



# 2744

## Airborne Compact Flash Recorder

### Features

- Ruggedised, Suitable for Aircraft and Ground Vehicles
- Front Loading CF Video/Audio Recorder/Player
- Fully Compatible with Existing Britannia VCR Installations
- Uses Compact Flash Memory Cards
- Fits In A Standard ½ ARINC Dzus Rack
- Shock, Vibration, Water & Dust Resistant
- NVIS Illumination (Option)
- Extended Temperature Range
- Over 5 Hrs Recording Time (12GB Card)

### Description

The all new 2744 Airborne CF Recorder/Player will record and play back high quality video and audio and will continue to record whilst playing back previously recorded sequences. It's the ideal upgrade path for the widely installed 2604 & 2640 Mini DV based Airborne VCRs used by Police and Rescue helicopters. The 2744 can replace an existing Mini DV recorder to provide a tape-less, fully digital, high quality recording, with the added flexibility of playback built-in.

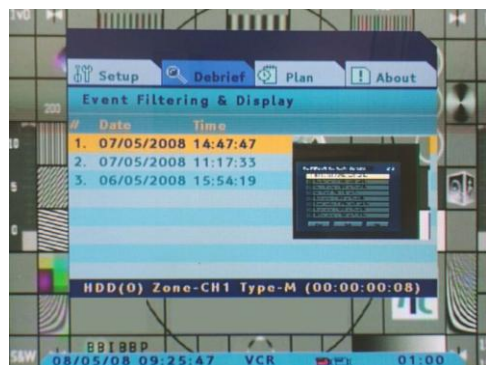
Using the latest high speed, high capacity CF cards, the 2744 will playback the video actually recorded on the removable memory card itself, enabling operators to check that the system is operating correctly as part of pre-light checks. Normally, other video recorders use a separate recording on an internal hard drive and the CF card has to be removed and replayed on a PC.

Twin audio tracks enable stereo recording of radio and intercom commentaries. The front panel is hinged to allow access for CF card exchange and ejection. An internal light assist the operator during media changes at night. The front panel is 'O' ring sealed against the recorder body to prevent water and dust ingress.

The unit records the video and audio onto the memory card as an MPEG2 bit stream, providing both the highest video quality and reliability available. Unlike "wrapped" formats which will lose all of the data if the file becomes corrupt, the 2774 is highly tolerant of video switching glitches and power failures and will not lose the whole of the recorded video file.

The tactile keyboard has legends for daytime use and is fully backlit for night time operation. An optional NVIS filter can be installed for NVG compatibility. Both 28vdc or 5vac backlight options are available.

The 2744 incorporates comprehensive on-screen graphics as shown below:



## Options

- NVIS compatible illumination
- MIL spec. power supply
- 28vdc or 5vac backlight

## Accessories

- 2657 MultiDeck controller
- 2656 Remote controller
- 2630 Hand-held remote controller

## Specifications

### Physical

<b>Overall Size:</b>	146mm (W) x 76mm (H) x 170mm (D)
<b>Weight:</b>	<1000gms
<b>Mounting:</b>	½ ARINC, 4 dzus fasteners

### Power

<b>Normal Operation:</b>	28vdc, 420mA (optional 12vdc version)
<b>With Heaters On:</b>	28vdc, 1200mA
<b>Backlight Supply:</b>	28vdc, 43mA (optional 5vac, 110mA)

## Environmental: Designed to Meet

<b>EMC:</b>	Def. Stan 59-41 Class A tests, 14KHz – 1GHz DRE01 – E field emissions DRE02 – H field emissions DRS01 – H field susceptibility DRS02 – E field susceptibility
<b>Temperature:</b>	Def. Stan 00-35, (Part 3)/2 test CL1, CL4. -25°C to +60°C
<b>Shock:</b>	Def. Stan 00-35, (Part 3)/1 test M12s
<b>Vibration:</b>	Def. Stan 00-35, (Part 3)/2 test M1

## Recording Specification

### Video

<b>Supported Standards:</b>	PAL, NTSC
<b>Compression:</b>	MPEG-2
<b>In/Out Levels:</b>	1 vpp 75 Ω
<b>Digitising Resolution (PAL):</b>	8 bit Y/UV, 720 pixels x 576 lines
<b>Power-up to Record Time:</b>	<2 seconds
<b>Recording System:</b>	Solid state, digital, MPEG-2
<b>Recording Media:</b>	Compact flash card
<b>Recording Time:</b>	Variable, 24min/GB

### Audio

<b>Number of Channels:</b>	2
<b>Compression:</b>	MPEG 1 Level 2
<b>Input Level:</b>	Audio line

## Input/Output Connectors

<b>Video In:</b>	BNC
<b>Video Out:</b>	BNC
<b>Stereo Audio In/Out:</b>	10 pin LEMO type 2 B
<b>Power:</b>	50 pin LEMO type 2 B
<b>Aux Out:</b>	4 pin LEMO type 1 B
<b>Remote/ MultiDeck:</b>	19 pin LEMO type 2B