



BlueComm WVCS

BlueComm Wireless Video Camera System provides a real-time video link from one or more subsea video cameras to an ROV or other asset at ranges up to 200 metres. Integrated acoustic positioning and communications provides long range (>3 km) command and control of the camera and optical link including wake-up, pan, tilt, zoom, lighting and sleep mode control functions.

BlueComm WVCS can be used to provide a remote 'eyeball' on specific subsea operations removing the need for a second ROV.

BlueComm™

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BLUECOMM
TRANSFERS SUBSEA DATA
LIGHTNING FAST

BlueComm is a wireless, high speed optical communications technology that can transfer data underwater at broadband speeds. Coupled with a 6G acoustic downlink, BlueComm allows for the extraction of large amounts of data in an energy efficient manner and supports the transmission of camera imagery and high definition video in real-time.

Capabilities

- Up to 20 Mbps data rate
- Up to 200 metres range
- Suitable for shallow or deep water applications
- Highly energy efficient providing long battery life
- Integrated data logger enables data to be recorded locally
- Integrated long range acoustic communications and positioning
- Data recovery via AUV, ROV or surface deployed dunking system

Applications

- High speed data harvesting from seabed observatories
- Tetherless ROV/ AUV vehicle control
- Live streaming from remote subsea cameras during operations
- Umbilical-free command and control of seabed instruments
- Wireless intervention using ROVs and AUVs

The fastest way to wirelessly transfer data underwater.



BlueComm HAL

For shallow water applications, BlueComm High Ambient Light (HAL) transfers data at up to 5 Mbps over ranges of up to 20 metres.

HAL uses an array of high power light emitting diodes (LEDs) that are rapidly modulated to transmit data. Highly sensitive receivers are capable of detecting low energy light signals and decoding the communication data in the presence of significant ambient noise generated by daylight operation. BlueComm HAL supports bi-directional optical communications with the option of an integrated acoustic link for long range command and control.



BlueComm OATS

Suitable for moderate to low turbidity, deep, dark water beyond 350 metres, BlueComm Optical Acoustic Telemetry System (OATS) supports data transmission rates of up to 20 Mbps at a maximum range of 200 metres.

A bi-directional high speed, low latency Ethernet link is supplemented with a uni-directional acoustic link for command, control and positioning. This capability is ideal for applications where high speed data transfer is required in only one direction such as the extraction of large data volumes from seafloor instrumentation or sensors.