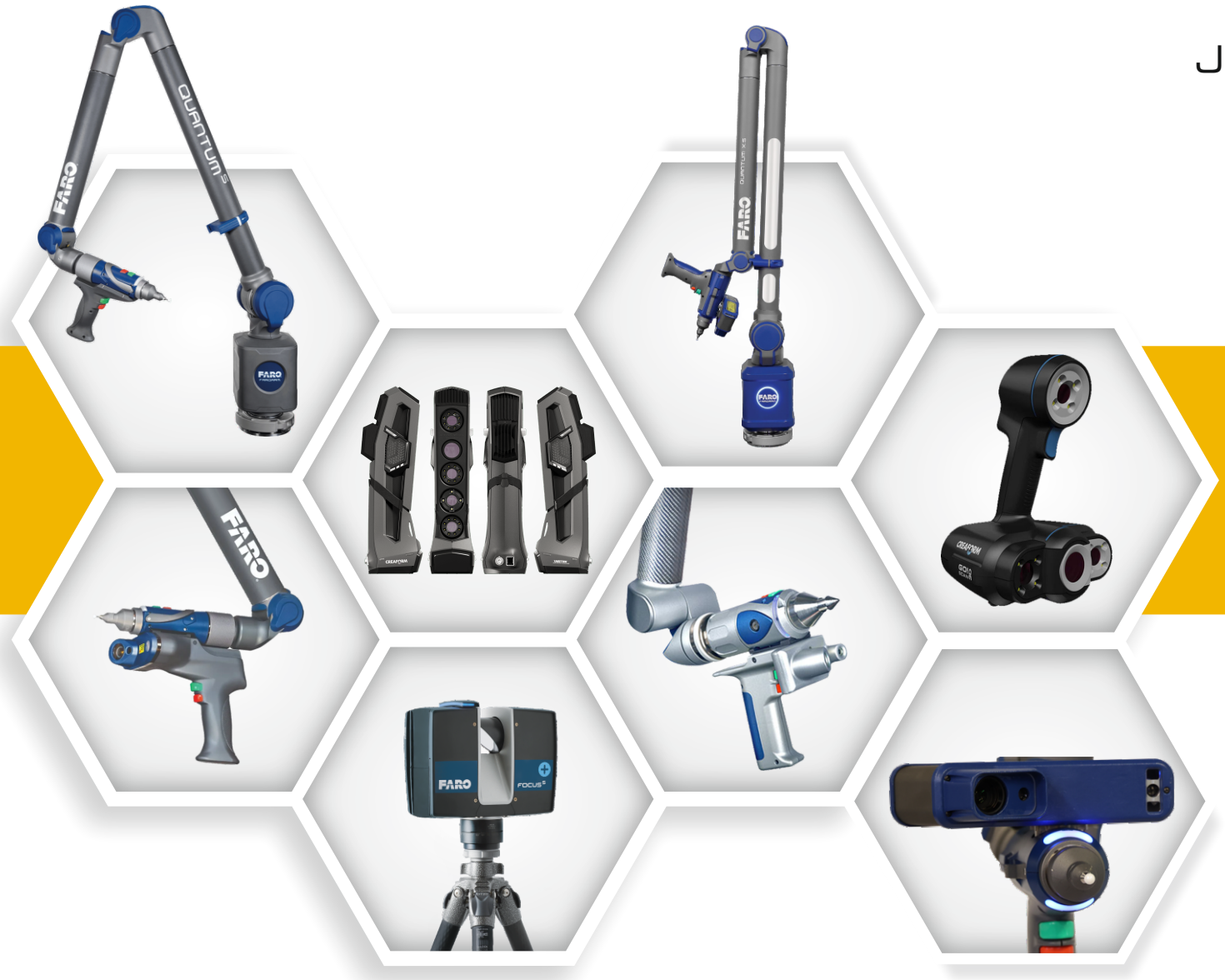
JET 3DSCAN

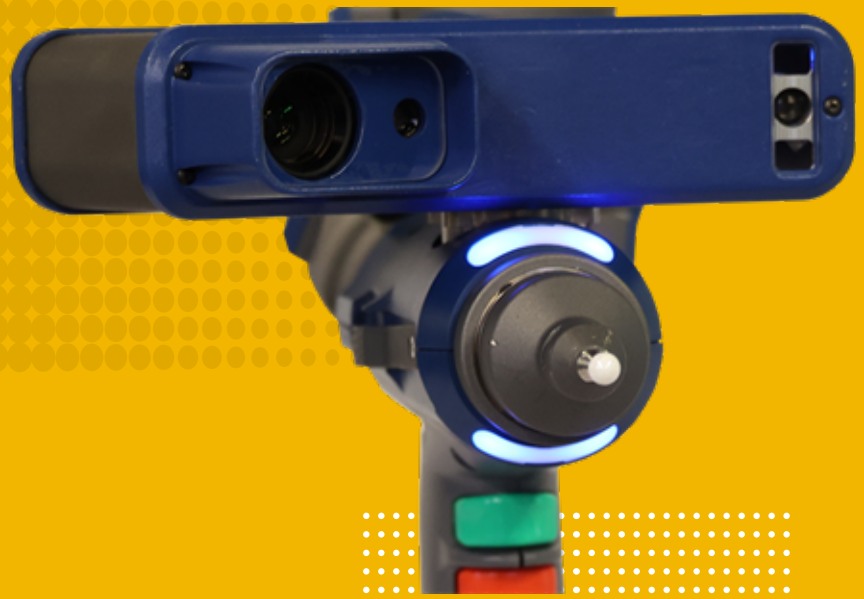


NEW GENERATION OF

3D SENSING TECHNOLOGY

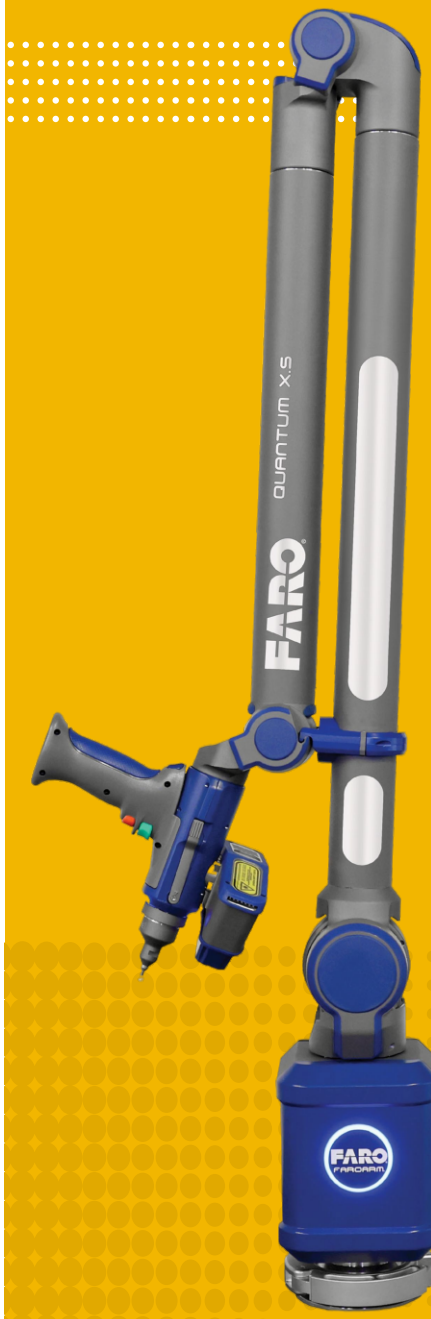
www.jet3dscan.com

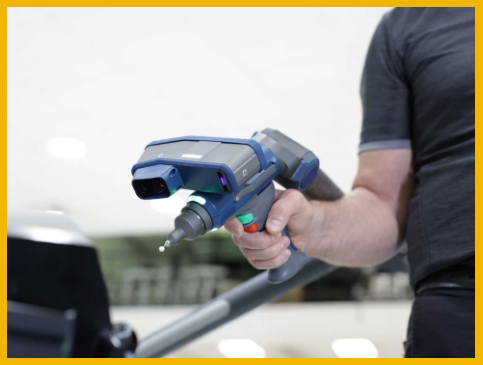
FARO BLU MAX XE LLP

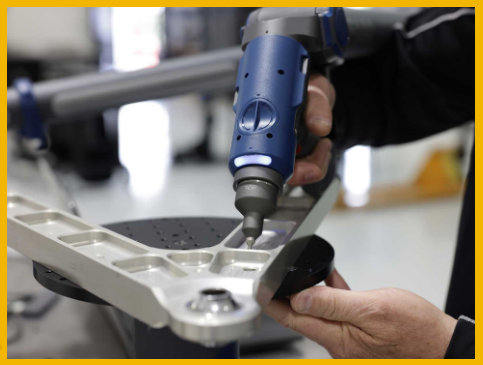


Laser Colur/class	Blue /450 nm/635 nm, Class 2
MPE	2.55mW/cm2
NHZ	0.0m
NOHD	2.41m
Power Output	100-240 VAC, 47/63 Hz
Wave Length	450 nm
Max Scan Rate	[1] 200 Hz [2] 200 fps × 2,000 pts = 400k pts/sec
Accuracy	30 µm (0.0012 in)
Repeatability	48 µm
Stand-off	105mm
Depth of field	110mm
Effective scan width	[1] Near field 80mm [2] Far field 150mm
Certifications	Meets OSHA requirements, NRTL TÜV SÜD C-US Listed, Complies with Electronic Code of Federal Regulations 47 CFR PART 15, 17 CFR Parts 240 and 249b – Conflict Material, 21 CFR 1040 Performance standards For Light-Emitting Products, and 10 CFR Part 430 – Department of Energy; Energy Conservation for External Power Supplies.
Weight	369.7 g
Extreme Temperature Cycling	-20°C to 60°C
Equipment Calibration	Yearly
Output formats	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf

