

Scanner 3D pentru fixarea campului infractional

Sistem scanare 3D Faro Laser Scanner Focus3D-X30

Folosit în cadrul catedrei de criminalistica pentru realizarea imaginii 3d a unui craniu uman, imagine(fisier) care sta la baza analizelor antropometrice și la realizarea copiei prin intermediul unei imprimante 3D.

SPECIFICATIILE TEHNICE

Ranging unit

Unambiguity interval: By 122 till 488Kpts/sec at 614m; by 976Kpts/sec at 307m
Range Focus^{3D} X 30: 0.6m - 30m indoor or outdoor with upright incidence to a 90% reflective surface
Measurement speed (pts/sec): 122,000 / 244,000 / 488,000 / 976,000
Ranging error²: ±2mm

Ranging noise ³	@10m	@10m - noise compressed ⁴	@25m	@25m - noise compressed ⁴
@ 90% refl.	0.3mm	0.15mm	0.3mm	0.15mm
@ 10% refl.	0.4mm	0.2mm	0.5mm	0.25mm

Deflection unit

Field of view (vertical/horizontal): 300°⁵ / 360°
Step size (vertical/horizontal): 0.009° (40,960 3D-Pixel on 360°) / 0.009° (40,960 3D-Pixel on 360°)
Max. vertical scan speed: 5.820rpm or 97Hz

Laser (optical transmitter)

Laser class: Laser class 1
Wavelength: 1550nm
Beam divergence: Typical 0.19mrad (0,011°) (1/e, halfangle)
Beam diameter at exit: Typical 2.25mm (1/e)

Data handling and control

Data storage: SD, SDHC™, SDXC™; 32GB card included
Scanner control: Via touchscreen display and WLAN
WLAN access: Remote control, scan visualisation are possible on mobile devices with Flash® and HTML5

Multi-Sensor

Dual axis compensator: Levels each scan: Accuracy 0.015°; Range ± 5°
Height sensor: Via an electronic barometer the height relative to a fixed point can be detected and added to a scan.
Compass⁶: The electronic compass gives the scan an orientation. A calibration feature is included.

Configuratie: Scanner Focus3D multisensor, raza de actiune 30 m, cu GPS, busola, altimetru, WLAN si sistem compensare dual-axis. Datele citite de busola si altimetru sunt inregistrate de scanner, stocate si afisate individual in fisierul scan.

Sistemul include:

<ul style="list-style-type: none"> • Acumulator 	<ul style="list-style-type: none"> • Incarcator de masina
<ul style="list-style-type: none"> • Alimentator 	<ul style="list-style-type: none"> • Husa aluminiu pentru transport facil
<ul style="list-style-type: none"> • Protectie sursa laser 	<ul style="list-style-type: none"> • Panorama Quick Release
<ul style="list-style-type: none"> • 1 card SD, 32 GB 	<ul style="list-style-type: none"> • 1 licenta software SCENE ultima versiune, cu 1 an mentenanta • FARO Scene Extension Forensic
<ul style="list-style-type: none"> • 1 cititor card SD 	<ul style="list-style-type: none"> • Kit de curatare optic
<ul style="list-style-type: none"> • Trepied din fibra carbon 	<ul style="list-style-type: none"> • Camera foto integrata – 70 megapixel
<ul style="list-style-type: none"> • PC laptop inclus 	<ul style="list-style-type: none"> • Cutie tansport