AMUSE ONESELF™

NEW PRODUCT

TDOT™ GREEN 7

DRONE LASER SYSTEM

Mounted Image with GLOW.H Hybrid Drone

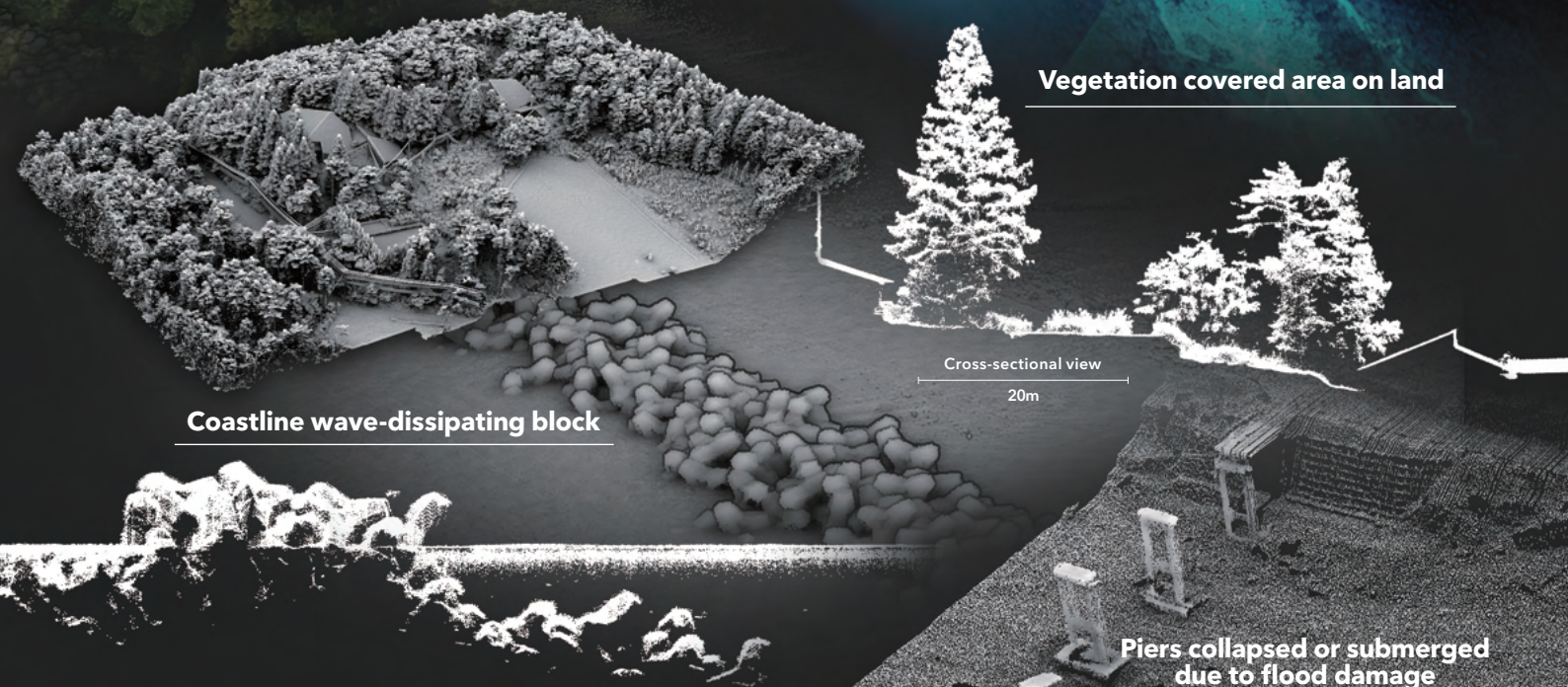
GREEN LIDAR

The one and only green LiDAR system for both land and shallow water

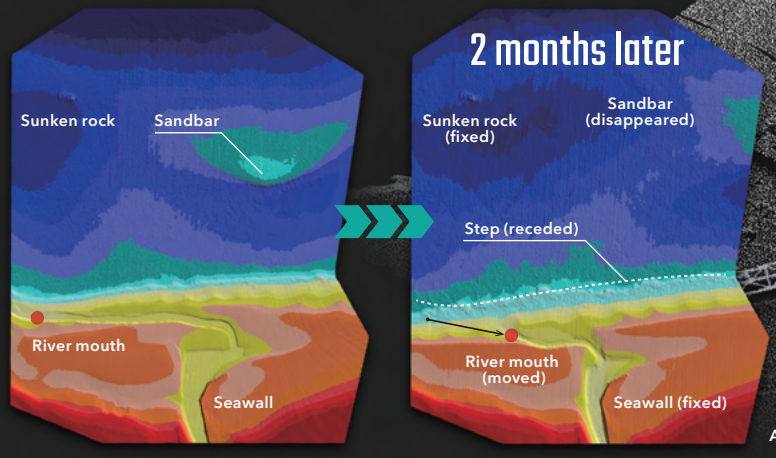
GREEN LiDAR	Visible CAMERA 3840x3046 12.4Mpixel	Thermal CAMERA 640x512pixel OPTION	LTE EQUIPPED	WEIGHT 3.6kg

