



**I-TECH**  
SUBSEA BULLSEYES



**CLEARVIEW**  
MOUNTING SYSTEMS

[www.subseabullseye.com](http://www.subseabullseye.com)





*I-TECH Ø350mm x 2° Subsea Bullseye with yellow decal*

## I-TECH Subsea Bullseyes

The I-TECH Subsea Bullseye provides an accurate, cost effective solution for monitoring inclination subsea. Bullseyes are available in a variety of sizes and angle tolerances to suit your requirements.

When calibrated to a subsea structure the bullseye gives a true reading of inclination to an accuracy of  $\pm 0.1^\circ$ . The highly visible reading area allows bullseye readings to be easily taken by divers, ROV's or static subsea camera systems. A unique domed viewing area reduces silt build up, minimising the need for cleaning / maintenance and the all-polymer design is strong, lightweight and will not degrade in salt water. Units are type tested to a depth of over 6000m (20,000ft) ensuring functionality for deep-water applications.

The innovative range of Clearview™ Mounting Systems provide an easy and secure means of calibrating and fixing the bullseye to any structure.

## Tried, Tested, Trusted.

- Strong, lightweight all-polymer construction
- Variety of stock sizes and measurement scales available
- Bespoke design service available - solutions developed to specification
- Low weight allows easy handling and installation
- Various mounting and calibration brackets available
- Little or no maintenance required
- Type tested to 6100m / 20,000ft
- Accurate to  $\pm 0.1^\circ$
- Quality and reliability proven over 30 years with no failures



*I-TECH Ø350mm x 5° Bullseye mounted on Clearview™ Top Mount Assembly*

## Technical Solutions for Extreme Environments



*I-TECH Bullseyes captured on ROV camera*



*An engineer makes quick work of installation and calibration using the Clearview™ Mounting System*

I-TECH Subsea Bullseyes and Clearview™ Mounting Systems are used on a variety of subsea installations:

- Subsea BOP Stacks
- Subsea Trees & Manifolds
- Subsea Drilling Templates
- Wellheads
- Subsea Pipelines
- Subsea Guide Bases
- Platform Jacket Structures



# Clearview™ Mounting Systems

The range of Clearview™ Mounting Systems has been developed to simplify and improve the installation and calibration of the I-TECH Subsea Bullseye. The Clearview™ Mounting Systems offer a range of benefits over inferior metal counterparts:

- Quick and easy installation (20mins vs. 2hrs)
- Fast, accurate calibration
- Incredibly strong polymer construction
- Lightweight - can be handled and installed by one man (14kg vs. 60kg +)
- Non-hygroscopic
- Non-corrosive



Clearview™ Adjustable Calibration Sleeves



Installation & Calibration is a quick and easy process using the innovative Clearview™ Mounting System - a process that might take hours can now be completed in a matter of minutes. For more information and to see how quickly the process is please contact [sales@subseabullseye.com](mailto:sales@subseabullseye.com)

## STEP 1

Drill / tap mounting surface (pitch & thread provided)

## STEP 2

Position Clearview™ Mounting Bracket

## STEP 3

Calibrate by hand using Clearview™ Adjustment Sleeves

## STEP 4

Lock the bracket in place using fixing studs

## TOP MOUNT



The Clearview™ Top Mount provides a simple, robust solution for mounting the bullseye to any flat horizontal surface. A carrying handle is provided for easy handling of this lightweight solution. The Clearview™ Top Mount can be supplied to suit all bullseye sizes:

Ø350mm

Ø250mm

Ø150mm



## SIDE MOUNT



The Clearview™ Side Mount provides a solution for installation on vertical surfaces. The Clearview™ Side Mount can be supplied to suit all bullseye sizes:

Ø350mm

Ø250mm

Ø150mm



# The I-TECH Clearview™ Range

Bullseyes are available in a variety of dimensional sizes and angle measurement ranges.

A bespoke design service is also offered allowing you to customise the I-TECH bullseye to meet your specific requirements.



