INSTRUCTION MANUAL

TR4110/4110M

TR 4 1 1 4/T/H/HT

Tracking Scope

MANUAL NUMBER 1405 B 102

0997 A 004

EXPERIMENT: 54 INTRODUCTION TO ULTIboard

1.2 Use of the mouse:

The Left Mouse button (LMB) selects the highlighted item from a menu or performs a function.

The Right Mouse button (RMB) returns you to the previous menu or cancels a function.

Where a series of mouse clicks is required to perform a function perhaps via two or more menus the instructions in this experiment will be written in this form and will always assume you are starting from the MAIN MENU.

Select: Files-New-Yes-RMB...

This means you should move the mouse until the Files item is highlighted, click the LMB, then from the Files menu dick the New option, then click the Yes option. Finally, RMB... means click the RMB as many times as required to return to the MAIN MENU.

Try it! You have now deared any PCB layout which may have been in memory and are ready to start a new one.

1.3 Control of the screen:

If you click the RMB <u>once</u> from the MAIN MENU, the main menu is cancelled which gives the *Full graphics view* (Fgv). The mouse now moves a cursor with crosshairs and you have control over what you see on the screen.

In Fgv mode you can use the hot-keys for zooming (magnifying/reducing) and panning (moving the field of view). The hot-keys are:

[F7] = Full zoom [F8] = zoom in (magnify) [F9] = zoom out (reduce) [F10] = manual pan

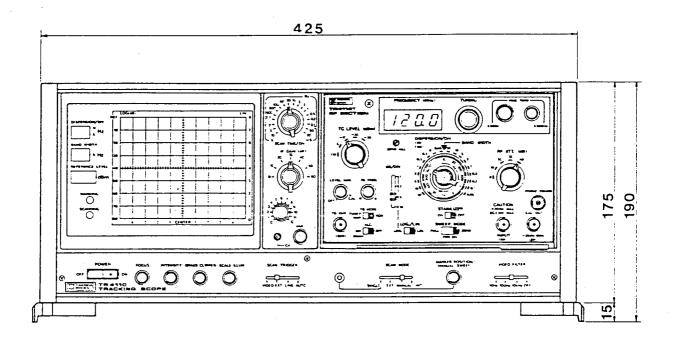
Try zooming out so you can see the entire PCB, then zoom in again.

The screen will pan automatically if you move the cursor to the edge of the screen. If it doesn't, the Auto pan feature is turned off. It can be turned on again by selecting: *Preferences-Auto pan-1/4 screen*.

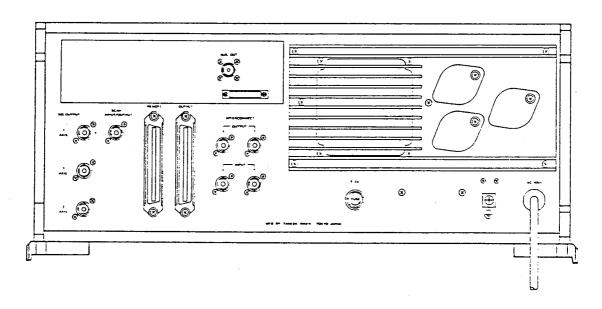
If you prefer a smaller pan increment, select: Preferences-Auto pan-1/16 screen.

A drawing "grid" is always used to define the position of components and tracks you draw. It can be made visible or invisible: Select: Display-Items-Visual grid-RMB...

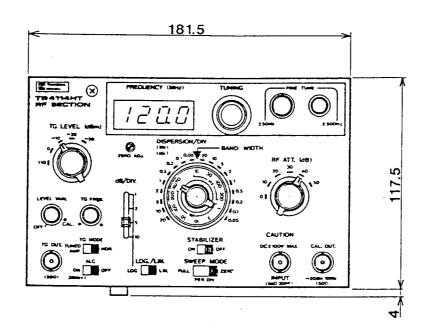
The size or "resolution" of the grid can also be changed: Select: Display-Visual Grid and type in the value you require. The default is 120/1200" or 100 mils (0.1")