FARO QUANTUM X.M 2.5m

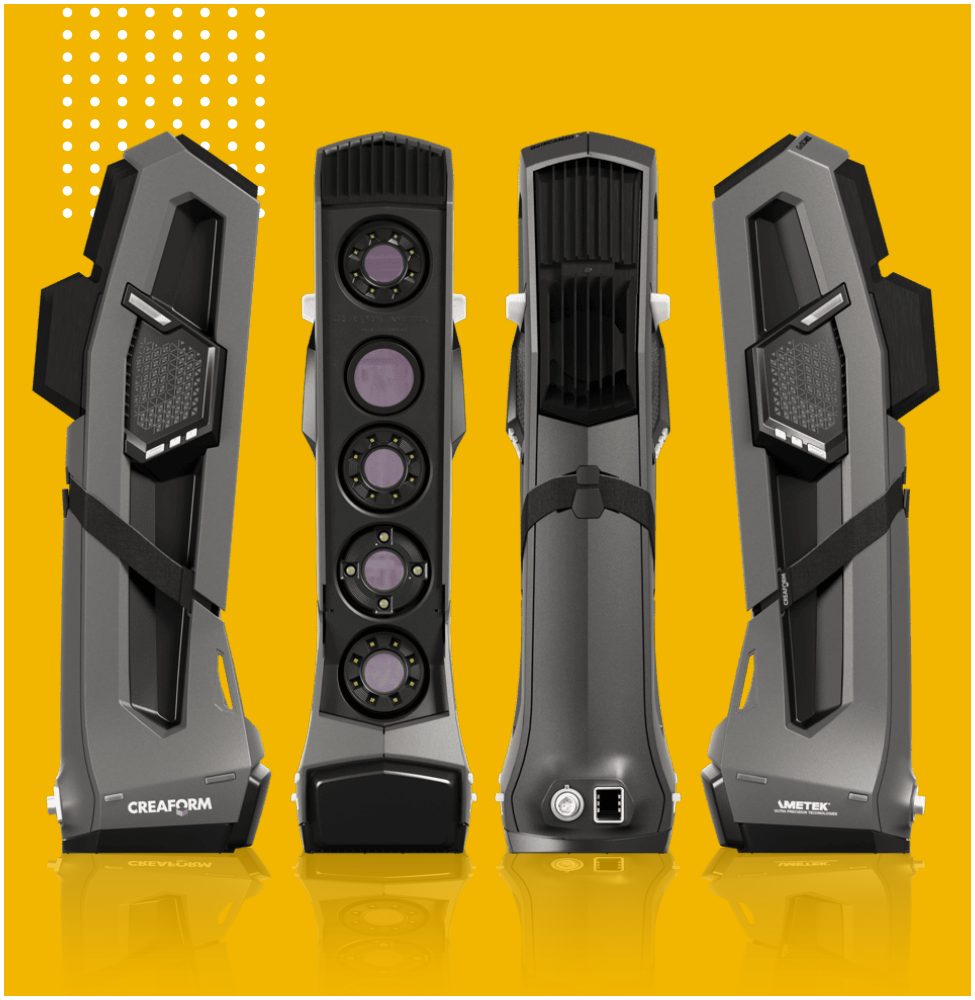




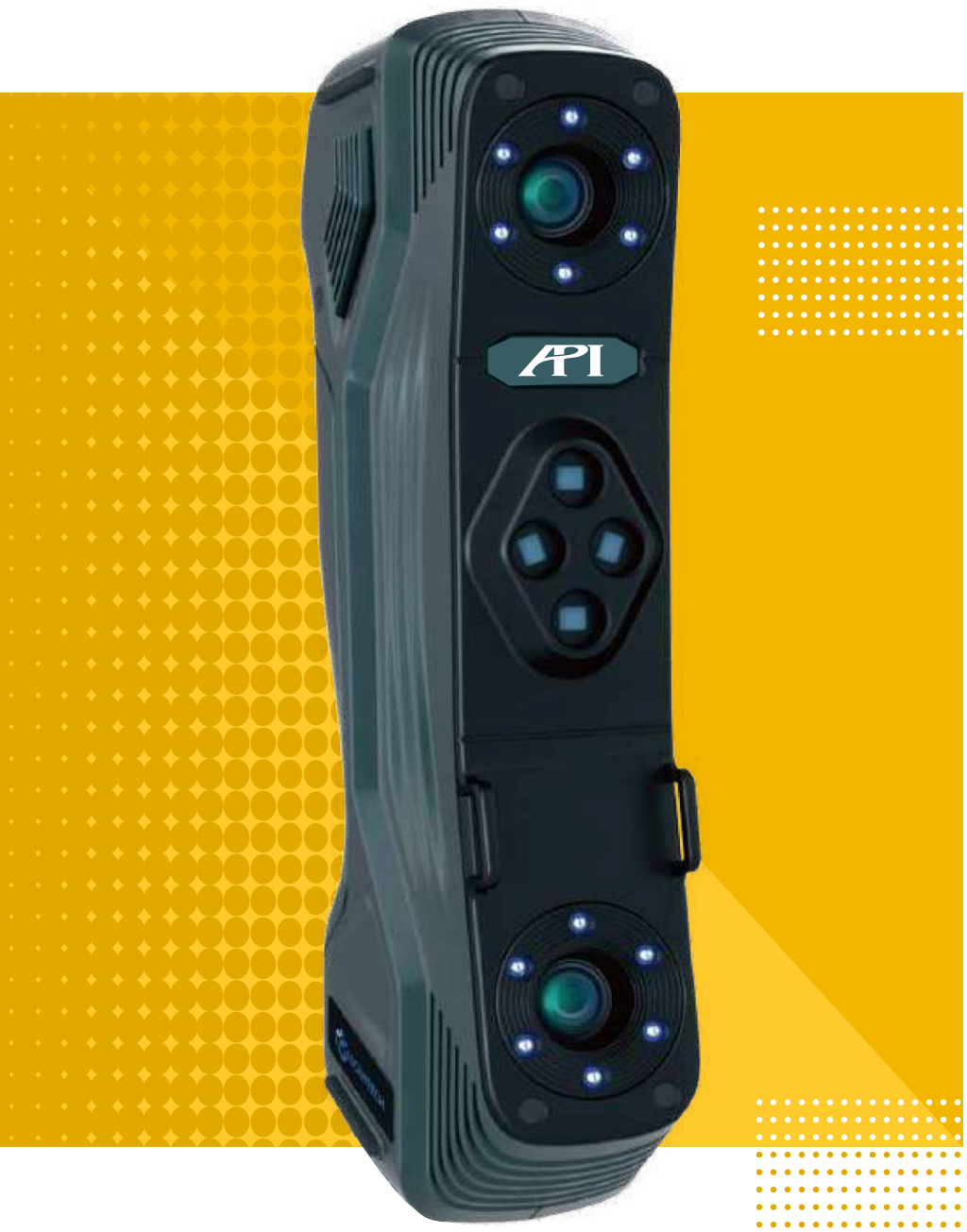


S PAT 1 (6 axis)	0.026 mm
E UNI 2 (6 axis)	0.034 mm
P SIZE 3 (6 axis)	0.015 mm
P FORM 4 (6 axis)	0.030 mm
L DIA [5] (6 axis)	0.045 mm
Operating Temperature Range	10° to 40° C
Temperature rate	3°/5 min
Operating Humidity Range	upto 95%, non - condensing
Certifications	Meets OSHA requirements, NRTL TÜV SÜD C-US Listed, Complies with Electronic Code of Federal Regulations 47 CFR PART 15, 17 CFR Parts 240 and 249b – Conflict Material, 21 CFR 1040 Performance standards For Light-Emitting Products, and 10 CFR Part 430 – Department of Energy; Energy Conservation for External Power Supplies.
Stand-off Distance	Contact type Mesurement
Part Size Range	2.5 m spherical diameter
Software	Polyworks Inspector
Weigth with out case	4.3 kg
Weight with case	30 kg
Output formats	.iges, .igs
Equipment Calibration	Yearly
Extreme Temperature Cycling	-20°C to 60°C