## CLEARVIEW™ MOUNTING ASSEMBLIES (AVAILABLE FOR ALL BULLSEYE DIAMETERS AND ANGLE RANGES)



Part Number (BULLSEYE ONLY)	Outer Diameter (D1)	Dome Diameter (D2)	Overall Height (H1)	Height to Shoulder (H2)	Angle Range	Decal (available in white or yellow)	Part Number (BULLSEYE + TOP MOUNT)	Part Number (BULLSEYE + SIDE MOUNT)	Part Number (BULLSEYE + PORTABLE MOUNT)
ITECH/CVSI/ 350/15	Ø350mm	Ø313mm	103mm	88mm	0-15°		ITECH/CVM/T/ 350/15/ASSY	ITECH/CVM/S/ 350/15/ASSY	ITECH/CVM/P/ 350/15/ASSY
ITECH/CVSI/ 350/10	Ø350mm	Ø313mm	93mm	78mm	0-10°		ITECH/CVM/T/ 350/10/ASSY	ITECH/CVM/S/ 350/10/ASSY	ITECH/CVM/P/ 350/10/ASSY
ITECH/CVSI/ 350/7	Ø350mm	Ø313mm	83mm	68mm	0-7°		ITECH/CVM/T/ 350/7/ASSY	ITECH/CVM/S/ 350/7/ASSY	ITECH/CVM/P/ 350/7/ASSY
ITECH/CVSI/ 350/6	Ø350mm	Ø313mm	83mm	68mm	0-6°		ITECH/CVM/T/ 350/6/ASSY	ITECH/CVM/S/ 350/6/ASSY	ITECH/CVM/P/ 350/6/ASSY
ITECH/CVSI/ 350/5	Ø350mm	Ø313mm	83mm	68mm	0-5°		ITECH/CVM/T/ 350/5/ASSY	ITECH/CVM/S/ 350/5/ASSY	ITECH/CVM/P/ 350/5/ASSY
ITECH/CVSI/ 350/2	Ø350mm	Ø313mm	83mm	68mm	0-2°		ITECH/CVM/T/ 350/2/ASSY	ITECH/CVM/S/ 350/2/ASSY	ITECH/CVM/P/ 350/2/ASSY
ITECH/CVSI/ 250/7	Ø250mm	Ø213mm	83mm	68mm	0-7°		ITECH/CVM/T/ 250/7/ASSY	ITECH/CVM/S/ 250/7/ASSY	ITECH/CVM/P/ 250/7/ASSY
ITECH/CVSI/ 250/5	Ø250mm	Ø213mm	83mm	68mm	0-5°		ITECH/CVM/T/ 250/5/ASSY	ITECH/CVM/S/ 250/5/ASSY	ITECH/CVM/P/ 250/5/ASSY
ITECH/CVSI/ 250/2	Ø250mm	Ø213mm	83mm	68mm	0-2°		ITECH/CVM/T/ 250/2/ASSY	ITECH/CVM/S/ 250/2/ASSY	ITECH/CVM/P/ 250/2/ASSY
ITECH/CVSI/ 150/5	Ø150mm	N/A	61mm	61mm	0-5°		ITECH/CVM/T/ 150/5/ASSY	ITECH/CVM/S/ 150/5/ASSY	ITECH/CVM/P/ 150/5/ASSY
ITECH/CVSI/ 150/2	Ø150mm	N/A	61mm	61mm	0-2°		ITECH/CVM/T/ 150/2/ASSY	ITECH/CVM/S/ 150/2/ASSY	ITECH/CVM/P/ 150/2/ASSY
ITECH/CVSI/ 100/7	Ø100mm	N/A	49mm	49mm	0-7°		ITECH/CVM/T/ 100/7/ASSY	ITECH/CVM/S/ 100/7/ASSY	ITECH/CVM/P/ 100/7/ASSY

## ■ Clearview™ Portable System

The Clearview™ Portable System allows an ROV to transport the bullseye and carry out spot inspection of predefined locations. The handle is locked in place when the unit is carried, when released it locates to provide unobscured view of the bullseye.

Handle folds away when released:



Handle options (more available):



Part Number: ITECH/CVM/P

## ■ Bullseye Protective Cover (EPC)

Prior to deployment bullseyes are often mounted and left exposed to the elements for extended periods. The new I-TECH Clearview™ Environmental Protective Cover (EPC) protects the bullseye from the damaging effects of harsh sunlight, heat and debris. Using an advanced insulating material and a hard reflective polymer cap the EPC provides the bullseye with a stable habitat prior to deployment subsea.