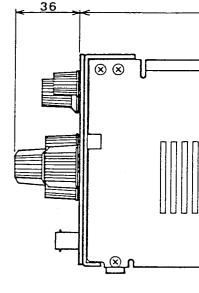


FRONT VIEW

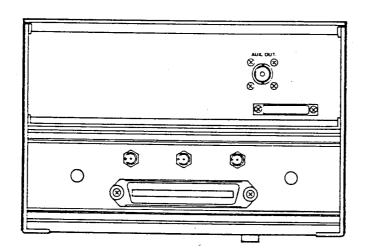


REAR VIEW

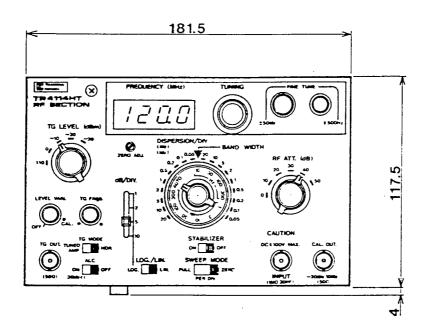


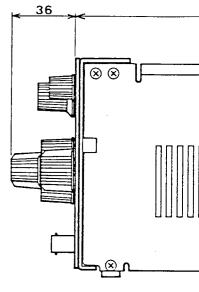


FRONT VIEW

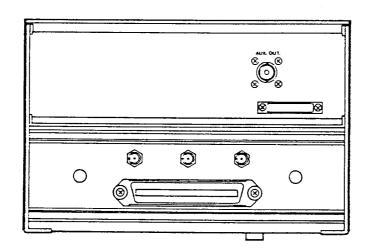


REAR VIEW

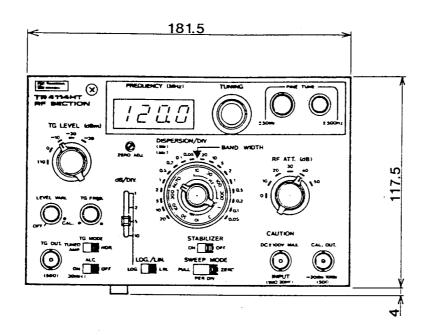


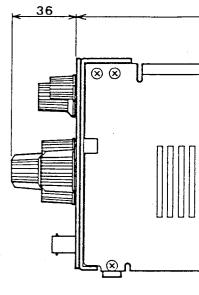


FRONT VIEW

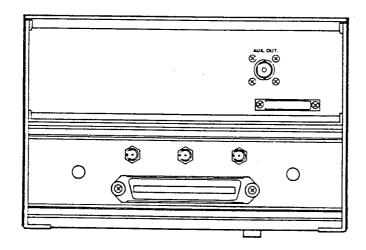


REAR VIEW

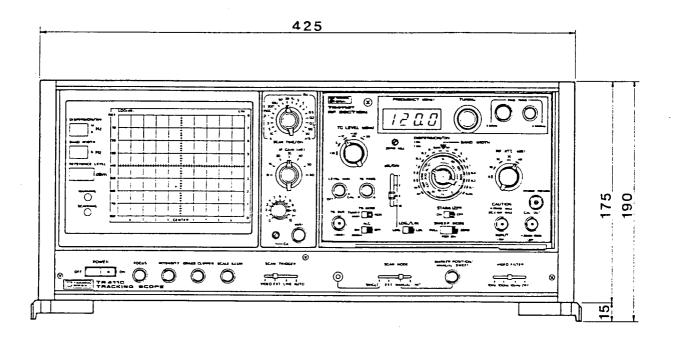




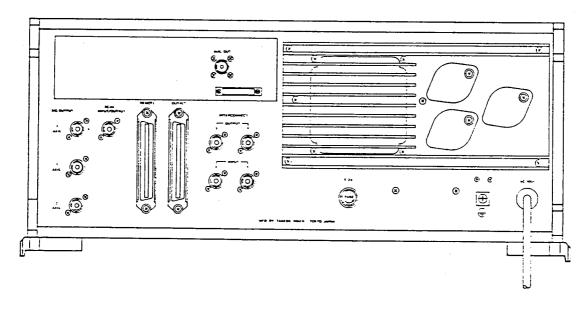
FRONT VIEW



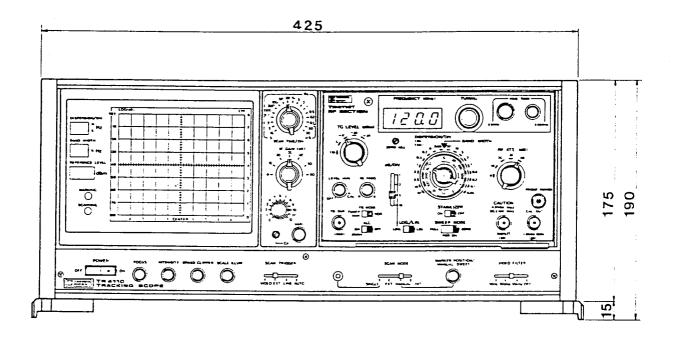
REAR VIEW



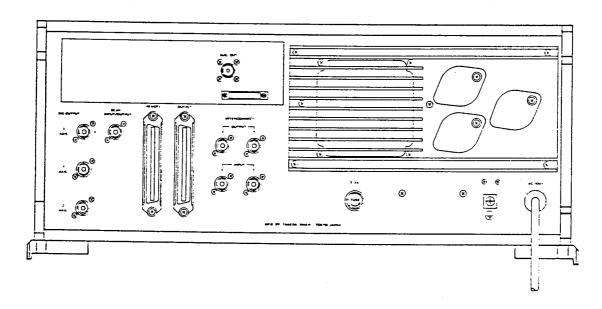
FRONT VIEW



REAR VIEW



FRONT VIEW



REAR VIEW