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TECHNOLOGY GROUP

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along with credit for buybacks and trade-ins.

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so your equipment works exactly as you specify.

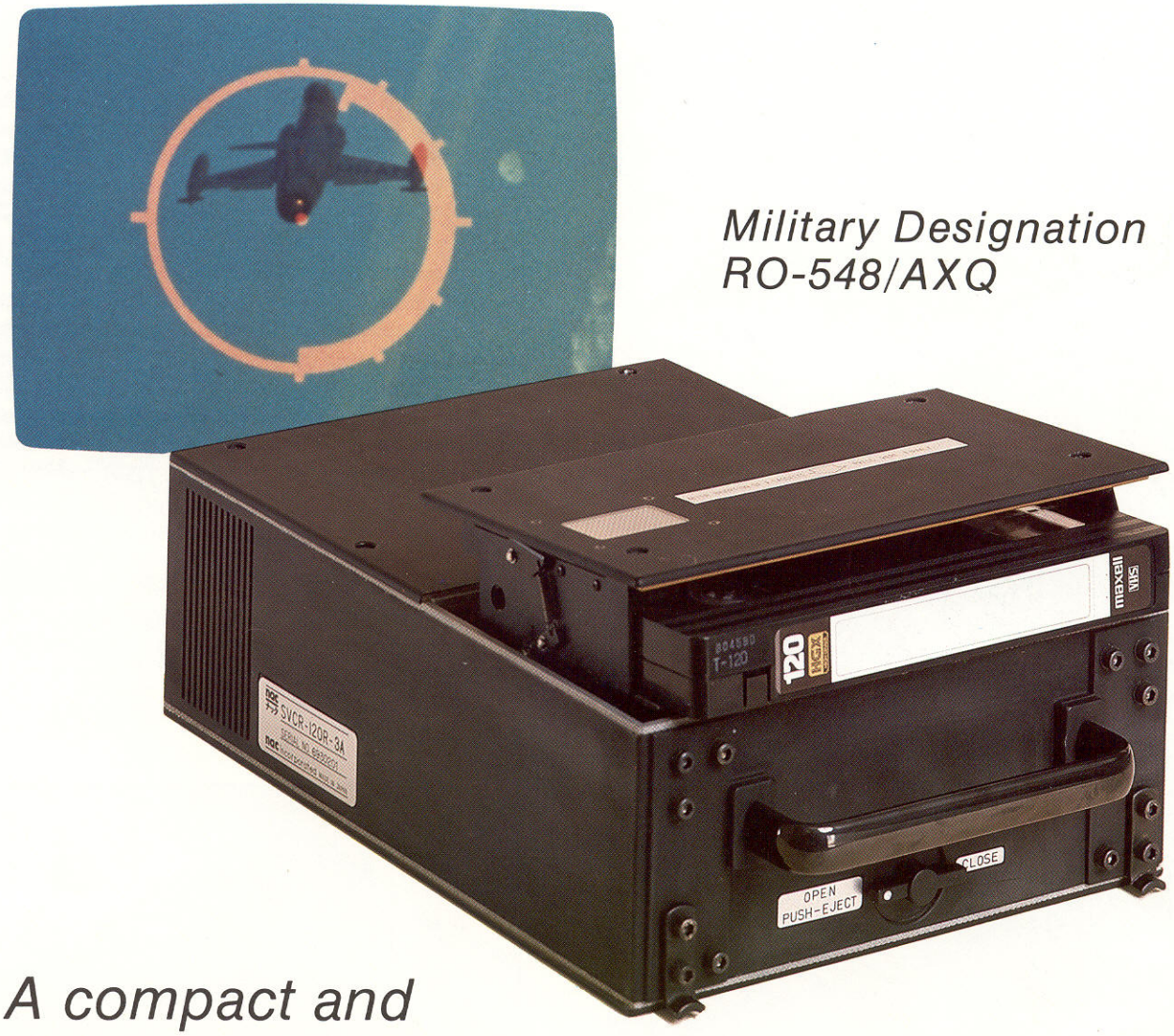
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SVCR
Airborne Video Cassette Recorder