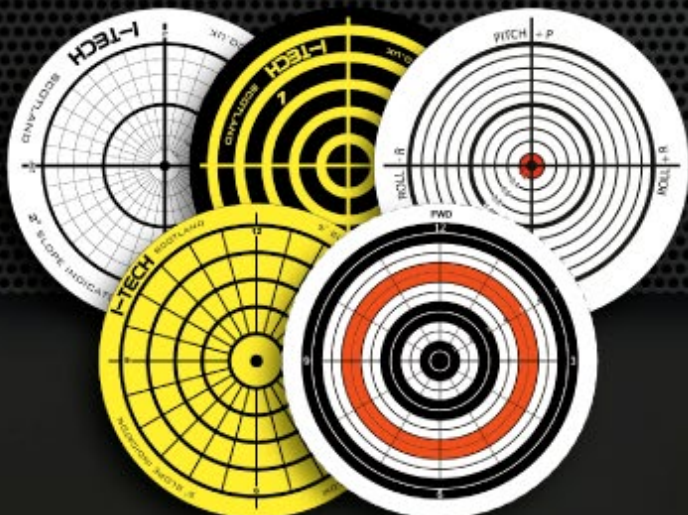


The EPC is available in a variety of sizes to suit all bullseye mounting assemblies. Contact the I-TECH sales team for more details.

## ■ Custom Solutions for Specific Requirements

At I-TECH we understand that every installation presents new challenges. Calling on 30 years experience our team of design engineers can help you develop a bespoke solution to meet your requirements: from simple decal customisations to complete design overhauls of bullseyes and mounting systems.

Contact us now to discuss your customisation project.



A small selection of customised decals



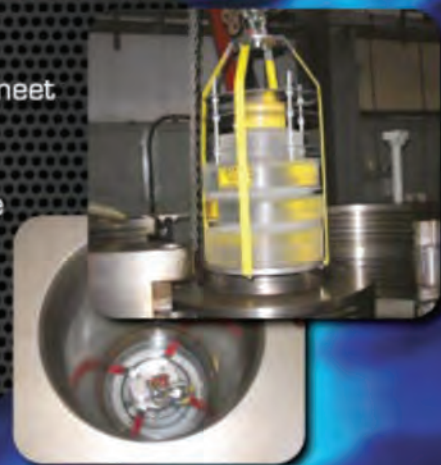
Examples of customer specific design work

## ■ Testing

Rigorous testing is carried out to ensure I-TECH Clearview™ Subsea Bullseyes meet the highest standards.

Calibration testing is carried out using digital inclinometers and all bullseyes are accurate to  $\pm 0.1^\circ$ .


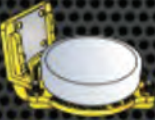

Pressure testing is carried out by an independent authority to ensure that all units are capable of withstanding the pressures generated at -20,000ft (6100m). A copy of the most recent test certificate can be obtained online at [www.subseabullseye.com/ITECH-pressure-test-certificate.pdf](http://www.subseabullseye.com/ITECH-pressure-test-certificate.pdf)



## ■ Handling, Unit Weights, Maintenance

I-TECH Clearview™ Subsea Bullseyes are incredibly light and easy to handle, unit weights are shown on the table to the left.


Prior to deployment subsea bullseyes should be protected from sunlight, extreme temperatures, exposure to chemicals and impacts - to give your bullseye maximum protection use the I-TECH Clearview™ EPC (see overleaf).


BULLSEYE SIZE	Ø350mm 10° > 15° Bullseye	Ø350mm 2° > 7° Bullseye	Ø250mm 2° > 7° Bullseye	Ø150mm 2° > 5° Bullseye	Ø100mm 7° Bullseye
BULLSEYE ONLY WEIGHT	8.6kg	8.0kg	4.0kg	1.2kg	0.5kg
BULLSEYE + TOP MOUNT WEIGHT 	12.0kg	11.3kg	5.9kg	1.9kg	TBC
BULLSEYE + SIDE MOUNT WEIGHT 	17.9kg	17.3kg	9.2kg	3.2kg	TBC
BULLSEYE + PORTABLE MOUNT WEIGHT 	13.1kg	12.5kg	6.8kg	TBC	TBC


## ■ Ordering & Shipping

A range of bullseyes and mounting systems are held in stock at our plant in the UK and distribution centre in Texas. Worldwide shipping can be organised by our experienced logistics team. Bullseyes are securely packed in robust treated wooden crates which meet international shipping standards.

I-TECH Subsea Bullseyes and Clearview™ Mounting Systems are manufactured in Scotland (UK) by ICL Tech Ltd.

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