



mission equipped

AIRCRAFT VIDEO/VGA DISPLAYS

# AVCR-1030

## RUGGEDISED S-VHS VIDEO RECORDER



This product data sheet describes the ruggedised Super VHS Video recorder which has been designed to give outstanding results when used with today's high performance FLIR and TV cameras. The system offers high resolution, high quality video and audio recording and playback.

### FEATURES INCLUDE

- Specially designed DZUS mounted remote control offering full functionality including playback mode.
- Confirmation lights on remote control unit to show Record status.
- System automatically forwards to clear tape after reviewing pre-recorded footage therefore ensuring valuable evidence is not destroyed.
- Custom designed Anti-Vibration tray
- Interference free freeze frame capability
- Horizontal resolution of >400 lines
- Automatic video head cleaning
- 4 channel audio recording (selectable)
- Automatic fast forward to start of clear tape.
- Full remote control, either through separate panel or integrated into existing surveillance system controls
- Highly reliable & durable tape transport system
- Compact, space saving design
- Y/C and Composite Video inputs
- Available in PAL and NTSC versions

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# Specifications

## General

Power Source 28VDC  
 Power Consumption 35W  
 Operating Temperature +5 °C to +40 °C (+41 °F to +100 °F)  
 Operating Humidity 35% - 80%  
 Mass: Approx. 7.4kg (16.3lbs)  
 Dimensions: (H x W x D) 270mm x 131.5mm x 365.5mm  
 (10 5/8" x 5 3/16" x 14 3/8")

## System

Television Format CCIR Standard PAL Colour signal (652 lines, 50 fields) Or EIA Standard, NTSC Colour Signal (525 lines, 60 fields)  
 Video Recording System Two rotat heads, helical scanning system  
 Modulation system Luminance: FM azimuth recording  
 Colour Signal Converted subcarrier phase shift recording  
 Audio Track 2 tracks (hi-fi Audio), 2 tracks (Normal)

## Tape Transport

Tape Format S-VHS/VHS tape  
 Tape Speed PAL 23.39mm/s NTSC 33.35 mm/s (1 5/16 ips)  
 Recording Time Dependant on tape stock PAL 3 hours max- NTSC 2 hours Max  
 FF/REW Time Approx. 2.5 min. with NV-T120 tape

## Video

### Input Level

S-Video In (4P) Y: 1.0 Vp-p 75 ohms, unbalanced  
 PAL C: 0.286 Vp-p, 75 ohms, unbalanced  
 NTSC C: 0.286 Vp-p 75 ohms, unbalanced  
 Line In (BNC) 1.0 Vp-p, 75 ohms, unbalanced

### Output Level

S-Video Out (4P) Y: 1.0 Vp-p 75 ohms, unbalanced  
 PAL C: 0.286 Vp-p, 75 ohms, unbalanced  
 NTSC C: 0.286 Vp-p 75 ohms, unbalanced  
 Line Out (BNC) 1.0 Vp-p, 75 ohms, unbalanced  
 Horizontal Resolution S-VHS: more than 400 lines (monochrome/colour)  
 VHS: 240 lines (colour)  
 Signal-to-noise-Ratio VHS: More than 75 dB (B/W)  
 PAL: More than 45 dB (colour)  
 NTSC: More than 46 dB (colour)

## OTHER PRODUCTS

### AIRCRAFT VIDEO/VGA DISPLAYS

- » 4" Display
- » 6.5" Display
- » 8.4" Display
- » 9" CRT Display
- » 10.4" Display
- » 12.1" Display
- » 15" Display
- » 18" Display
- » 20.1" Display

### EMBEDDED PC SMART DISPLAYS

### AIRCRAFT VIDEO RECORDERS

- » Hard Disk Digital Recorder
- » Compact Flash Recorder
- » SHVS Recorder

### MOVING MAPS

### DIFFERENTIAL GPS

- » Differential GPS (DGPS) Standard & High Performance System

### VIDEO / RADAR CONVERTERS

- » RDR 1500 Radar Converter
- » VGA To Video Converter
- » VGA To STANAG 3350 Converter

### AIRCRAFT

### INSTALLATION / BRACKETS

- » NVG Cockpit Equipment Modifications
- » Camera Brackets & Equipment Consoles

### MICROWAVE LINKS / DATALINKS

- » Long Range Automated Steerable Tracking Datalink System
- » Low Cost Short Range Omni-Direction System

### CARGO HOOK CAMERA

### GPS SPLITTER / AMPLIFIER

### VIDEO DISTRIBUTION SYSTEMS



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## Specifications cont.

### Audio

#### Input Level

Line in (Phone) -8dBv, 47k ohms, unbalanced  
 Mic 3.5mm Phone) -60dBv, 47k ohms, unbalanced

#### Output Level

Line in (Phone) -8 dBv, 600 ohms, unbalanced  
 Audio Monitor (Phone) -0dBv, 600 ohms, unbalanced  
 Headphone (3.5 mm Phone) -60 dBv - - 20 dBv, 8 ohms unbalanced

Audio Frequency response 20 Hz - 20 kHz (hi-fi Audio)  
 50 Hz - 12 kHz (Normal PAL)  
 50 Hz - 10 kHz (Normal NTSC)

Dynamic Range 90 dB (hi-fi Audio)

### Configuration Options

Unit	Part Number
Airborne Video Recoder Pal	AVCR 1030P
Airborne Video Recorder NTSC	AVCR 1030N
Remote control unit DZUS mounted	PANL 1040
ARNIC anti-vibration mounting tray	AAVT 1030
NVG compatible illumination/filtering upgrade	AVCR 1030-NVG
Mating connector Kit (1 off each mating connector)	AVCR 1030-CONKIT
Interface control document/Installation drawing set	AVCR 1030-ICD
Ruggedised shipping/storage case	CASE 1030

### Remote Control Panel

The remote control panels allows full functionality to be operated from anywhere in the aircraft. Resume record automatically forwards to the next available blank tape space before switching to record mode, ensuring important pre-recorded footage is not being lost.

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