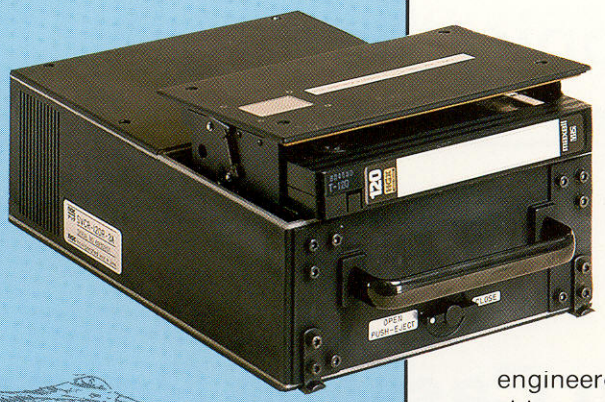


Military Designation
RO-548/AXQ

A compact and lightweight video recorder for rugged airborne military applications

the compact VHS video sy

nac Airborne



The SVCR-120R series recorder is engineered and manufactured exclusively for airborne video and PCM recording. The SVCR-120R uses only proven components that are tested to withstand the humidity, vibration and temperature common to the flight test or battlefield environment.

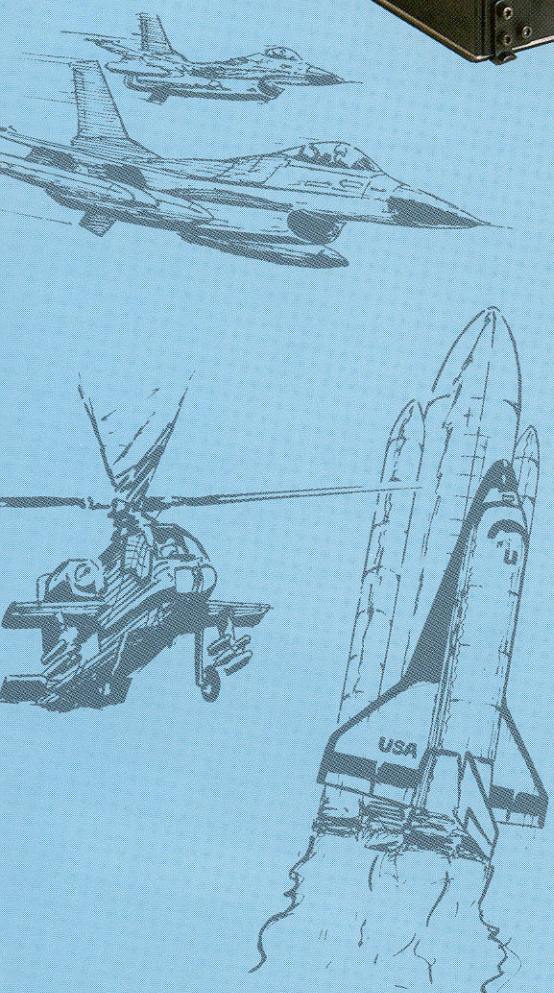
The use of standard VHS cassettes allows recording of HUD cameras, infrared sensors and multi-function displays for 2 full hours in color or black and white.

The SVCR-120R has been environmentally qualified and complies with MIL-STD-810C with tests performed by the U.S. Government and independent laboratories. Further evidence of its proven reliability has been verified by its selection for use as standard equipment on the U.S. Marine OV-10D aircraft and the TGM I.R. Imaging Maverick Captive Trainer. The SVCR-120R is now available for color recording (designated SVCR-120RC-A). This capability is available for existing black and white recorders which can be converted to color by exchanging plug-in circuit cards.

Configuration is controlled in accordance with MIL-STD-483 to insure maintainability and consistent environmental capabilities.

