


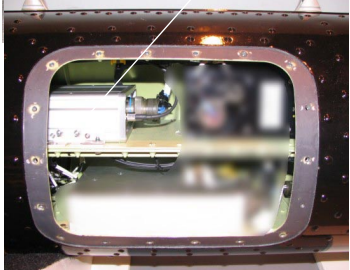


AHMOS 2: Monitoring of Military Aircraft Structures

Project	To develop a flight-worthy interrogator as Smart Fibres' contribution to a EU funded consortium to demonstrate practical Structural Health Monitoring systems able to reduce the cost of ownership of military aircraft or other military platforms.
Partners	BAE Systems, QinetiQ, EADS – DASA, Patria Finavitec Oy, VTT Manufacturing Technology, Emmecon Oy, Stork Fokker Services, National Aerospace Laboratory, Alenia Aerospazio, Centro Italiano Ricerche Aerospaziali, EADS – CASA, Instituto Nacional de Technica Aeroespacial, Universidad Politecnica de Madrid, DEMEX Consulting Engineers AS, Risø National Laboratory
Date	2004 - 2007
Location	EU
Interrogator	In-house development of a high-speed military interrogator, designated Wx
Images	 <p>Above: Hawk Trainer Jet</p>  <p>Right: Location of the Wx in the under-wing instrument pod</p>  <p>Right: Wx military prototype</p> 
Results	<p>The Wx development program was extremely successful; an interrogator with a data acquisition rate of 2.5 KHz and a measurement repeatability of approximately 2 microstrain was demonstrated.</p> <p>The instrument managed to pass a series of demanding ground and flight tests. The flight tests simulated combat manoeuvres, with the instrument pod being subjected to accelerations as high as 9g.</p> <p>Wx instrument was assessed to have achieved a technology readiness level of 7 by AHMOS consortium</p>
Further information	Contact Smart Fibres