

Time code enables different pieces of studio gear to work together but it has become a source of problems and frustrations for many engineers. The SA-1 can eliminate these frustrations by identifying quickly and accurately time code errors and providing a comprehensive report.



FEATURES

Time code format & Frame Rate:

The front panel displays separately the format (24, 25 or 30), the drop frame status and the frame rate of the incoming time code. For example: 30 drop at a rate of 29.97. No more guessing!

In addition, the counter can show potential problems such as jitter or wow and flutter.

Time code errors:

Time code errors such as repeated frames, drop outs etc. are detected and reported on the front panel along with the faulty addresses. A buzzer is included which sounds whenever the analyzer detects an error.

Video Phase:

In audio post production, it is essential that time code be synchronous with video (i.e. the video frame must be perfectly aligned with the corresponding time code word). The SA-1 accurately monitor the phase between time code and video and report even slow drifts.

Printed time code report:

A comprehensive report can be sent to an external printer or computer via the rear panel serial port.

This report includes format, video phase and time code errors.

```

BRAINSTORM SR-15+ Ver 3.05
Time Code Distriplalyzer
TIME CODE REPORT

*** FORMAT ***
30 Drop Frame
Color Bit active
User Bits: HEX
01234567

*** VIDEO REFERENCE ***
Present
"V" drive at bit 79
*** START TIME ***
01.00.00.00

*** ADDRESS ERRORS ***
01.12.36.05 Drop out
01.18.41.23 Bad bits: 28
01.18.41.27 Frame repeated
01.20.15.00 Code restarted
01.21.36.12 Change in color status
01.22.28.15 Drop out
01.23.45.07 Code stopped

*** SUMMARY ***
VIDEO SYNC: Code Properly Synced

*** END TIME ***
01.23.45.07
END OF REPORT
  
```

SPECIFICATIONS

Input Signal:

SMPTE/EBU Longitudinal Time Code
 (Forward or reverse; play, shuttle and wind)
 Impedance: 20KΩ bal.; 10KΩ unbal.
 Level: -30dbU min; +20dbU Max

8 Digit Display Functions:

- Reader: reads time code and user bits;
- Video Phase: displays the time code bit aligned with video F1L5 and the field (of the color sequence) aligned with ID pulse;
- Errors: displays the description and address of the error detected

4 Digit Display:

- Frame Rate Reader: code in (fr/sec)
- Frequency Counter: tone in
- Reading range:
 ≈ 21 to 39 fr/sec or ≈ 5.00 to 99.99 Hz
- Display accuracy: ± 20 ppm plus $\pm 1/2$ lsd
- Resolution: .01 Fr/sec or Hz
- Update rate: 4x per sec.

Front Panel Indicators::

Signal present, Good code, ascii, Color, Drop, Video code

Connectors:

- 1/4" Jacks (3 contacts/TRS): TC in & loop
- BNC: video ref in
- DB-9 Male: Serial port (RS-232)

Termination switch (75W):

Video Reference in

Power:

12 to 16 VDC, .5 watt max

Dimensions:

5" x 1 1/2" x 5 1/4"



For sales and product information:

Main Office
info@plus24.net

1155 N. La Brea Ave. - W. Hollywood, CA 90038 - USA
 Tel: +1 (323) 845-1171 • Fax: +1 (323) 845-1170

plus24
www.plus24.net

European Office:
BEE DISTRIBUTION
beedistribution@brainstormtime.com
 Rue de Belle Vue, 58 - 1332 Genval (Brussels) - BELGIUM
 Tel: +32 2 / 653 13 61 • Fax: +32 2 / 653 20 03