

# IMAGE INTENSIFIER TUBE XR5™

**PHOTONIS**  
EXOSENS GROUP

**PHOTONIS IS THE LEADER IN DESIGN AND MANUFACTURING OF STATE-OF-THE-ART IMAGE INTENSIFIER TUBES FOR MILITARY AND COMMERCIAL APPLICATIONS**

The XR5 Image Intensifier Tube (IIT) represents the technological standard for night vision and is available in a variety of inverting and non-inverting formats for existing and new optical systems.

A prominent feature on the XR5 is the integrated Auto-Gated power supply, facilitating operations under dynamic lighting conditions. The XR5 IIT can suit a variety of environments, under low light levels.



**TYPICAL FOM 1600**



**AUTO-GATED  
INTENSIFIER TUBE**



**OPERATIONS IN DIFFERENT  
FIELD CONDITIONS**



**GOOD PERFORMANCES AT  
LOW LIGHT LEVELS**

*\*Detection, Recognition, Identification*

## TECHNICAL SPECIFICATIONS

|                        | MINIMUM | TYPICAL | MAXIMUM | UNIT  |
|------------------------|---------|---------|---------|-------|
| FOM (Figure Of Merit)* | 1472    | 1600    | •       | •     |
| Signal-to-Noise Ratio  | 23      | 25      | •       | •     |
| Limiting resolution    | 64      | 68      | •       | lp/mm |

### FAST AUTO-GATING DATA

|                                      |    |     |     |       |
|--------------------------------------|----|-----|-----|-------|
| High Light Level resolution (200 lx) | 55 | •   | •   | lp/mm |
| Response time                        | •  | 0,2 | 0,4 | s     |
| Rise time Off-to-On                  | •  | 07  | 0,9 | s     |
| Input current                        | •  | 25  | 30  | mA    |

### OTHER TECHNICAL DATA

| Phosphor                                   | P43 - green (also available in P45 - white) |      |          |                       |
|--|---|------|----------|-----------------------|
| Operational life time                      | 10.000                                      | •    | •        | hours                 |
| Halo (with 0,35mm input spot)              | •   | 0,85 | •        | mm                    |
| Gain at $2 \times 10^{-5}$ lx              | 10.000                                      | •    | 18.000   | cd/m <sup>2</sup> /lx |
| (Gain at $2 \times 10^{-6}$ fc)            | (31.416)                                    | •    | (56.550) | fL/fc                 |
| Max. Output Brightness (MOB)               | 4   | •    | 17       | cd/m <sup>2</sup>     |
| (Max. Output Brightness)                   | (1,2)                                       | •    | (4,9)    | fL                    |
| Equivalent Brightness Illumination (E.B.I) | •   | 0,15 | 0,25     | μlx                   |
| Weight (ANVIS)                             | •   | 70   | 75       | g                     |
| Shock resistance                           | 500   | •    | •        | g's                   |

Photonis, worldwide night vision expert for more than 85 years



ITAR FREE



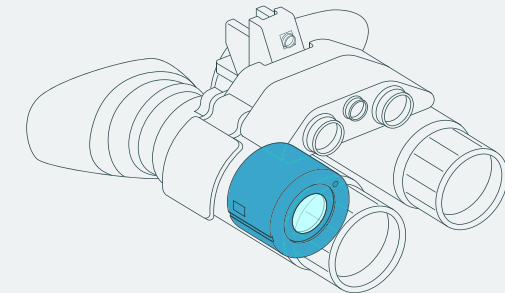
PHOTONIS LEGACY IMAGE INTENSIFIER TUBE



MADE IN EU



NV SALES REPRESENTATIVES ALL OVER THE WORLD



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**EXOSENS**  
REVEAL THE INVISIBLE

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