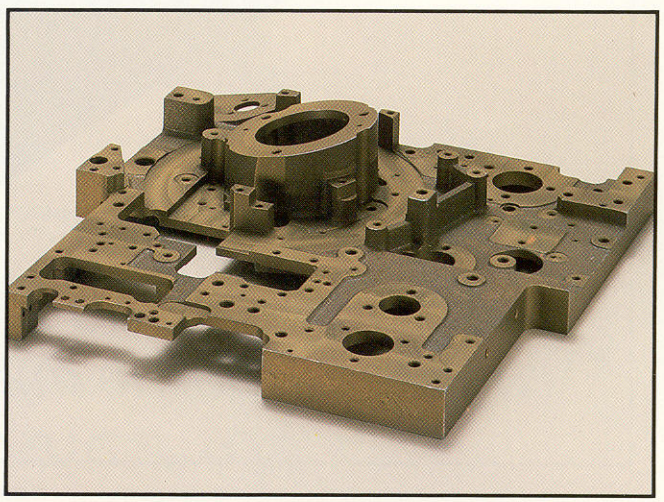
The photo below of the SVCR-120R mainframe is an example of its basic rugged design. This precisely tooled frame helps insure the system's complete product integrity.

In summary, the SVCR-120R has been designed and proven for its particular role in flight test and HUD camera recording, infrared sensors, and multi-functional display recording.



Hundreds of Flight Test Applications Including:

- B-1 Strategic Bomber
- Shuttle Orbiter Vehicle
- F-16 Fighter Aircraft
- A-10 Close Support Aircraft
- F-111 Bomber
- Maverick Missile System
- FLIR Pod
- F-18 Fighter Aircraft
- OV-10D Marine Corps
- SH-16F CV (ASWW)



Rugged Mainframe

system for military flight test recording

e Video Cassette Recorder VHS

Configurations

Model	P/N	Standard	Video Input	Audio Input
SVCR-120R-A	91-2001	EIA B&W	0.5V-2.0V p-p, 75 ohms	0.5V p-p, 30 Kilohms
SVCR-120R-2A*	92-2003	EIA B&W	0.5V-2.0V p-p, 75 ohms	8.0V p-p, 30 Kilohms
SVCR-120R-3A*	91-2005	EIA B&W	1.6V-6.4V p-p, 95 ohms	0.5V p-p, 30 Kilohms
SVCR-120R-EA*	91-2007	CCIR/Mono	0.5V-2.0V p-p, 75 ohms	0.5V p-p, 30 Kilohms
SVCR-120R-C*	91-2009	NTSC Color	0.5V-2.0V p-p, 75 ohms	0.5V p-p, 30 Kilohms
SVCR-120R-C-EA*	91-2010	PAL Color	0.5V-2.0V p-p, 75 ohms	0.5V p-p, 30 Kilohms

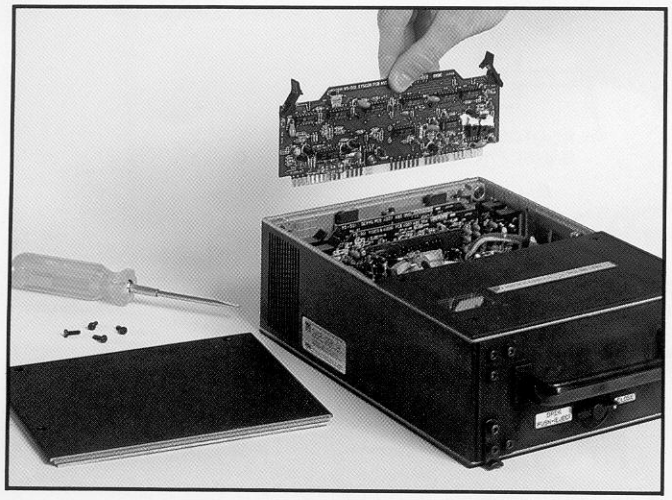
*Considered by the manufacturer to be qualified to the SVCR-120R-A on the basis of similarity to the SVCR-120R-A.

