

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)								February 2006	
BUDGET ACTIVITY 7 - Operational system development				PE NUMBER AND TITLE 0305206A - Airborne Reconnaissance Adv Development				PROJECT K98	
COST (In Thousands)	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
K98 MASINT SENSOR INTEGRATION (JMIP)	8108	5321	12	12	13	18	21	0	29589
<p>A. Mission Description and Budget Item Justification: This project continues development of advanced tactical reconnaissance and surveillance sensor technologies and develops technology for the on-board fusion of multi-discipline intelligence sensors, i.e. Signals Intelligence (SIGINT), Imagery Intelligence (IMINT), and Measurement and Signature Intelligence (MASINT). Hyperspectral, multi-spectral, interferometric synthetic aperture radar sensors, advanced target and image exploitation software will be developed. Additionally, efforts will be directed toward the development of advanced multi-mode Electroptical/Infrared (EO/IR), multi-mode MTI/SAR radar, foliage penetration radar, multi-spectral/hyperspectral imageries (MSI/HSI), MASINT on-board fusion and registration, and cueing of the EO/IR/SAR/HSI imaging sensor. The Hyperspectral Longwave Imager for the Tactical Environment (HyLITE) is the next generation airborne day/night hyperspectral reconnaissance sensor for the detection and identification of camouflaged and concealed targets in all terrain environments. Design improvements will be implemented and flight testing conducted to assess system performance.</p> <p>Beginning in FY 2007, most of the funds from this line have been transferred to 0203744A, Project 028</p>									
<u>Accomplishments/Planned Program</u>						<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
Continued spiral development and integration of multi-mode MTI/SAR/MSI/HSI/EO/IR capabilities for the ACS program						5008	0	12	
Continued development of MTI/SAR Capability						0	5321	0	
Continued Development and test efforts for HyLITE						3100	0	0	
Total						8108	5321	12	

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<u>B. Program Change Summary</u>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	8111	5398	5599
Current BES/President's Budget (FY 2007)	8108	5321	12
Total Adjustments	-3	-77	-5587
Congressional Program Reductions		-23	
Congressional Rescissions	-3	-54	
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years			-5587

FY 2007 Funds transferred to 0203744A Project 028

<u>C. Other Program Funding Summary</u>	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
0203744A/028 ACS	120302	64980	32719	26584	171530	245991	349800	CONT	CONT
A02005 Aerial Common Sensor	0	0	0	0	4907	3456	4736	CONT	CONT

Comment:	
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D. Acquisition Strategy The ACS Technology Demonstration (TD) phase completed in 3QFY03. The System Development and Demonstration (SDD) phase, was initiated 4QFY04 with a competitively awarded Cost-Plus-Award-Fee contract. The ACS SDD contract was terminated in January 2006. Development efforts will continue to mature MTI/SAR/MSI/HSI and multi-sensor technologies identified and found critical to the Aerial Common Sensor (ACS) program based upon the ACS Concept Exploration (CE) and TD phases.