Surveying object

Land area	River area
Shallow-sea area	Wet ground surface



Comparative verification of seashore topography



Altitude tint map

Possible to mount on various drones

Aurelia X6 MAX

Mounted image

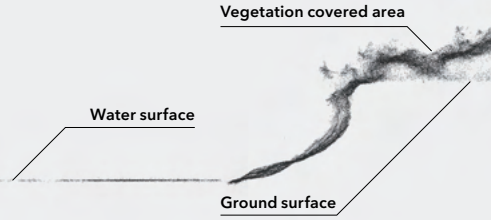
TDOT 7 Series Specifications

TDOT NIR 7
DRONE LASER SYSTEM

General purpose LiDAR system

Laser unit
RIGLE miniVUX-3UAV

Pulse rate	: 300, 000Hz
Scanning speed	: 100Line/sec.
FOV	: 360˚ ,180˚ ,120˚ variable
Number of echoes	: 5
Laser wavelength	: Near infrared

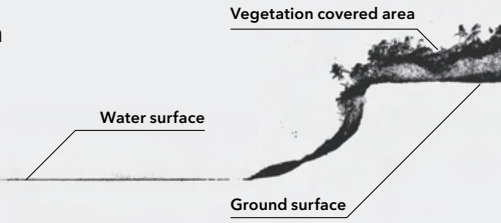


TDOT NIR-S 7
DRONE LASER SYSTEM

Ultra high speed LiDAR system

Laser unit
RIGLE VUX120^{23}

Pulse rate	: 2, 400, 000Hz
Scanning speed	: 400Line/sec.
FOV	: 100˚
Number of echoes	: 32
Laser wavelength	: Near infrared

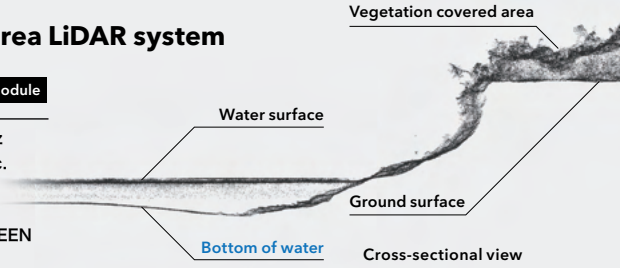


TDOT GREEN 7
DRONE LASER SYSTEM

Land/shallow water area LiDAR system

Laser unit
amuse oneself Original module

Pulse rate	: 160, 000Hz
Scanning speed	: 80Line/sec.
FOV	: 120˚
Number of echoes	: 6
Laser wavelength	: 532nm GREEN



FOV

Extensive data acquisition

Land/shallow water area green LiDAR

TDOT 7 GREEN

SPECIFICATION

Size (approx.)	W250xD310xH135mm			
Weight (approx.)	3.6kg			
Maximum Range in the air	≧10%	430m	≧100%	1400m
Minimum Range	2.5m			
Resolution	1mm			
Statistical error(1σ)	Strong echo signal:4mm			
	Weak echo signal:15mm			
Accuracy	5mm			
Divergence in scan direction	1.5mrad			
Laser wavelength	532nm			
Laser pulse rate	160, 000Hz			
FOV	120°			
Scanning speed	80Line/sec.			
Number of echoes	6			
Laser class	altitude > 35m:class 3R			
	altitude < 35m:class 1(Laser safety)			
Sounding Ability Best case R=0.4*1@50m altitube	1.43 Secchi			
Working temperature range	0~40℃ (No condensation)			

INS specification*2

Positional accuracy	5mm
Heading	0.03°
Pitch/Roll	0.006°
Speed	0.01m / sec.

*1 R=Reflectivity
*2 This is the accuracy after post-processing with the "POST-PROCESSING CLOUD" cloud service. An additional contract is required to use the service.

MODEL CHANGE

Significant Evolution

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