

TV-guided Multiple Corer (TV-MUC)

**Attention:**

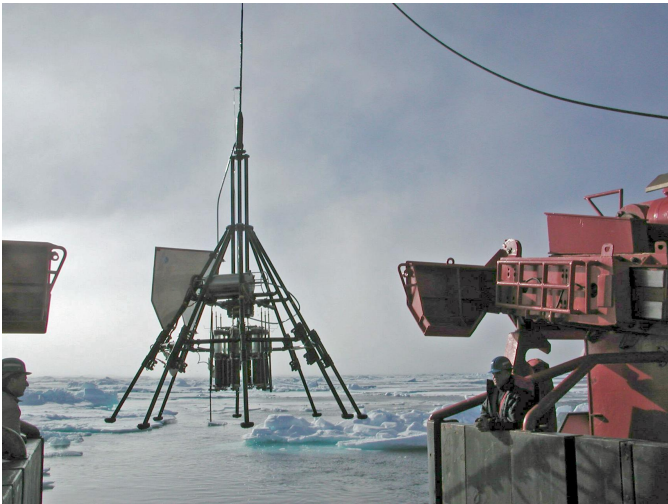
Please note that the TV-guided Multiple Corer can only be operated upon request. Request operations with the TV-guided Multiple Corer to AWI-Logistics in sufficient time prior to the cruise.

Apart from the pure TV-system it is necessary to provide separately the [Multi Corer \(MUC; tall frame with 12 tubes à 63mm\)](#) which can be borrowed e.g. at the AWI department of Geology (Dr. Jens Matthiessen).

Summary

The TV-guided Multiple Corer is a multi corer with a camera attached to it. Thereby it is possible to directly monitor the seafloor while sampling it.

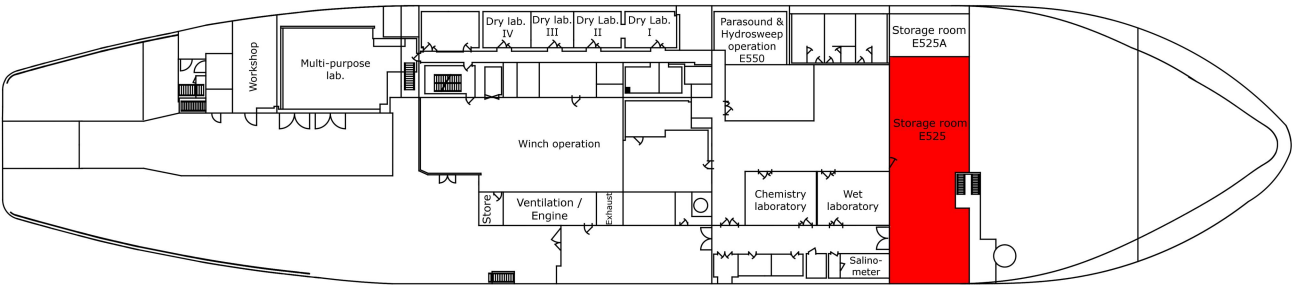
Manufacturer	isiTEC / AWI / Sanyo
Model	
Serial No.	n/a
Type	corer
REGISTRY-Link	REGISTRY (1242)



TV MUC system components

schematic drawing of Polarstern deck E

location of storage room E525 (storage of Underway CTD, GPS wave buoy, Posidonia equipment, TV MUC equipment)



Contacts

Name	Institution	Role
Ingo Schewe	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Data Scientist
Norbert Lensch	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Engineer In Charge

Alfred Wegener Institute for Polar and Marine Research	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Owner
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Components

Subdevices

Name	Model	Serial Number	REGISTRY-Link
DEEPSEA UW LED lamp 6.000m		n/a	REGISTRY (1505)
LWL_telemetry_onboard unit		n/a	REGISTRY (1506)
iSITEC LWL-underwater telemetry system		n/a	REGISTRY (1243)
iSITEC UW-video-camera_6000m	VCC-HD4600	n/a	REGISTRY (1504)

Position

Info	no xyz-position given, device stored in E525 and deployed when needed
X	0.0 (no unit given) (no description given)
Y	0.0 (no unit given) (no description given)
Z	0.0 (no unit given) (no description given)

Data logging, storage and archiving

Logged parameters

Parameter	O2ARegistry Output Type	Unit
imaging during deployment of multicorer (MUC)	image	unknown

Central geographical ship's position and time standard

Rawdata storage on board

Data archiving on land

Documentation

- [LWL Telemetrie Dokumentation V1.01 \(User Manual, 4 MB\)](#)
Manual zur iSITEC TV-MUC Telemetrie
- [LWL Telemetrie quick setup guide \(User Manual, 394 kB\)](#)
Quick Setup guide zur TV-MUC Telemetrie Bordeinheit