Subsea Manipulator



Wrist Camera

• Estimated operational cost savings of 0.56% pa for typical IMR vessels.

Offshore Rental

- Payback <2 months with time and motion cost savings.
- Enhanced inspection and fault-finding capability.
- Eliminate the need for a wand camera.

The Advanced Capability (ADCAP) Manipulator camera kit

by Se-Alt is designed to be a direct replacement and significant upgrade to the standard Schilling Robotics Titan III & IV Wrist Camera.

System Features

- Full 1080p 60fps HD SDI resolution
- •10xOptical Zoom & Focus, Manual & Auto with further 16x Digital Zoom change in real time
- Exceptional Low light Visibility
- Image stabilization reduces blurring from vibration.
- Greatly Increased Lumen output from new LED technology High and Low beam
- UV Fluorescence detection LEDs as optional extra under development

• User Friendly UI with all camera parameters available to

 Power, Camera & Lights, controlled from the Schilling Robotics OEM Master Controller Driver buttons allow for universal familiarity.

• Optional Master Controller Thumb stick (Joystick) for operator control of manual Zoom and Focus Commands • 3000m depth rated.

Camera Features

- HD/3G-SDI and HDMI camera solution based on Tamron **MP3010M-EV**
- Lightweight and compact 5 Megapixel camera
- 10x optical zoom, 16x digital zoom
- Effective number of pixels approx. 5,140,000
- Supports all HD modes up to: 1080p/60

- Shutter speed 1/1 to 1/10,000 sec
- HD-VLCTM output mode for long cable length applications Simultaneous display of SDI, HDMI and high-quality analog video supported

• High-sensitive 1/2.8-type Sony IMX335 STARVIS CMOS sensor • Selectable TTL/RS-232/RS-485 comms port for camera control/communication

Single VISCA programmable 3.3V PWM output channel

<u>Camera Physical and Environmental Details:</u>

Power requirement	8V to 12V DC +/- 10%
Power consumption	approx. 3.5W (approx. 5.4W during Z & F)
Operating temperature	-5°C to +60°C (recommended: 0°C to +40°C)
Storage temperature	-20°C to +60°C

Camera Specifications:

Image sensor	1/2.8-type Sony IMX335 STARVIS CMOS sensor
Pixel output (H x V)	1920 x 1080; 1280 x 720
Signal system (SD)	NTSC/PAL
Video format (HD)	1080p/60, 1080p/59.94, 1080p/50, 1080p/30,
	1080p/29.97, 1080p/25,
	720p/50, 720p/30, 720p/29.97, 720p/25
Lens (wide to tele)	10x optical zoom, f=3.3 ~ 33mm, F1.8 ~ 3.4
Horizontal viewing angle	59.2° (w) ~ 6.7° (t)

PO Box 2143, 5504 Haugesund | Eikeskogveien 54, 5570 Aksdal, Norway | +47 47 47 52 30 | post@offshorerental.no | offshorerental.no