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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

**CARGO HOOK CAMERA**

## PRODUCT DATA SHEET

VGA to VIDEO CONVERTER for aircraft applications

Part number: CUGV-1020-01

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## GPS DISTRIBUTION AMPLIFIER

### 4 WAY AIRCRAFT GPS DISTRIBUTION

#### ABOUT SKYQUEST AVIATION

Skyquest Aviation supply a range of airborne role equipment specifically designed to enhance the capability of surveillance & utility aircraft. Products include ruggedised video recorders in digital tape, hard disk, flash disk and analogue tape formats and a wide range of multi function LCD video displays, GPS based moving maps, differential GPS decoders, radar converters, cargo hook cameras, microwave link systems and NVG equipment & services.

#### PRODUCT INFORMATION

The CUGV-1020 is a compact, rugged VGA to Video signal converter unit. The unit converts a computer generated 'graphics' input (VGA, SVGA, XGA etc.) into a 525 or 625 line 'video' format.

An intelligent auto scaling scan converter accepts an RGBHV signal from a computer or map generator and converts it to a standard video format for display or recording utilising PAL/NTSC or STANAG 3350 signals.

#### Features include:

- Auto detection of incoming resolutions up to 1600 x 1200
- Autoset - automatically sizes the incoming signal to exactly fit the video screen.
- Rugged, proven design for harsh environments
- Computer signal loop-thru - allows normal use of the local computer whilst scan converter is operating
- Simultaneous outputs in Composite, S-Video (Y/C) and RGB
- Small and lightweight design.

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## CUGV-1020 VGA to VIDEO SCAN CONVERTER

### Graphic Signal Input

Graphic Signal Type	RGBHV
Termination	Auto-terminating into 75Ω
R-G-B Level Range	0.5-2.0 Vp-p
Scan Rate Detection	Automatic
Maximum Resolution	1600x1200
Max Without Line Drops	1024x768
Max Vert Refresh Rate	@ 640x480      210Hz @ 800x600      170Hz @ 1024x768     130Hz @ 1280x1024    100Hz @ 1600x1200    85Hz
Max Horiz Scan Rate	100KHz
Computer Compatibility	PC, Macintosh

### Graphic Loop Output

- Red (0.7V max)
- Green (0.7V max)
- Blue (0.7V max)
- ID2 (passed through)
- Ground
- Red Ground
- Green Ground
- Blue Ground
- Passed through
- Ground
- Ground
- ID1 passed through
- Horizontal sync (H) (TTL)
- Vertical Sync (V) (TTL)
- Passed through

### Video Outputs

Television Standards	NTSC, PAL-B/G Selectable
Impedance	75Ω
Composite Video	2
S-Video (Y/C)	2
RGBS	1
Graphic Loop-thru	1

### Video Outputs

- Red (0.7V max)
- Green (0.7V max) (separate sync)
- Blue (0.7V max)
- Red Ground
- Green Ground
- Blue Ground
- +5V through 220 ohm
- Composite sync (TTL)
- Composite video 1V p-p

### General

Size and Position	Automatic via AutoSet or Manual
Unerscan/Overscan	User-Definable Presets
Image Freeze	One Video Frame
Settings Memory	Non-Volatile
Zoom/Pan Range	2X Zoom & 100% Pan Coverage
Flicker Filtering	Selectable 2 or 4 Line
Horizontal Filtering	Full Digital
Conversion Technology	Proprietary
Colour Resolution	24-bit (16.8 Million Colours)

- Y Video 1
- Y video 1 screen
- C Video 1
- C video 1 screen
- Composite Video 1
- Composite video 1 screen
- Y Video 2
- Y video 2 screen
- C Video 2
- C video 2 screen
- Composite Video 2
- Composite video 2 screen

### Graphic input

- Red (0.7V max)
- Green (0.7V max)
- Blue (0.7V max)
- ID2 (passed through)
- Ground
- Red Ground
- Green Ground
- Blue Ground
- Passed through
- Ground
- Ground
- ID1 passed through
- Horizontal sync (H) (TTL)
- Vertical Sync (V) (TTL)
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### Power input

- +28v DC (0.4A max)
- 0V DC return
- Chassis

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