

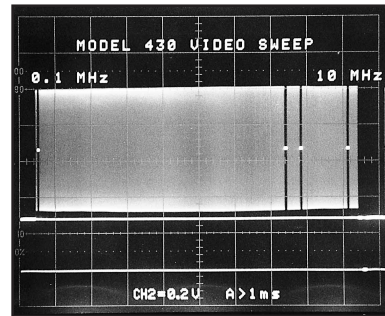
Video Sweep Generator with Multiburst



Model 430

- Start-Stop Sweep to 10 MHz
- 5 Sets of Sweep Markers
- Sweep and Multiburst
- Sweep With and Without Composite Sync
- Multiburst to 7 MHz
- Y/C Operation
- Sweep Amplitude Continuously Variable
- SMPTE and Full Field Color Bars
- 8 Color Rasters Include Black and White
- H and V Drive Plus Composite Sync

Model 430 supplies sweep and multiburst signals as well as SMPTE and full field color bars and flat field rasters in eight colors including black and white. The field rate sweep features start-stop control to tailor sweep width to the band of interest. Five separate sets of precision dropout markers spot key frequencies and each set can be used alone or in combination with the others. Both sweep and multiburst are continuously variable, independent of sync amplitude, but a separate control sets overall output level. For sweep/multiburst operations where sync is not desired (preamp checks), sync may be switched off. Here the scope is triggered from V or H drive signals or composite sync for WFM monitors.



Sweep Waveform

KEY SPECIFICATIONS

SYSTEM

NTSC
Subcarrier Frequency
3.579545 MHz

TEST SIGNALS

Multiburst
Reference Bar Amplitude
100 IRE (714 mV p-p) ± 2 IRE
Multiburst Amplitude
100 IRE (714 mV p-p) ± 2 IRE
Frequency
0.5, 1.25, 2, 3, 3.58, 4 and 7 MHz
Sweep
Frequency Range
100 kHz to 10 MHz
Sweep Width
Adjustable (start-stop)
Sweep Amplitude
100 IRE (714 mV p-p) ± 2 IRE
Marker Frequencies, Fixed

STEP	MHz					
1	0.1	1	2	3	3.58	3.8
2	0.1	1	4.2	6		
3	0.1	4	7.5			
4	0.1	4.5	5.5			
5	0.1	8	8.5	10		

Full Field Color Bars

75% amplitude, 100% saturated color bar with gray (75% white), yellow, cyan, green, magenta, red, blue and black

SMPTE Color Bars

Complies with SMPTE ECR1-1978

Raster (Full Field)

White, yellow, cyan, green, red, magenta, blue and black

Output Control

Luminance, chrominance, burst and sync/setup can be turned on/off individually

COMPOSITE OUTPUT

Amplitude
0 - 1 V p-p continuously variable at 75 Ω terminated
Output Impedance
75 Ω BNC connector

S-VHS OUTPUT

Y Luminance
1 V p-p (sync tip to 100% white)
C Chrominance
0.286 V p-p (burst)

Connector

Type S
TRIGGER OUTPUT

Amplitude
3 V p-p open circuit

MARKER OUTPUT

Amplitude
TTL Level

POWER REQUIREMENTS

100, 120, 220, 240 V ac ± 10%
50/60 Hz, 35 VA

PHYSICAL

Size (W x H x D)
16³/₄ x 3⁷/₈ x 11⁷/₈ in.
426 x 99 x 300 mm

Weight

11 lbs., 5 kg

SUPPLIED ACCESSORIES

1 BNC to Clip Cable (LC-2026)
1 Spare Fuse

AVAILABLE OPTION

Rackmount Adapter (LR-2450-201)