

IPUR

CMUR

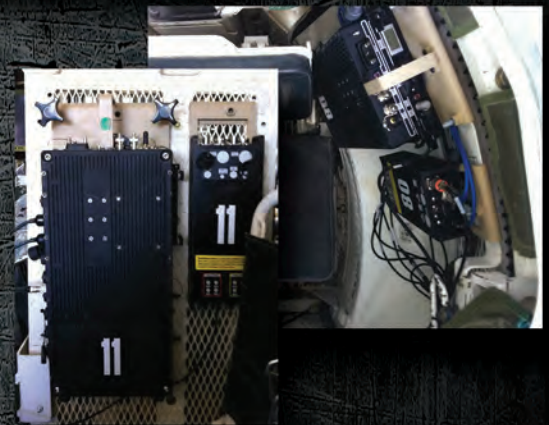
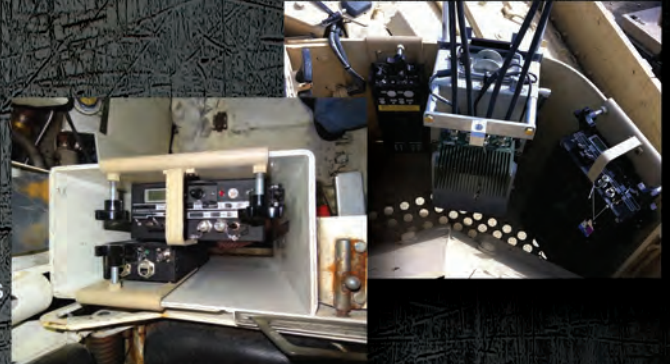
The Crew Module Unit Recorder, CMUR, is an advanced 8 channel audio/video recording device. The CMUR can simultaneously record up to eight channels of video, one channel of audio and has the capability to monitor dual 1553 busses. The CMUR is equipped with a Global Positioning System that captures the vehicle's position location information.

The CMUR is compatible with a wide range of combat vehicles to include M1 variants, M2 variants, and STRYKER vehicle variants. The system also supports a host of wheeled vehicles and their fire control platforms. The system can be installed in less than 30 minutes and does not interfere with the crew-members duties to operate the vehicle.

The CMUR does not require a fixed infrastructure and can be used to evaluate training exercises whether in the motor pool or on a live-fire range. Once the crew completes the exercise, the recorded data can be reviewed by removing the removable solid state drive and with the use of an AAR Laptop. The evaluator or trainer can provide the crew with valuable feedback by identifying strengths and weaknesses during the exercise. This will aid in improving the overall readiness of the crew.

8 CHANNEL ENCODER

The 8-Channel Encoder processes video received from the vehicle and the crewcameras. The encoder processes the analog feeds from the individual cameras and maintenance ports and converts them into a digital stream. These streams are then transmitted to the CMUR for storage on the removable solid state hard drive.



INTEGRATED PLAYER UNIT RECORDER

IPUR

BMUE

The Bustle Module Unit Enhanced (BMUE) when used with the CMUR is designed to provide real-time transmissions of up to 8 channels of video, each at a minimum resolution of 640 X 480 pixels. The BMUE is also capable of transmitting 1 channel of audio which includes the vehicle tactical radio and crew communications audio.

The BMUE receives the audio, video, and 1553 data from the CMUR wirelessly, and transmits the data to the available Access Point Radio which transmits the data to the Range Operation Center. The BMUE GPS receives the vehicle position location coordinates, which is also transmitted to the Access Point Radio. The BMUE has an integrally rechargeable 15VDC lithium-ion battery that provides up to 8 hours of continuous operations.



CMUR SPECS:

DIMENSIONS: 19.5IN L X 4.5IN H X 9.5IN W
WEIGHT: 16.7 LBS
MATERIAL: BLACK ALUMINUM
CPU PROCESSOR: INTEL CORE DUO
CPU DATA: 1553 & GPS RECORD CAPABLE
MEMORY STORAGE RAM: 4GB
LAN: 8 PoE, 48 VDC, 802.3af (MODIFIED); 350mA EACH
DISPLAY: FLAT PANEL TFT LCD SCREEN
DISPLAY BRIGHTNESS: 240CD/M2
RESOLUTION: 800 X 480 VGA
VIDEO/AUDIO: 8 SIMULTANEOUS RECORDINGS
EVENT RECORDING: PRE/POST @ 1 SEC INCREMENTS
RECORDING FRAME RATE: MAX 30FPS, PER CHANNEL
MAX RESOLUTION: 1080P OR HIGHER (LIMITED BY CAMERA)
RECORD TIME: 6 HRS (8CH/640X480/15FPS)
BATTERY: CR2032
SOFTWARE: WINDOWS 7 PROFESSIONAL, 32 BIT
STORAGE1: INTERNAL FIXED SSD SATA 32GB
STORAGE2: REMOVABLE SSD SATA 128GB
SYSTEM I/O USB: USB 2.0 (1 EACH)
SYSTEM I/O SERIAL: RS-232 (1 EACH)
SYSTEM I/O AUDIO: LINE-IN/SPEAKER OUT
SYSTEM I/O AUX POWER: 12 VDC OUTPUT @ 500mA MAX
POWER VOLTAGE: 16-32VDC
GPS TYPE: GARMIN 18X SERIES

8 CHANNEL ENCODER SPECS:

DIMENSIONS: 14IN L X 3IN H X 4.5IN W
WEIGHT: 5.6 LBS
MATERIAL: BLACK ALUMINUM
LAN: 2 PoE, POWERED ETHERNET INPUTS
VIDEO/AUDIO: 4 CHANNELS: CAMERA AND POWER / 4 CHANNELS: VIDEO INPUT ONLY
RECORDING FRAME RATE: MAX 30FPS, PER CHANNEL
MAX RESOLUTION: 1080P OR HIGHER (LIMITED BY CAMERA)
BATTERY: CR2032
SYSTEM I/O AUDIO: ONE LINE-IN (OPTIONAL ADDITIONAL INPUT)
POWER VOLTAGE: 48 VDC PoE

BMUE SPECS:

DIMENSIONS: 18.5IN L X 8IN H X 10IN W
WEIGHT: 30 LBS
MATERIAL 1: TAN ALUMINUM
MATERIAL 2: FIBERGLASS/GRAY BATTERY BOX
BATTERY: 15 VDC LITHIUM-ION
VOLTAGE RANGE: 30V MODE: 24 TO 33.6V, 15V MODE: 12 TO 16.8V
MAXIMUM DISCHARGE: 30V MODE: 6.0A CONTINUOUS, 15V MODE: 12.0A CONTINUOUS
BATTERY WEIGHT: 2.92 LBS
BATTERY OPERATING TEMP: -32°C TO 60°C
BATTERY STORAGE TEMP: -32°C TO 60°C
POWER VOLTAGE: 15 VDC WITH LITHIUM-ION BATTERY
GPS: GLOBAL SAT MR-350-P SERIES
FR FREQUENCIES: 802.11 a/b/g/n
MAX RF POWER: 250mW

INTEGRATED PLAYER UNIT RECORDER