

## XEO HD TV

<b>Institution/Company name</b>	<b>Hercules Control, S.L. (HCTech)</b>
Contact details	Republica Checa 40. 15707 Santiago de Compostela (A Coruña). Spain Carlos Durán Neira <a href="mailto:carlosduran@hctech.eu">carlosduran@hctech.eu</a> +34 981 551 732 / +34 981 552 836
Website	<a href="http://www.hctech.eu">www.hctech.eu</a>

### □ Key words

Advanced engineering (including robotics / control systems) - Communications - Data management - Materials / fabrication / assembly - Satellite Navigation - Sensors / instrumentation / electronics - Software engineering / development

### □ Description

XeoTV is a **tool to allow HD underwater georeferenced video recording and analysis.**

The device comprises both hardware - HD camera with water proof housing, cable, GPS and plugging interface, plus optionally an additional device for the camera for in-motion record - and software - for HD video visualization and mapping for each track. The hardware is plugged to an on board regular laptop – not included.

User of XeoTV will get georeferenced record from a boat during navigation (up to 70 m depth) or stopped (up to 100 m depth). In a single screen the user will get a map of the track, an image window – where the recorded images are shown, plus a text window where the main parameters of the record - name of the file, date, place, company... – and for each frame – GPS coordinates, time... - are displayed.



Additionally, XeoTV GPS reference of each frame is protected in order to make record inviolable.

XeoTV has been designed to be used by companies and public institutions on seabed inspection, cartography definition, marine heritage research and inspection, shipwrecks and so on.

□ **Applicability of Technology to Maritime SMES**

XeoTV has a wide range of applications for almost any underwater activity, based on two main benefits: it is easy to use – and results may be quickly understood even for non-specialist staff – and it is inviolable – each frame is linked to its GPS coordinates.



Potential customers of this technology are environmental consultancy and engineering companies, who can offer their customers an easy to use inviolable record as a third party proof of any underwater work or operation. Firefighters, security forces, fishing inspection and scientific and technological research agencies are also enlisted among potential customers of XeoTV.