星天海洋
STARTEST MARINE

StartestU1

Underwater Camera for
Turbid Water

Product Overview

StartestU1 combines a camera head for image capture with a dedicated image processing unit. It improves contrast in turbid water in real time for underwater infrastructure inspection and close-range observation. The included software supports live preview and adjustment.

View and reconcile.

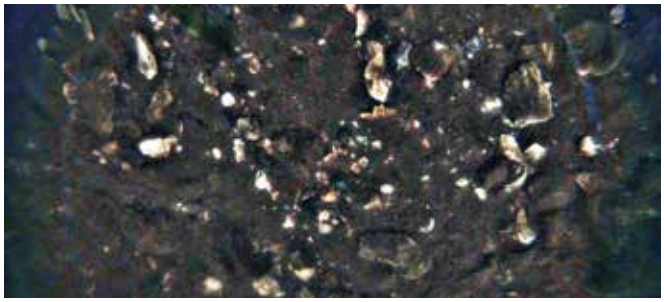


Camera Head



Image Processing Unit

[Image Enhancement Results]

Original Image	Offline Enhanced Image
	
Underwater leaves and rubble.	
	
Underwater debris and sediments	
	
Spoiled targets.	

[Applications]



Underwater facility inspection



Port terminal inspection



Underwater Target Observation

[Electrical Specifications]

Camera Power Supply	PoE
Camera Supply Voltage	12–24 V
Camera Data Interface	Gige
Processing Unit Ports	HDMI x 3, USB x 2, Net x 2
Processing Unit Operating System	Linux

[Mechanical Specifications]

Camera Housing Material	Aluminum Alloy / Titanium / Stainless Steel
Camera Dimensions	Length 275 mm, Diameter 116 mm
Processing Unit Dimensions (L × W × H)	211.3 × 201.2 × 40 mm （±0.5 mm）
Camera Depth Rating	500 / 1,000 / 3,000 m (optional)
Operating Temperature	0–60 ℃

[Optical and Video Specifications]

Optical Resolution	1920 × 1080
Field of View (Underwater)	67° (D) / 59° (H) / 48° (V)
End-to-End Latency	150 ms
Video Output	H.264 / H.265 Real-time output
Turbidity Range	0–50 NTU
Detection Range	0–50 cm
Illumination	White Light

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