MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PROJECT MAC

Eye Program

Artificial Intelligence Project
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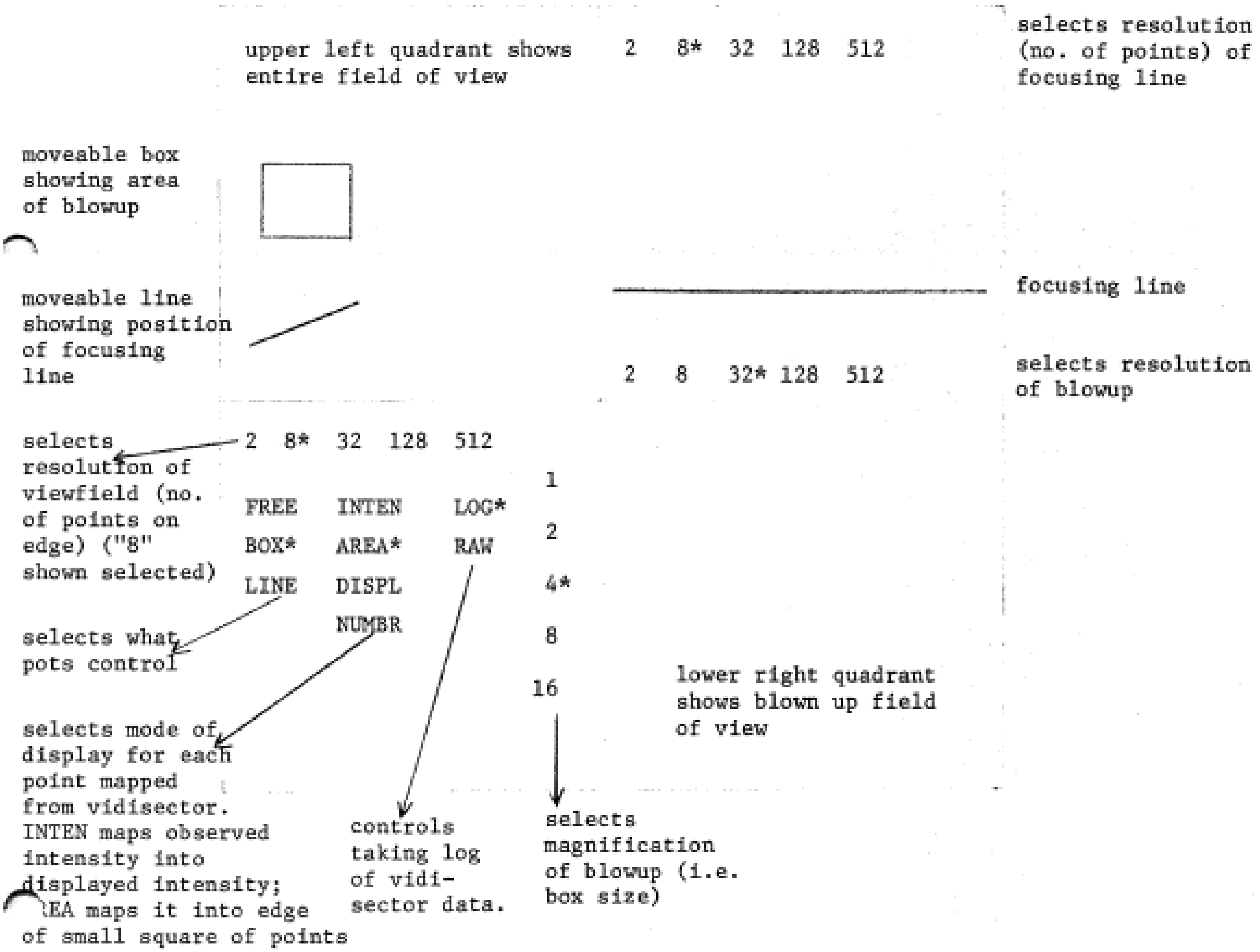
EYE is a program (on the Vision System tape with the name EYE BALL) which displays on the 340 the field of view of the vidisector. The program is controlled by the light pen, which selects various modes and options; and by the box with four pots, to locate the exact area examined. The scope display is arranged as follows:


upper left quadrant shows entire field of view
2 8* 32 128 512
selects resolution (no. of points) of focusing line
moveable box showing area of blowup
focusing line
moveable line showing position of focusing line
2 8 32* 128 512
selects resolution of blowup
selects resolution of viewfield (no. of points on edge) ("8" shown selected)
2 8* 32 128 512
FREE INTEN LOG*
BOX* AREA* RAW
LINE DISPL
NUMBR
1
2
4*
8
16
selects what pots control
lower right quadrant shows blown up field of view
controls taking log of vidisector data.
selects magnification of blowup (i.e. box size)

selects mode of display for each point mapped from vidisector.
INTEN maps observed intensity into displayed intensity;
EA maps it into edge of small square of points displayed;
DISPL displaces point vertically in proportion to intensity
NUMBR displays its value as an octal no.

The FREE mode allows the pots to be moved without affecting the box or line. When the BOX and LINE modes are entered, they automatically align the current pot settings with the current box or line position. In the BOX mode, two of the pots move the box's left edge and bottom, and the other two pots are free. In the LINE mode, two pots adjust the X and Y of one endpoint and the two others similarly move the other end. The end of the moveable line which corresponds to the left end of the focusing line is the end moved by the two pots which (in BOX mode) move the box.