

WWW.SKYQUEST.CO.UK

PRODUCT DATA SHEET



SKYQUEST AVIATION

SPECIALIST EQUIPMENT FOR AIRCRAFT

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

AIRCRAFT VIDEO RECORDERS

- » Mini DV Recorder
- » 4 hour DV Recorder
- » 3 Hour DV CAM Recorder
- » SHVS Recorder
- » Hard Disk Digital Recorder

MOVING MAPS

- » EuroNav IV Generation (2nd RN6) System
- » Ground Base Tracking & Communication System

DIFFERENTIAL GPS

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

VIDEO / RADAR CONVERTERS

- » RDR 1500 Radar 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

PRODUCT DATA SHEET

RUGGEDISED S-VHS VIDEO RECORDER

Version:12.2003



AIRCRAFT VIDEO / VGA RECORDERS

RUGGEDISED S-VHS VIDEO RECORDER

ABOUT SKYQUEST AVIATION

Skyquest Aviation supply a range of airborne role equipment specifically designed to enhance the capability of surveillance aircraft. Products include GPS Based Moving Maps, Differential GPS Decoders, Microwave Tracking Systems, NVG Equipment & Services, Ruggedised Video Recorders and a range of Advanced Aircraft Monitors.

PRODUCT INFO

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.

Of interest to airborne surveillance users, the AVCR 1030 SVHS Video Recorder offers some useful features including:

- 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 therefor 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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General

Power Source: 28VDC
 Power Consumption: 35 W
 Operating Temperature: +5°C to +40°C (+41°F to +100°F)
 Operating Humidity: 35% - 80%
 Weight: Approx. 7.4 kg (16.3 lbs)
 Dimensions: (H x W x D) 270 x 131.5 x 365.5 mm (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 rotary 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 3hours 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:0.3 Vp-p, 75 ohms, unbalanced (Burst)
 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:0.3 Vp-p, 75 ohms, unbalanced (Burst)
 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)

Continued on next page.

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Audio

Input Level:

Line In (Phono): -8 dBv, 47k ohms, unbalanced
 Mic (3.5 mm Phone): -60 dBv, 4.7k ohms, unbalanced

Output Level:

Line In (Phono): -8 dBv, 600 ohms, unbalanced
 Audio Monitor (Phono): -0 dBv, 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 Recorder PAL	AVCR 1030P
Airborne Video Recorder NTSC	AVCR 1030N
Remote control unit DZUS mounted	PANL 1040
ARINC 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.