



# Remotely Operated Vehicle Pixel



*Reimagine underwater storytelling*

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### **PERFORMANCE SPECIFICATIONS**

Maximum Working Depth	300 m
Tether Length	300 m
Tether Composition	Fiber optic lines (4), DC Power (2+, 2-)
Thrusters	Tecnadyne Model 561 x6
Lighting	Dual clusters of dimmable LED arrays, 100,000 lumens total

### **CAMERA HOUSINGS**

Panoramic System	3 SONY CMOS HD cameras in 4" dia housings - 160 degree forward field of view, reconfigurable as requested
Cinema Housings (2)	9" dia x 30" housing with dedicated fiber optic line and camera tilt plate. 150v, 24v, 12v, & 5v DC power available. Suitable for SONY Venice, RED Helium, Arri Alexa or other suitable motion or stills camera
Down Looking Housing	5" dia x 16" housing with shared fiber optic line. 24v, 12v and 5v DC power available. Suitable for SONY Micro 4k, Blackmagic Micro Studio or similar

\* Camera live feed and control systems are adaptable to most brands and models.

### **TOPSIDE VEHICLE CONTROL SPECIFICATIONS**

Vehicle Control	Benthos hand controller with 25' cable
Vehicle Power	Ametek Sorensen XG300-5 Power Supply x4
Camera Control	For cinema systems - Camera specific control systems and Preston remote lens controller
Live Feed Monitors	Blackmagic Smartview HD 17" monitor Blackmagic Smartview Duo 8" HD monitors x2 Expandable to monitor-per-camera



### PHYSICAL SPECIFICATIONS

Pixel (w/cinema lighting)	96”w x 40”l x 33”h, 280 lbs
Pixel (w/survey lighting)	60”w x 40”l x 33”h, 280 lbs
Tether (coil) Dimensions	42”w x 42”l x 18”h, 150 lbs
Topside Control Station	27”d x 24”w x 32”h
Topside Monitoring Station	Adaptable based upon available space

### DEPLOYMENT SPECIFICATIONS

Vessel	25’ LWL or greater with both open deck space and a protected topside area
Power	110 or 220vac, 30 amps minimum
Launch & Retrieval	Crane or davit rated for 400 lbs minimum
ROV Staff	Pilot, Camera Operator, Technician

\*\*\* MITech’s charter vessel exceeds ROV requirements.

### TRANSPORTATION REQUIREMENTS \*\*\*\*

Pixel ROV & Tether	Shipping Container, 46”w x 46”l x 44”h, 500lbs
Topside Systems & Spares	Shipping Container, 46”w x 39”l x 50”h, 600lbs

\*\*\*\* To facilitate locations with shipping limitations, the Pixel ROV and control system can be transported in multiple hard sided cases as checked airline baggage.

### Available Add-on Systems (additional fees required)

Multi-beam Sonar	Side Scan Sonar
Sector Sonar	Scanning Sonar
Doppler Sonar	Blue View
3D Optical Imaging	USBL
INS System	ADCP
CTD	Manipulator
Dissolved Oxygen	Sonde



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