



VS4-1845

Generation III or II Image Intensifier Assembly



Features:

- ✓ GEN III High Resolution Intensifier
- ✓ 64 Linepairs/mm Resolution
- ✓ Over 80,000 Luminous Gain
- ✓ 1/2" or 2/3" Camera Format
- ✓ 1" Camera Format Optional
- ✓ 3ns Gating Optional
- ✓ C-Mount In and Out
- ✓ F-Mount Output Optional
- ✓ Computer Control of Gain and Gate Functions
- ✓ Built-in Bright Input Protection Circuit
- ✓ GEN II Versions available

General Description

The **VS4-1845** is a high resolution high gain Generation III Microchannel Plate (MCP) Image Intensifier optically coupled using a high efficiency lens for use in very low light quantitative imaging. The **VS4-1845** is coupled to a Digital or Analog video camera via a C-Mount lens output. F-Mount output is available as an option. The output format is fixed for either a 1/2", 2/3" camera. Optional 1" camera support available. The use of the special Generation III Image Intensifier in the **VS4-1845** results in quantum efficiency three times over other intensifiers in the visible spectrum.

The **VS4-1845** is designed for use in applications where input to output intensity linearity is required for rigorous quantification of input intensity. Over-exposure protection is included.

The **VS4-1845** is pre-adjusted for maximum gain and calibrated for use with a Windows™ operated control. A GUI allows the user to adjust the Gain, Gate and Gate Delay. The **VS4-1845** comes complete with instruction manual, intensifier control software (for Windows™), cables, and power supply ready to operate.

Specifications:

- Type: **GEN III MCP Image Intensifier**
- Input Window (Visible): **Glass**
- Input Window (UV): **Quartz**
- Active Area: **18 mm**
- Photocathode Selections:
 - Standard – **450 to 900nm**
 - Optional Extended Blue – **350 to 900 nm with >50% peak QE**
 - Optional GEN II UV – **200 to 700nm**
- Output Window: **Fiber Optic**
- Phosphor: **P- 43**
- Peak Output: **560 nm**
- Gain Range: **2,500 to 80,000 FL/FC**
- Gating Range: **50ns to 1ms (in 20ns increments)**
- Gating Delay Range: **0ns to 2ms (in 20ns increments)**
- Optional Gate Range: **3ns to DC (in 1ns increments)**
- Resolution: **64 linepairs/mm**
- Output Format: **8mm for ½” camera**
11mm for ⅔” camera
16mm for 1” camera
- Geometric Distortion: **<1%**
- Shading: **<10%**
- Control: **Via Computer (RS-232) with Windows™ Operating System**
- Life: **10,000 hours**

Mechanical:

- Dimensions: **90 x 73 x 99 mm**
- Weight: **3 lbs**
- Input Lens Mount: **C-Mount**
- Camera Mount: **C-Mount**

Electrical:

- Input Voltage: **12VDC (AC/DC Adapter included)**
- Input Power: **<10 Watts**

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