CREAFORM
GO SCAN SPARK

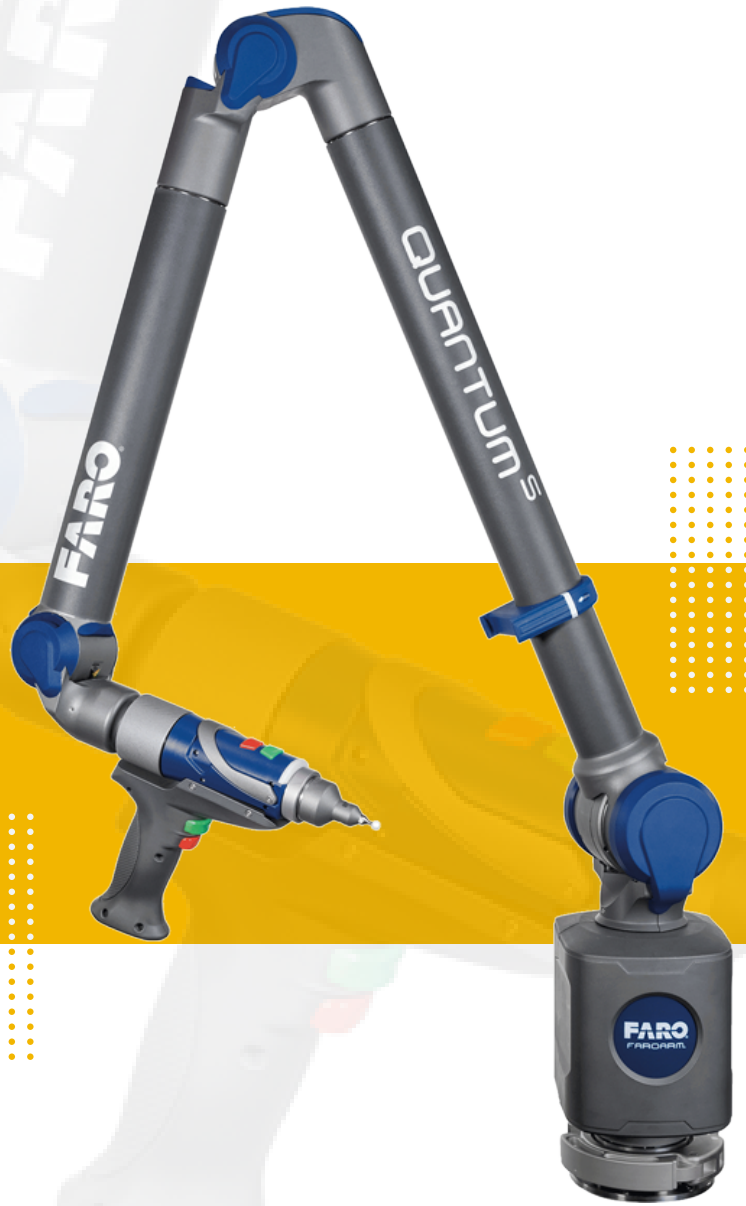


ACCURACY	UP TO 0.050 mm
Volumetric Accuracy	0.050 mm + 0.150mm/m
Measurement Resolution	0.100 mm
Mesh Resolution	0.200 mm
Measurement Rate	1500000 measurements/s
Light Source	Structured White light (99 strips)
Positioning Methods	Geometry and/or color and/or targets
Scanning Area	390 x 390 mm
Stand-off Distance	400 mm
Depth of field	450 mm
Part Size Range	0.1 to 5 m
Texture Resolution	50 to 200 DPI
Texture Colors	24 bits
Software	VX Elements
Output formats	.dae, .fbx, .ma, .obj, .ply, .stl, .txt,. wrl, .x3d, .x3dz, .zpr, .3mf
Weight	1.25 kg
Operating Temperature Range	5-40 ° C
Operating Humidity Range	10-90 %
Certifications	EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), compatible with rechargeable batteries (when applicable), IP50, WEEE
Equipment Calibration	Yearly



