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TIMEX SINCLAIR USERS GROUP - MILE HIGH CHAPTER
NOVEMBER 1991



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Next MHTSUG meeting is Saturday November 16, 1991 2 PM.
Location 601 S. Grant St. Denver.

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MHTSUG maintains a sub-board on THE KINGS MARKET BBS.
(303)665-6091, 8-1-N, Accessible through PC-Pursuit.

MENU SELECTIONS TO GET TO THE SUB-BOARD ARE:

- (1) CONTENTS
- (2) INTERESTS & USERS GROUPS
- (3) TIMEX - SINCLAIR

General messages for club members are addressed to "ALL".
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MILE HIGH TSUG NEWS.

MHTSUG October 19th meeting. By Curt Carlson

The meeting took place at Platt Park, with plenty of good food, family and fun. Some discussion on computing and planning next months meeting agenda occurred, but most of the time was spent eating, and enjoying the sunny but cool day. The need for Tony Tebby's QJUMP TOOLKIT II was discussed as this is the missing part of QDOS and the improved version of the original TOOLKIT. This version corrects many defects in the QL ROM. It obviously is more than a toolkit, and is actually a ROM upgrade with SUPERBASIC enhancements and features which are even improved and faster than the original version.
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THE 2068 VIDEO DIGITIZER (continued from September issue)

By Curt Carlson

The digitizer circuit has been around for many years even though many new software and hardware upgrades are just being introduced. I have observed that the original articles appeared in 1987 SYNC-LINK (Jan/Feb and Mar/Apr), the Toronto Timex Sinclair Users Group newsletter. I purchased just the bare board a couple of years ago and could hardly wait to get it together and try it out. It worked fine after a little adjustment with the board controls and camera settings. The circuit board is very compact and all parts are standard components available at many electronic supply stores. Part of the circuit is digital, where counting and synchronizing takes place and the rest is analog where operational amplifiers act as switches controlled by the digital signals to turn the video signal on and off. A Flip-Flop is used as a binary counter to drive three resistors to adjust the threshold of one of the Op Amps to turn on and off the video, depending upon its brightness level. These three resistors are selected to be close to the binary values of 1, 2, and 4. These resistor values are 6.8K, 15K and 33K, ideally the resistor values should be exactly one-half or

