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 ¾” 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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