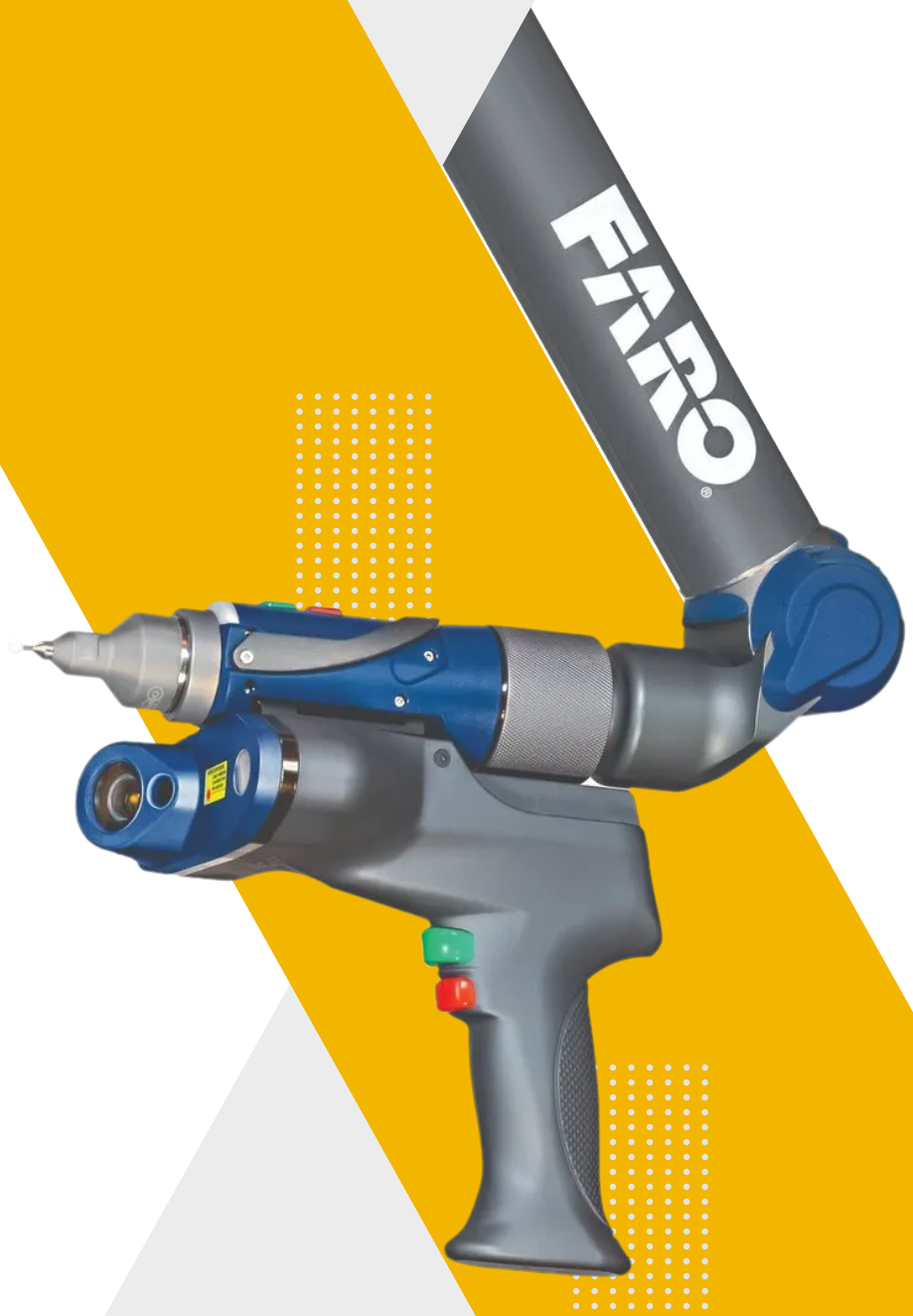
API I SCAN LITE 42

ACCURACY	UP TO 0.020 mm
Volumetric Accuracy	0.015 mm + 0.035mm/m
Measurement Resolution	0.020 mm
Mesh Resolution	0.020 mm
Measurement Rate	28,00,000 measurements/s
Light Source	Ultra Fast Scanning with 17 Blue Cross Lasers
Positioning Methods	Positioning targets
Scanning Area	700 x 600 mm
Stand-off Distance	300 mm
Depth of field	550 mm
Part Size Range	0.01 to 5 m
Texture Resolution	N/A
Texture Colors	N/A
Software	ISCAN VIEWER
Output formats	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf
Weight	570 gm
Operating Temperature Range	0-40 ° C
Operating Humidity Range	10-90 %
Certifications	"[1] ISO 17025 accredited: Based on VDI/VDE 2634 Part 3 standard and JJF 1951 specification, probing error (size) (PS) performance is evaluated.
	[2] ISO 17025 accredited: Based on VDI/VDE 2634 Part3 standard and JJF 1951 specification, sphere spacing error (SD) performance is evaluated."
Equipment Calibration	Yearly