PERFORMANCE SPECIFICATIONS

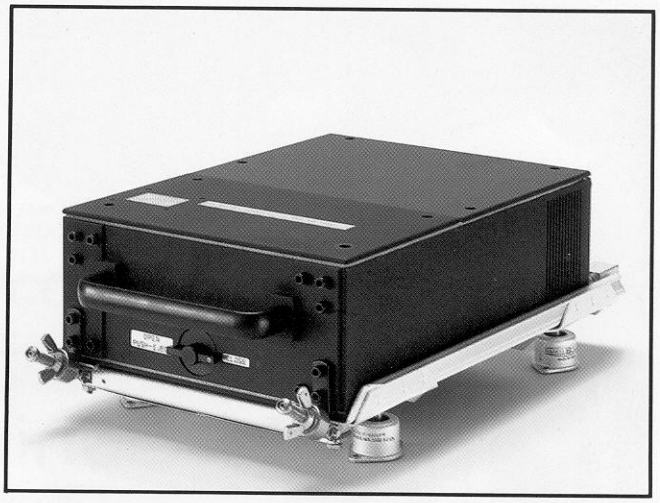
Format: VHS
Video Recording System: Rotary two-head helical scan
Recording Head: Video = 2, Audio = 2, Erase = 1, Control = 1
Video Signal System: 30 frames/second 525 lines or any other lines
Input Video Level: See configurations
Input Audio Level: See configurations
Power Sources: 28 V DC +4V -8V, 115 V AC, 400 cycles, 1 phase
Power Consumption: 28 V DC operation 25 Watts, 115 V AC heaters only 100 Watts
Power Requirements: MIL-STD-704B, per T&E Task Assignment 8-2-23S/2 Naval Avionics Center
Horizontal Resolution: More than 300 lines (B&W); 240 lines (NTSC) color
Signal-to-Noise Ratio: Better than 42 dB (B&W); 40 dB (NTSC) color
Record Time: 2 hours (T-120)
Tape Speed: 33.4mm/sec. (1.37 inch/sec.)
Tape Width: 12.7mm (1/2 inch)

ENVIRONMENTAL (MIL-STD-810C)

Operating Temperature: -40°C (with heaters) +55°C Continuous
+71°C Intermittent
Stowage Temperature: -62°C to +85°C
Temperature Shock: Method 503.1
Atmospheric Pressure: 50,000 ft.
Explosion-Proof: to 50,000 ft. Method 511.1, Procedure 1
Humidity: 10 days Method 507.1, Procedure 1
Salt Fog: 48 hours 5% salt solution, Method 509.1, Procedure 1
Vibration: Random Functional 5.3 G's RMS
Endurance 15.0 G's RMS
Gunfire 4000 to 6000 rounds per minute rate
Acceleration: Operational 9.0 G's, Structural 13.5 G's
Shock: Operational 15.0 G's 11 msec.
Crash Safety 40.0 G's 11 msec.
EMI: MIL-STD-461A/CE01, CE02, CE03, CE04, RE01, RE02, CS01, CS02, CS06, RS01, RS02, RS03, RS04
Including 200 MHz 110 msec. PW, 10% duty cycle at 100 V/M
1.2 GHz, 5.6 and 9.1 GHz 2 msec. PW, 1 KHz PRR at 100 V/M



