

## HD 1400 Image intensifier

HD 1400 is image intensifier assembly, 25mm. Equivalent label XX2500.

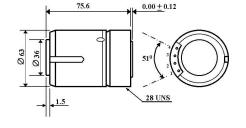
HD 1400 consists of a single module containing a microchannel electron multiplier as the primary gain mechanism. The assembly employs an S25 photo-cathode with an extended red response, an aluminized phosphor and a power supply. The power supply operates in conjunction with an external gain control circuit. It incorporates automatic brightness control (ABC) to provide a constant output image brightness as light levels varies. The power supply also provides bright source protection (BSP) to guard the tube against exposure to high levels of light. The assembly is encapsulated within a hard surface insulating sleeve with electrical contact

| Performance                 | Unit      | Min. | Max.  |
|-----------------------------|-----------|------|-------|
| Cathode sensitivity 2856°K  | μA/lm     | 300  |       |
| 800 nm                      | mA/W      | 20   |       |
| 850 nm                      | mA/W      | 15   |       |
| Magnification               |           | 0.96 | 1.04  |
| Signal-to-Noise ratio       |           | 3.2  |       |
| EBI                         | μlux      |      | 0.20  |
| Luminous gain at 2x10⁻⁵ lux | Cd/m²/lux | 9600 | 23000 |
| Supply current              | mA        |      | 32    |
| Output uniformity           |           |      | 2:1   |
| Limiting resolution         | lp/mm     | 32   |       |
| MTF at 2.5 lp/mm            | %         | 90   |       |
| 7.5 lp/mm                   | %         | 60   |       |
| 15 lp/mm                    | %         | 25   |       |
| Photocathode diameter       | mm        | 25   |       |
| MTTF                        | hours     | 2500 |       |

| Picture quality |   |    |     |  |
|-----------------|---|----|-----|--|
| Size (µm)       | I | II | 111 |  |
| 381-500         | 0 | 0  | 0   |  |
| 301-380         | 0 | 1  | 2   |  |
| 231-300         | 0 | 3  | 6   |  |
| 150-230         | 1 | 6  | 10  |  |
| 70-150          | 3 | 15 | 20  |  |









Should you have any further enquires, please do not hesitate to contact us at **office@yugoimport.com** All the data given in the brochure are for information purposes only. The final configuration and/or technical specification are defined for each contract individually.