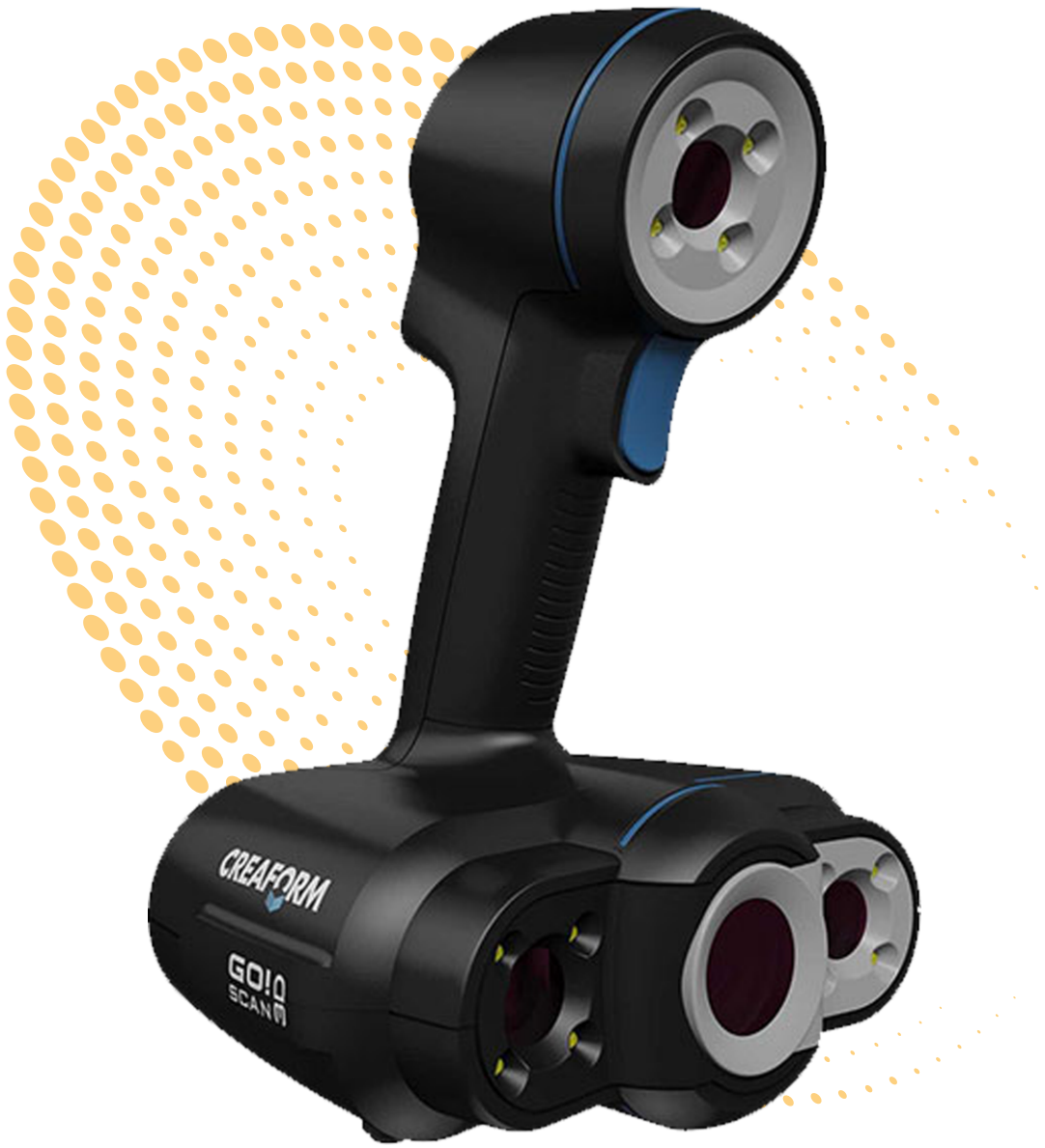
FARO QUANTUM M 2.5m

S PAT 1 (6 axis)	0.023 mm
E UNI 2 (6 axis)	0.034 mm
P SIZE 3 (6 axis)	0.015 mm
P FORM 4 (6 axis)	0.030 mm
L DIA (6 axis)	0.045 mm
Operating Temperature Range	10° to 40° C
Temperature rate	3°/5 min
Operating Humidity Range	upto 95%, non - condensing
Certifications	Meets OSHA requirements, NRTL TÜV SÜD C-US Listed, Complies with Electronic Code of Federal Regulations 47 CFR PART 15, 17 CFR Parts 240 and 249b – Conflict Material, 21 CFR 1040 Performance standards For Light-Emitting Products, and 10 CFR Part 430 – Department of Energy; Energy Conservation for External Power Supplies.
Stand-off Distance	Contact type Mesurement
Part Size Range	2.5 m spherical diameter
Software	Polyworks Inspector
Weigth with out case	9 kg
Weight with case	30 kg
Output formats	.iges, .igs
Equipment Calibration	Yearly
Extreme Temperature Cycling	-20°C to 60°C



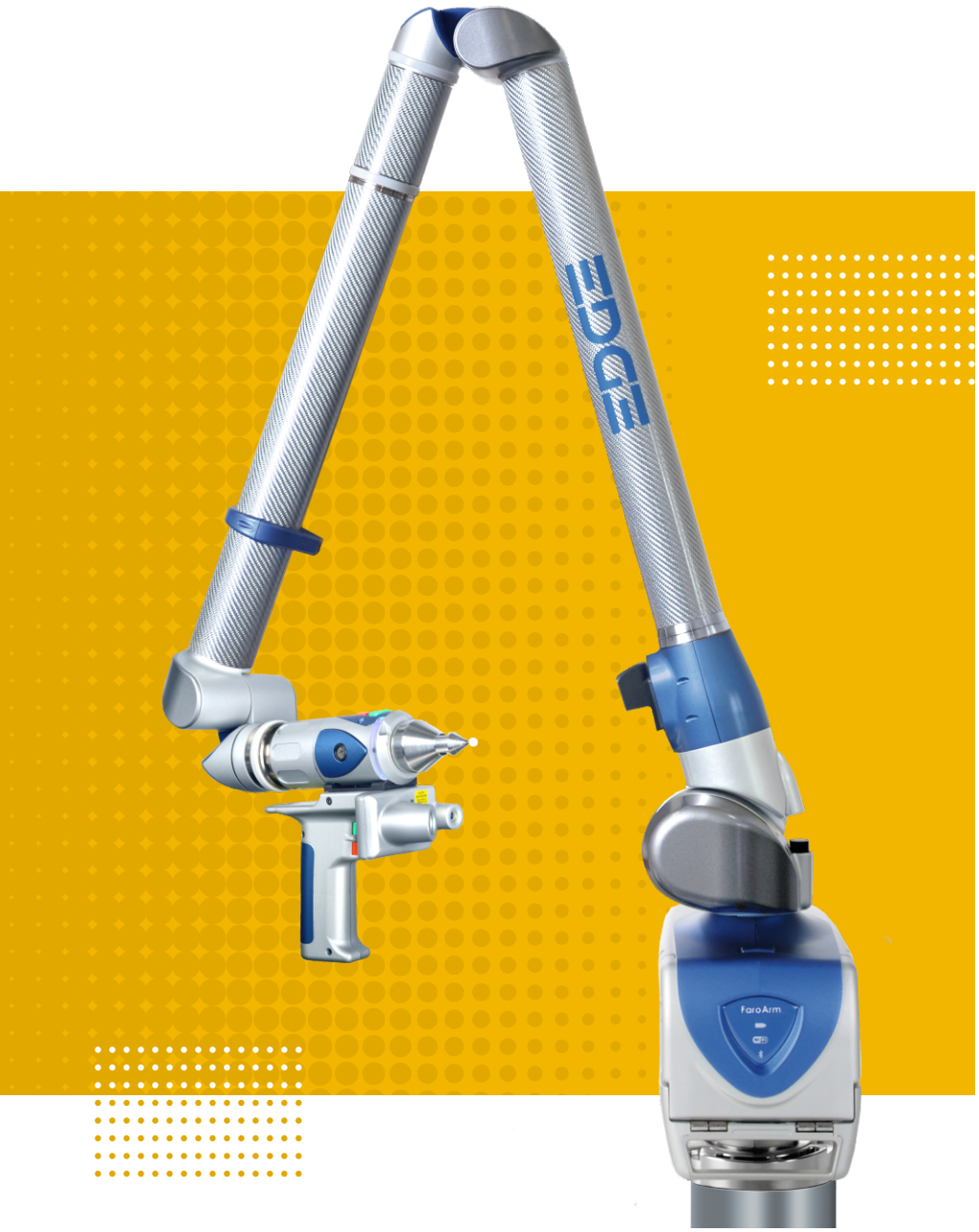
FARO
BLU HD LLP

Laser Colur/class	Blue / Class II
MPE	2.55mW/cm2
NHZ	0.0m
NOHD	2.41m
Power Output	<1mW
Wave Length	450 nm
Max Scan Rate	[1] 300 frames/second [2] 300fps x 2,000points/ line = 600,000points/sec
Accuracy	±25µm
Repeatability	25µm, 2σ
Stand-off	115mm
Depth of field	115mm
Effective scan width	[1] Near field 80mm [2] Far field 150mm
Certifications	Meets OSHA requirements, NRTL TÜV SÜD C-US Listed, Complies with Electronic Code of Federal Regulations 47 CFR PART 15, 17 CFR Parts 240 and 249b – Conflict Material, 21 CFR 1040 Performance standards For Light-Emitting Products, and 10 CFR Part 430 – Department of Energy; Energy Conservation for External Power Supplies.
Weight	485 g
Extreme Temperature Cycling	-20°C to 60°C
Equipment Calibration	Yearly
Output formats	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf