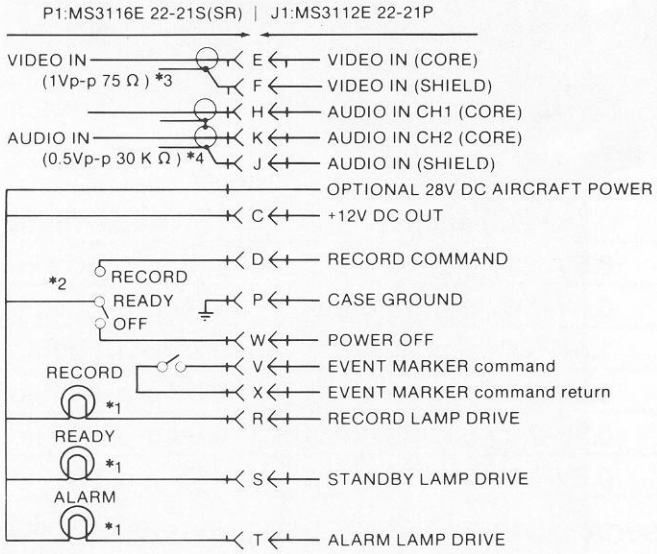
Simplified Maintenance



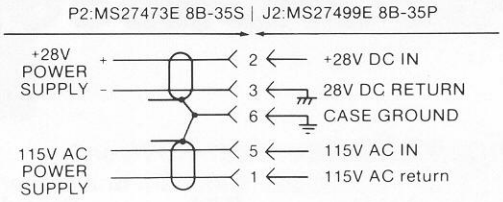
Optional Shock Mount Tray

Pin Function Diagrams

Remote Control Circuit †



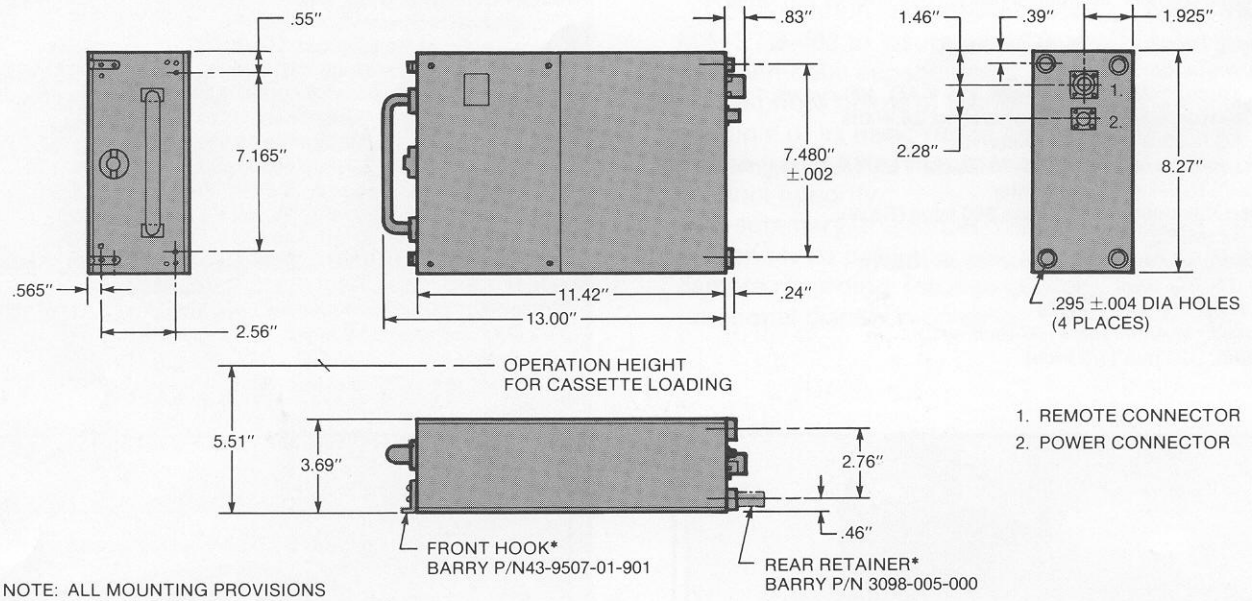
Power Supply Connection



*1 LAMP: 28 or 12V DC 0.15A max or LED
*2 SWITCH: SPDT (ON-OFF-ON)
*3 SVCR-120R-3A 3.2Vp-p, 95 Ω
*4 SVCR-120R-2A 8.0Vp-p, 30K Ω

† OPTIONAL CONTROL BOXES TO SUIT SPEGIFIC REQUIREMENTS ARE AVAILABLE ON REQUEST.

Outline Configuration



NOTE: ALL MOUNTING PROVISIONS AND EXTERNAL COVER SCREWS ARE TO USA THREAD STANDARDS

*FOR OPTIONAL BARRY CONTROLS SHOCK MOUNT TRAY, P/N 94077-2

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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