

Thru Site Video Recorder Common (TSVRC) Thru Site Video (TSV)



Training Category/Level Utilized:

Armor/Level 3

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC at Fort Knox, Fort Hood, Fort Bliss and Fort Carson.

Purpose of Trainer:

The Thru Site Video Recorder Common (TSVRC) is an upgrade to the TSVR System (NSN: 5836-01-559-2503) to make it compatible with the Bradley ODS Fighting Vehicle. In addition, the TSVRC system replaces the spinning hard drive based Vehicle Recording Unit (VRU) of the TSVR System with a 4 channel SD Card Media recorder (VRU-4SD). With the upgrade to a solid state media recorder afforded by the SD card media, the TSVRC system also eliminates the need for the Vibration Cage Assembly (VCA) of the TSVR System.

Functional Description:

The TSVRC system consists of the following components:

- a) Vehicle Recording Unit (VRU-4SD) - The VRU houses a 4 channel SD Card A/V Recorder. A total of 4 removable SD media card ports are provided with output ports to allow the unit to be used as a playback device. Download capability of all files to a PC via USB is also provided.
- b) Universal Through Site Camera (TSC) - The TSC is an aluminum housed camera with beam splitter optics to allow images to be captured through the gun sight optics onboard the vehicle. The TSC mounts on to the M1 Series GPS-E or GAS (using the GAS adapter). The TSC allows the commander or gunner to see through their sights while the embedded camera captures video from the sight.
- c) Low Light Crew Cameras (CRW-CAM) - Two (2) black and white Low Light Crew Cameras with infrared illuminators capture crew coordination with-in the vehicle cabin.
- d) External Audio Adapter (EAA) - The External Audio Adapter connects between the vehicle communications J Box and the crew communication helmet to capture audio from the radio and intercom for recording on the VRU.

- e) CDU Video Adapter cable (CDU), - The CDU Video Adapter Cable is a “T” adapter that taps into the read panel of the Commanders Display Unit on the M1A2SEP and allows the capture of CITV video for recording on the VRB.
- f) TIS Video Adapter (TIS) - The TIS Video adapter cable captures TIS video from the M1A2SEP vehicle.
- g) M1 Gunners Aux Sight Camera Adapter (GAS)- The Gunner Aux Sight Camera adapter allows the Through Sight Camera to mount on the Gunners Aux Sight (GAS)
- h) M1 Loaders Camera Bracket (MCB)- Camera bracket for the M1 Loaders Crew Camera.
- i) M1 Gunners Camera Bracket (SGB)- Camera bracket for the M1 Gunners Crew Camera
- j) M2 Dual Camera Bracket (DCB)- M2 Dual Crew Camera Mounting Bracket
- k) M2 GPS Adapter Ring (M2C) – M2 GPS Through Sight Camera Adapter Ring
- l) M2 Aux Sight Adapter Ring (ASA)- M2 Aux Sight Through Sight Adapter Ring
- m) Bradley Floor Plate Power Cable (C121-20)- Bradley ODS Floor Plate Power Cable
- n) Hand Held Monitor (HHM) - The Hand Held Monitor connects to the AVB and provides a means to position crew cameras prior to a recording evolution.

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements: None.

Power Requirements:

Technical Characteristics

- Current draw < 5 amps @ 28 volts
- Four channel Video/Audio Approximately 1 hour per GB subject to the record/playback complexity of the scene
- Remote Control Unit Operational (from 1/2 foot to 3 feet)
- USB data transfer rate 120mb per second
- Operating Temperature -10°C to 40°C

Applicable Publications:

TM 17-6920-906-10

Reference Publications:

(Information not available)

Training Requirements Supported:

Live fire or laser based training.