CREAFORM
GO SCAN 50

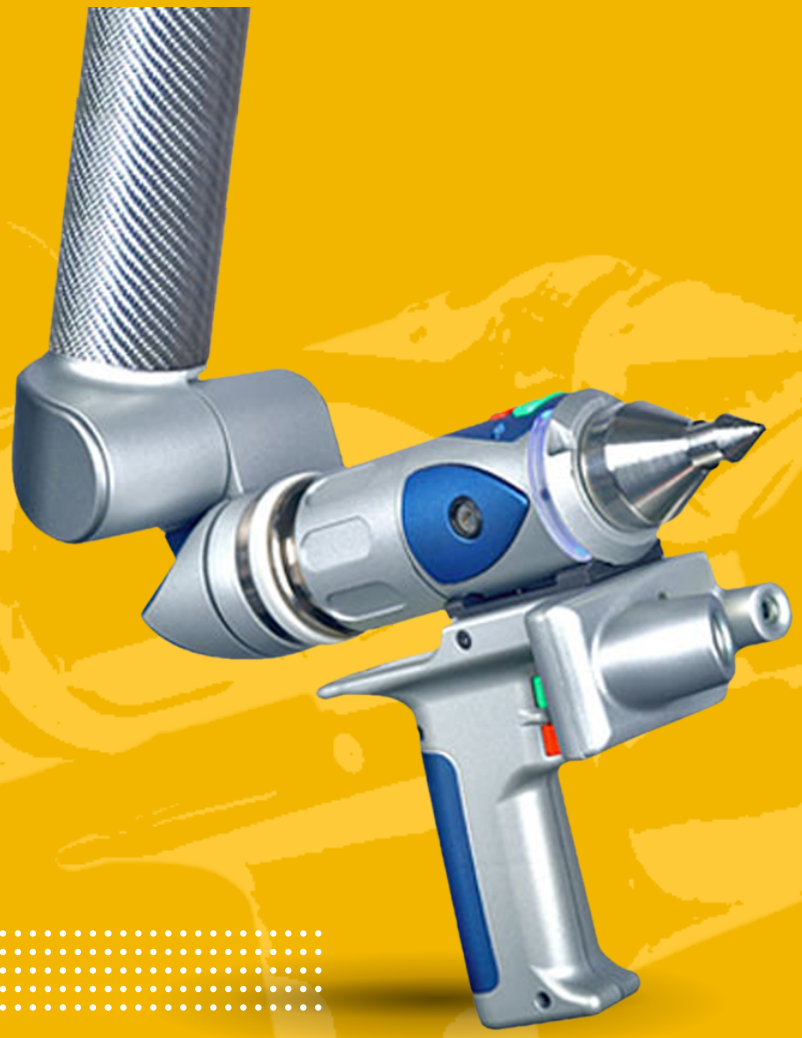
ACCURACY	Up to 0.10 mm
Volumetric Accuracy	0.300 mm/m
Measurement Resolution	0.5 mm
Mesh Resolution	0.5 mm
Measurement Rate	550000 measurements/s
Light Source	White light (LED)
Positioning Methods	Geometry and/or color and/or targets
Scanning Area	380mm x 380 mm
Stand-off Distance	400 mm
Depth of field	250 mm
Part Size Range	0.3 m to 3.0 m
Texture Resolution	50 to 150 DPI
Texture Colors	24 BITS
Software	VX ELEMENTS
Output formats	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl, .x3d, .x3dz, .zpr, .3mf
Weight	1.2 kg
Operating Temperature Range	5-40 ° C
Operating Humidity Range	10-90 %
Certifications	EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), compatible with rechargeable batteries (when applicable), IP50, WEEE
Equipment Calibration	Yearly



FARO EDGE ARM 2.7m

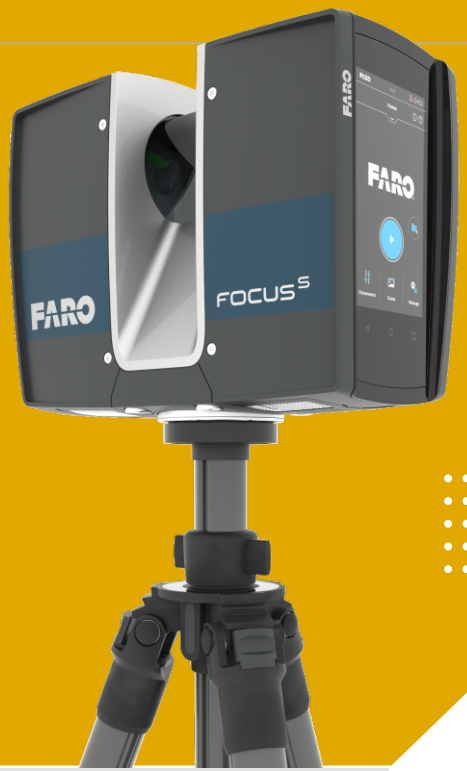
Repeatability1	0.029mm
Accuracy2	±0.041mm
Accuracy3 (8 axis)	±0.041mm
P FORM 4 (6 axis)	0.030 mm
L DIA (6 axis)	0.045 mm
Operating Temperature Range	10° to 40° C
Temperature rate	13°/5 min
Operating Humidity Range	upto 95%, non - condensing
Certifications	Meets OSHA requirements, NRTL Listed (USA and Canada), Complies with 47 CFR § 15 and 21 CFR § 1040.10. Complies with the following EC Directives: 2014/30/EU - EMC; 1999/5/EC - R&TTE; 2011/65/EU - RoHS2; 2012/19/EU - WEEE. 2006/66/EC - Batteries and Accumulators; 2009/125/ EC - Ecodesign requirement.
Stand-off Distance	Contact type Mesurement
Part Size Range	2.7 m spherical diameter
Software	Polyworks Inspector
Weigth with out case	11 kg
Weight with case	22 kg
Output formats	.iges, .igs
Equipment Calibration	Yearly
Extreme Temperature Cycling	-20°C to 60°C

FARO V5 LLP



Laser Colur/class	Red / Class II M
MPE	2.55mW/cm2
NHZ	0.0m
NOHD	2.41m
Power Output	<1mW
Wave Length	660 nm
Max Scan Rate	[1] 60 frames/second [2] 60fps x 752points/line = 45120 points/sec
Accuracy	±40µm
Repeatability	40µm, 2σ
Stand-off	115mm
Depth of field	115mm
Effective scan width	[1] Near field 80mm [2] Far field 150mm
Certifications	Meets OSHA requirements, NRTL TÜV SÜD C-US Listed, Complies with Electronic Code of Federal Regulations 47 CFR PART 15, 17 CFR Parts 240 and 249b – Conflict Material, 21 CFR 1040 Performance standards For Light-Emitting Products, and 10 CFR Part 430 – Department of Energy; Energy Conservation for External Power Supplies.
Weight	485 g
Extreme Temperature Cycling	-20°C to 60°C
Equipment Calibration	Yearly
Output formats	.dae, .fbx, .ma, .obj, .ply, .stl, .txt, .wrl,. x3d, .x3dz, .zpr, .3mf

