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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				PE 0603774A: <i>Night Vision Systems Advanced Development</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	8.000	-	-	-	-	-	-	-	-	0.000	8.000
131: <i>NIGHT VISION SYS A/DEV</i>	8.000	-	-	-	-	-	-	-	-	0.000	8.000

Note

Change Summary Explanation: FY10 funds reprogrammed for Electro Optical Infgra Red w/Laser Designator (EO/IR/LD) Common Sensor Payload (CSP) High Definition Target Location Accuracy (HD/TLA) efforts supporting Unmanned Aircraft Systems (UAS).

A. Mission Description and Budget Item Justification

This program element addresses initiatives to develop and transition technologies from the laboratories and industry in order to improve fielded equipment in the current force as well as initiation, development, and engineering/program management support of systems for fielding to the warfighter. A major thrust will be to transition technologies to acquisition programs that meet required, advanced sensor capabilities. This includes the ability for sensors to accomplish Advanced Unmanned Aerial Vehicle (UAV) Payload missions.

This program has no FY12 Base or OCO requirement.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	-	-	-	-	-
Current President's Budget	8.000	-	-	-	-
Total Adjustments	8.000	-	-	-	-
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	8.000	-			
• SBIR/STTR Transfer	-	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603774A: Night Vision Systems Advanced Development				PROJECT 131: NIGHT VISION SYS A/DEV			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
131: NIGHT VISION SYS A/DEV	8.000	-	-	-	-	-	-	-	-	0.000	8.000
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

This project supports the Army's transformation by developing payloads for brigade combat team, division, and corps Unmanned Aircraft Systems(UAS) and unmanned systems in accordance with Headquarters Department of the Army (HQDA) and Training and Doctrine Command (TRADOC) priorities.

The Electro Optical Infra Red w/Laser Designator (EO/IR/LD) Common Sensor Payload (CSP) High Definition Target Location Accuracy (HD/TLA) is being developed and built at the direction of the Vice Chief of Staff of the Army for the Gray Eagle (formerly known as Extended Range Multi Purpose) program and has potential application to other platforms. The CSP HDTLA system will provide a day/night capability to collect and display continuous high definition imagery with enhanced ability to designate targets of interest for attack by laser guided precision weapons.

This program has no FY12 Base or OCO requirement.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: CSP HD/TLA HD/IR and Laser Technology Description: HD/IR and Laser Technology Maturity FY 2010 Accomplishments: HD/IR and Laser Technology Maturity	8.000 0	-	-	-	-
Accomplishments/Planned Programs Subtotals	8.000	-	-	-	-

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• RDT&E - 0305204A: Tactical Unmanned Aerial Vehicle (11A)	39.591		16.000		16.000		14.905	15.305	15.763	0.000	107.764
	87.154		136.183	10.800	146.983		259.486	234.153	59.707	0.000	1,052.524

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems Advanced Development</i>				PROJECT 131: <i>NIGHT VISION SYS A/DEV</i>			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
<ul style="list-style-type: none"> • APA - A00020: MQ-1 Payload - UAS 											
D. Acquisition Strategy											
<p>Acquisition Strategy. The approved acquisition strategy was a sole source task order through the competitively awarded Navy Basic Order Agreement (BOA) with Raytheon to mature the HDIR camera and the Diode Pump laser technology from Technology Readiness Level (TRL) 5 to TRL 6. Once sufficiently matured, the components will be incorporated (integrated) into test systems and transitioned into the Block upgrade program to undergo further system and qualification testing (FY12) as part of RDTE efforts conducted in the HD/TLA Block upgrade under Advanced Payloads (PE 0305204A Project D11A).</p>											
E. Performance Metrics											
<p>Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.</p>											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army											DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems Advanced Development</i>				PROJECT 131: <i>NIGHT VISION SYS A/DEV</i>					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
HD/IR and Laser technology Maturity	C/BOA	Raytheon:McKinney, TX	-	-		-		-		-	Continuing	Continuing	0.000
Subtotal			-	-		-		-		-			0.000
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		-		-		-			0.000
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army															DATE: February 2011														
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>										R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems Advanced Development</i>										PROJECT 131: <i>NIGHT VISION SYS A/DEV</i>									

	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
HD/IR and Laser Technology Maturity																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems Advanced Development</i>	PROJECT 131: <i>NIGHT VISION SYS A/DEV</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
HD/IR and Laser Technology Maturity	3	2010	3	2011

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