



**Frontier of Underwater Technology**

# **DSME UTech**

## **Combined Inspection System [ SC-1500 Series ]**

### **Features**

- Complete Inspection by Sonar & Video
- Portable System
- Very High Resolution
- Integrated Six High Sensitivity Color Video Cameras
- Low Power Consumption

### **Applications**

- Fast Acoustic Survey & Video Inspection of Ocean, River, Lake and Dam



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## SPECIFICATIONS

### Towfish

	SC-1500	SC-1500D	SC-1500P
Towfish	 S-150	 S-150D	 S-150P
Material	Stainless Steel (SUS304)		
Size	1,200 × Ø100 (mm)	1,360 × Ø112 (mm)	900 × Ø89 (mm)
Weight	27 kg	32 kg	12 kg
Operating Frequency	400 kHz	100 kHz/400 kHz	400 kHz
Transducer Radiation	0.3° horizontal, 40° vertical	100kHz : 1.2° horizontal, 40° vertical 400kHz : 0.3° horizontal, 40° vertical	0.3° horizontal, 40° vertical
Transducer Depression Angle	20° down	5°, 10°, 15°, 20°, 25° down, Adjustable	20° down
Transmission Pulse	15 μs ~ 100 μs	100 kHz : 50 μs ~ 200 μs 400 kHz : 15 μs ~ 100 μs	15 μs ~ 100 μs
Range	22.5 m to 150 m	100kHz : 1.2horizontal, 40vertical 400kHz : 0.3horizontal, 40vertical	22.5 m to 150 m
Altimeter	200 kHz, 20 deg.		-
Depth Sensor	±0.5% Full Scale		
Towing Speed	1 ~ 8 knots		
Operating Depth	300 m		100 m
Safety Pin	Up to 200 kg		
Transit Case	Watertight Hard Case	Wooden Case	Watertight Hard Case

### Underwater Camera Module

- Aluminum (A6061)
- Construction
  - ▶ Impact Resistance Aluminum Housing
  - ▶ Hard Anodized
  - ▶ 6 Camera Ports
    - Vertical 1 set
    - Horizontal 5 set (slope of 50°)
  - ▶ 6 Built-in LED Lights
    - High Intensity LED (56 elements each per camera)
  - ▶ Dimensions
    - Maximum Diameter : Ø350 mm
    - Minimum Diameter : Ø160 mm
    - Height : 257 mm
    - Slope : 50°
  - ▶ Weight (in air) : 20.5 kg
  - ▶ CCD
    - 1/3 inch Color CCD
    - 410 K. 0.5 Lux. 520 TV Line
  - ▶ Light : 6 Channel High Intensity LEDs
  - ▶ Operating Depth : 100 m Max.
  - ▶ Depth Sensor : ±0.5% Full Scale

#### [Transit Case]

- Watertight Hard Case

### Deck Control Unit

- Sonar & Camera Compatible
- Size : 490 × 380 × 185 (mm)
- Weight : 13 kg
- Weather - Tight Portable PC System
- Monitor : High Luminance Color LCD 15" Fitted
- USB, LAN Interface
- Power : 24 VDC, 150 W Max.
- Battery Pack : 24 VDC, 26 Ah

#### [Position Tracking]

- Nested GPS / DGPS Navigation

