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Video Switch Assembly Model VSA-103

General Description

The Video Switcher Assembly is designed for use in a light armored vehicle. Its mission is to switch various video images between monitors operated by the troops. Each monitor shall accept multiple video sources, selectable by the troops. This includes: two channels for the remote weapon station day and night sights, plus two spare channels for future Driver Vision Enhancement DVE, and two spare channels for future feeds, for a total of six channels. The monitor shall be capable of displaying RS-170A images from the sources identified above. The six output channels accept composite NTSC or PAL video from up to six sources. Each of the six multiplexers can select any of six independent video sources. Each operator is required to have a Remote Video Selector from which they can select any of the six video sources for viewing on their monitor.

Technical Specification

Shock MIL-STD-810E Method 516.4, 1-3.10
 Vibration MIL-STD-810E Method 514.4, 1-3.4.7, Category 8, Ground Mobile
 Altitude MIL-STD-810E method 500.3, Procedure I, II
 Fungus MIL-STD-810E Method 508.4 Procedure I
 EMI MIL-STD-461D for Part 4, Class 3, Tracked and
 Wheeled Vehicles for CE102, CS101, CS114, CS116, RE102, RS103
 Sea and salt spray Shall be met as specified in MIL-STD-810E Method 509.3
 Procedure I

Electrical Requirements:

Power Supply: Meets ripple, surge, cranking disturbances and spike per MIL-STD-1275 fault free condition.