FARO FOCUS S350



RANGE	
Unambiguity interval	Upto 350 m
	614 m for up to 0.5 MPts/s
	307 m at 1 MPts/sec
	153 m at 2 Mpts/sec

RANGE NOISE	
White, 90% Reflectivity	0.1 mm @ 10 m, 0.2 mm @ 25 m
Dark-grey, 10% Reflectivity	0.3 mm @ 10 m, 0.4 mm @ 25 m
Black, 2% Reflectivity	0.7 mm @ 10 m, 1.2 mm @ 25 m
Max Speed	Up to 2 MPts/sec
3D Accuracy	2 mm @ 10 m, 3.5 mm @ 25 m
Ranging Error	±1 mm
Angular Accuracy	19 arcsec
LaserHDR	Yes
Temperature Range	Operating: +5 ° to +40 °C, Extended Operating: -10 ° to +55 °C, Storage: -10 ° to +60 °C

RANGE	
White, 90% Reflectivity	0.5 – 350 m
Dark-grey, 10% Reflectivity	0.5 – 150 m
Black, 2% Reflectivity	0.5 – 50 m

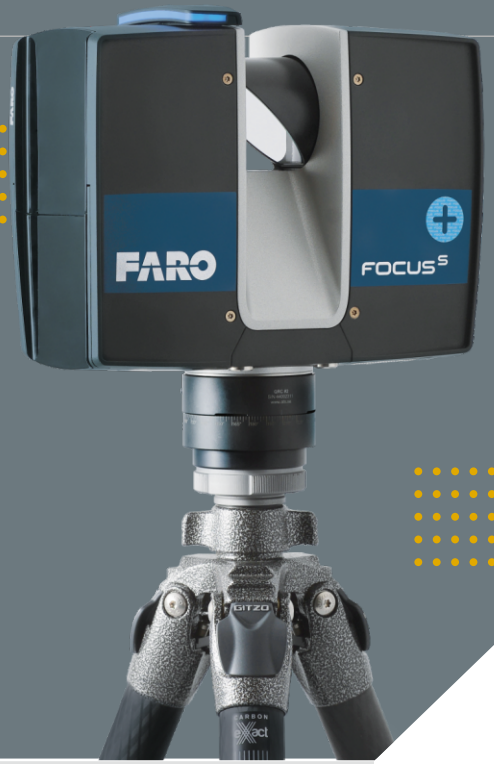
COLOR UNIT	
Color Resolution	Up to 266 MPx color
Raw Color Resolution	867 Mpx
HDR Camera	13 MPx - 2x, 3x, 5x brackets
Parallax	Minimized due to co-axial design

DEFLECTION UNIT	
Field of View	300° vertical8 / 360° horizontal
Step Size	0.009° (40,960 Pts on 360°) vertical / 0.009° (40,960 Pts on 360°) horizontal
Max. Scan Speed	97 Hz (vertical)

LASER (OPTICAL TRANSMITTER	
Laser Class	Laser Class 1
Wavelength	1553.5 nm
Beam Divergence	0.3 mrad (1/e)
Beam Diameter at Exit	2.12 mm (1/e)

DATA HANDLING AND CONTROL	
Data Storage	SATA 3.0 SSD 128 GB and SDXC™ V30 64 GB SD Card; SD3.0, UHS-I / SDXC™ / SDHC™, max. 512 GB
Scanner Control	Via touch screen display and WLAN connection, Control by FARO Stream App (iOS & Android) or mobile devices with HTML5
Equipment Calibration	Yearly

FARO FOCUS S150



RANGE	
Unambiguity interval	Upto 150 m
	614 m for up to 0.5 MPts/s
	307 m at 1 MPts/sec
	153 m at 2 Mpts/sec

RANGE NOISE	
White, 90% Reflectivity	0.1 mm @ 10 m, 0.2 mm @ 25 m
Dark-grey, 10% Reflectivity	0.3 mm @ 10 m, 0.4 mm @ 25 m
Black, 2% Reflectivity	0.7 mm @ 10 m, 1.2 mm @ 25 m
Max Speed	Up to 2 MPts/sec
3D Accuracy	2 mm @ 10 m, 3.5 mm @ 25 m
Ranging Error	±1 mm
Angular Accuracy	19 arcsec
LaserHDR	Yes
Temperature Range	Operating: +5 ° to +40 °C, Extended Operating: -10 ° to +55 °C, Storage: -10 ° to +60 °C

RANGE	
White, 90% Reflectivity	0.5 – 150 m
Dark-grey, 10% Reflectivity	0.5 – 150 m
Black, 2% Reflectivity	0.5 – 50 m

COLOR UNIT	
Color Resolution	Up to 266 MPx color
Raw Color Resolution	867 Mpx
HDR Camera	13 MPx - 2x, 3x, 5x brackets
Parallax	Minimized due to co-axial design

DEFLECTION UNIT	
Field of View	300° vertical8 / 360° horizontal
Step Size	0.009° (40,960 Pts on 360°) vertical / 0.009° (40,960 Pts on 360°) horizontal
Max. Scan Speed	97 Hz (vertical)

LASER (OPTICAL TRANSMITTER)	
Laser Class	Laser Class 1
Wavelength	1553.5 nm
Beam Divergence	0.3 mrad (1/e)
Beam Diameter at Exit	2.12 mm (1/e)

DATA HANDLING AND CONTROL	
Data Storage	SATA 3.0 SSD 128 GB and SDXC™ V30 64 GB SD Card; SD3.0, UHS-I / SDXC™ / SDHC™, max. 512 GB
Scanner Control	Via touch screen display and WLAN connection, Control by FARO Stream App (iOS & Android) or mobile devices with HTML5
Equipment Calibration	Yearly

JET 3DSCAN

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