710934450

IMAGE INTENSIFIER TUBES (IITS) FOR PUMA HC MK2

Multi Helicopter Platforms (MHP) Delivery Team (DT)

Statement of Requirement (SoR)

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Number	**Date**	**Reason for Change**	**Amended by**
1	03/05/24	Update to Annex A SoR requirements at items 2 & 3 at Contract Award following ITN conclusion.	E. Bulmer

1. Introduction

1.1 Multi-Helicopter Platform Delivery Team (MHP DT) ('the Authority') requires the Contractor to provide 60 (sixty) Photonis 4G+ White Phosphor (WP) Image Intensifier Tubes (IITs), Part No XW3240AE.

1.2 The System Requirements are covered at ANNEX A – Puma 4G+ White Phosphor Image Intensifier Tubes System **Requirements**.

1.3 The contractor shall provide/deliver the required goods/services to the site listed at *Table 1* below.

Site Name	**Site Representative if not Project Lead**	**Address**
RAF Benson		

Table 1 – Recipient for deliverables

1.4 The duration of this Contract shall be for the duration of manufacture and delivery of the Photonis 4G+ WP IITs.

Contract Delivery	**YEAR**
All equipment	2024

2. Core Service

2.1 Provision of total quantity 60 (sixty) Photonis 4G+ White Phosphor Image Intensifier Tubes, Part No XW3240AE.

2.2 The contractor shall demonstrate the system can achieve compliance against the following standards:

2.2.1 Def-Stan 00-035 Environmental Handbook for Defence Materiel. Issue 6 Dated 28 Feb 2023, Part 5 Mechanical Environments, Section 8 – Deployment on Rotary Wing Aircraft, or equivalent standard.

2.2.2 Def-Stan 00-051 Environmental Management Requirements for Defence Systems. Issue 2 Dated 28 Nov 2021.

2.2.3 Def-Stan 00-056 Safety Management Requirements for Defence Systems. Issue 8 Dated 6 Mar 2023.

2.2.4 Def-Stan 05-135 Avoidance of Counterfeit Materiel. Issue 2 Dated 14 July 2019.

2.2.5 AQAP 2110 Edition D Version 1 NATO Quality Assurance Requirements for Design, Development and Production.

2.2.6 DEFCON 627 Requirements for Certificate of Conformity.

2.2.7 DEFSTAN 05-061 Part 1 Issue 7, Quality Assurance Procedure Requirements – Concessions

2.2.8 RA4814 Occurrence Reporting MRP 145.A.60

2.2.9 RA4815 Maintenance Procedures and Safety and Quality Policy MRP 145.A.65

2.3 The System shall have a Certificate of Conformity in accordance with DEFCON 627.

2.4 The System shall be compatible with stated Night Vision Goggle frames.

2.5 The System shall have a minimum Figure of Merit (FOM) of 2200.

2.6 The System shall be White Phosphor.

2.7 The System shall have a max Halo of 0.95 mm.

2.8 The System shall be capable of autogate response of 0.2 seconds to minimise blooming.

2.9 The System shall operate within environmental limits of minus 10°C to plus 40°C.

2.10 Documentation including: Publications provided with the system; functional testing to be carried out by user; scheduled maintenance requirements; maintenance and repair arrangements, including applicable warranty.

2.11 The System shall be able to be Codified by the authority in accordance with DEFCON 117.

3. Technical Documentation

3.1. The contractor shall provide the following technical documentation:

3.1.1. Publications provided with the system, single copy.

3.2. A Certificate of Design for each delivered Image Intensifier Tube which certifies that the system meets the requirements detailed within this SoR, along with any Limitations or Exceptions.

ANNEX A – Puma 4G+ White Phosphor Image Intensifier Tubes System Requirements

ID	System Requirement	Priority	Threshold Measure of Effectiveness (MoE)	Objective MoE	Remarks
IIT_SR_1	The System shall be provisioned in the stated numbers.	Key	Total quantity 60 (sixty) 4G+ White Phosphor Image Intensifier Tubes, Part No XW3240AE.	As Threshold.	
IIT_SR_2	The system shall be compliant against the stated standards, or Alternative Means of Compliance provided.	1	- Def-Stan 00-035 Environmental Handbook for Defence Materiel. Issue 6 Dated 28 Feb 2023, Part 5 Mechanical Environments, Section 8 – Deployment on Rotary Wing Aircraft, or equivalent standard. - Def-Stan 00-051 Environmental Management Requirements for Defence Systems. Issue 2 Dated 28 Nov 2021. - Def-Stan 00-056 Safety Management Requirements for Defence Systems. Issue 8 Dated 6 Mar 2023 - Def-Stan 05-135 Avoidance of Counterfeit Materiel. Issue 2 Dated 14 July 2019	As Threshold.	
IIT_SR_3	The System shall have a Certificate of Conformity in accordance with DEFCON 627.	1	As Requirement.	As Threshold.	
IIT_SR_4	The System shall be compatible with stated Night Vision Goggle frames.	Key	Fenn NG700+.	As Threshold.	
IIT_SR_5	The System shall have the minimum stated Figure of Merit (FOM).	Key	2200.	As Threshold.	

IIT_SR_6	The System shall be White Phosphor.	Key	As requirement.	As Threshold.	
IIT_SR_7	The System shall have the stated max Halo.	1	0.95 mm	As Threshold.	
IIT_SR_8	The System shall be capable of stated autogate response.	1	0.2 seconds	As Threshold.	
IIT_SR_9	The System shall be capable of operation in the Air System temperature operating environment for the Aviation Support.	1	Minus 10°C to plus 40°C.	As Threshold.	
IIT_SR_10	The System shall be provided with stated documentation.	2	Minimum of: - Publications provided with the system. - Any Functional testing to be carried out by user; - Any Scheduled maintenance requirements; - Any Maintenance and repair arrangements including applicable warranty.	As Threshold.	
IIT_SR_11	The System shall be able to be Codified by the authority.	1	Provision of source data to enable codification, for example product data sheets including Part Numbers.	As Threshold.	