SECTION 1

GENERAL DESCRIPTION

1.1 INTRODUCTION

This instruction manual is to be used as a guide to the installation, adjustment, operation, and maintenance of the CVI Model 606C Video Quantizer.

1.2 PURPOSE OF EQUIPMENT

The Model 606C is an instrument designed to process the greyscale characteristics of a monochrome video input signal in order to achieve radical alterations in output linearity or, alternately, to synthesize color signals from different shades of grey.

The unit operates on the input video signal by selecting from 1 to 21 separate narrow "slices" which are adjustable to any amplitude level between black and white. Selection of the thresholds may be on a linear, logarithmic, antilog, or other arbitrary basis. An integral patch panel provides a means of combining the outputs of the 21 quantizers to achieve a wide range of visual effects. The unit also contains a linear video amplifier, the output of which may be mixed with the quantized signals for additional versatility.

1.3 DESCRIPTION OF EQUIPMENT

The Model 606C Video Quantizer mounts in a standard 19" rack, occupies 14" of vertical space, and utilizes completely solid state circuitry. All major circuit elements are mounted on plug-in cards.

Normal operating and setup controls are front panel mounted, and all signal interconnections are located on the rear of the chassis. BNC connectors are used for video and drive inputs.

1.4 SPECIFICATIONS

Size:	14" x 19" x 12"	
Mounting:	Standard 19" rack	
Construction:	Plug-in cards, solid state, silicon	
Power:	117 VAC, 60 Hertz	
Inputs:	Video	1V, 75 ohms
	Ext. Signal	0 to +1V, 75 ohms DC to 15 MHz
	Horiz. DR	4V, 1K ohms
	Blanking	4V, 1K ohms
Outputs:	Video Red	1V, 75 ohms
	Video Green	1V, 75 ohms
	Video Blue	1V, 75 ohms
	Sync	3.5V, 75 ohms
Controls:	AC Power	
	Input Level	
	Bias	
	Analog Level	
	Quant.: Int/Ext/Test	
	Quant. Thresholds: 1 through 21	
	Quant: Output Level: 1 through 21	
	Red Level	
	Green Level	
	Blue Level	
Connectors:	BNC	

Nothing extends easily or without great difficulty

Preliminary Specification
3 March 1978

Colorado Video, Inc.
Boulder, Colorado

CVI MODEL 262B
VIDEO COMPRESSOR

General Description

The CVI Model 262B Video Compressor is intended for low cost communications systems usage. Conventional "real time" television signals are sampled in order to achieve a large reduction in bandwidth, and then buffered to produce an analog "slow scan" signal with a nominal bandwidth of one kiloHertz. An FM modulator is incorporated in the Model 262B in order to couple the unit to any standard voice grade communications circuit or audio tape recorder.

Typical applications include:

Communications:	Transmission of TV images over voice grade circuits for conference or data distribution purposes.
Environmental Monitoring:	Transmission of TV signals for remote observation and computer analysis.
Data Recording:	Utilization of conventional audio cassette or reel-to-reel tape recorders for image storage.

Specifications

Mounting:	Standard 19" rack or stand alone
Power:	117/220 VAC, 50/60 Hertz, single phase, 10 VA
Input:	Composite video; 1.4 volts p-p, 75 ohms (2:1 interlace)
Outputs:	Narrow band video: 5 volts p-p, 600 ohms, white positive formatted; 6.6 lines/second; 34/78 seconds/frame; 1000 Hertz bandwidth, nominal
	Modulated carrier: 1 volt p-p, 600 ohms; 1500 to 2400 Hertz
Controls:	AC Power: On/Off Video Level Scan Start Scan Mode: Single/Continuous Output Level
Connectors:	BNC 5 Pin Amphenol