

The diagram illustrates the internal components and signal flow of the T710PHL monitor. At the top left, a list of OSD (On-Screen Display) controls includes: BRIGHTNESS, CONTRAST, MOIRE, DEGAUSSING, H/V POSITION, H/V SIZE, SPCC, TRAPEZOID, PIN BALANCE, PARALLELOGRAM, ROTATION (Tilt), RECALL / RESET, COLOR, INFORMATION, LANGUAGE, OSD TIME, TOP/BOTTOM CORNER, VIDEO LEVEL, and OSD CONTROL LOCK. These controls are managed by the MICOM & H/V Sync Processor (IC401) SAA4849, which also handles Text, Photo, Movie, and Normal viewing modes. The processor receives H-Sync, V-Sync, I²C DATA (SDA), and I²C CLOCK (SCL) signals. It controls the VIDEO Pre-AMP / OSD (IC302) and VIDEO Main AMP (IC303), which drive the DY (Dynamic Yoke) and CDT (Cold Cathode Display Tube). The system also includes a Heater (6.3V) and a CUT OFF Circuit (IC304) for R/G/B Bias. The FBT (Fluorescent Beam Tube) (T701) is the central component, receiving H-Drive, B-Drive, and H-Linearity Correction signals. It is connected to the V-Out (IC601) TDA4867J and H-Out (Q706) stages. The FBT is also connected to the Dynamic FOCUS Circuit, Auto Beam Limit, and D/D Feed Back. The power supply section includes a Degaussing Circuit, Line Filter, and SMPS (Switching Mode Power Supply) (T901) with SMPS Control (IC901) and DPM Control Circuit. The input is 100-240VAC (50/60Hz). The diagram also shows the X-RAY Protection Circuit, Brightness Control, and Regulation Circuit. The overall system is powered by 120V 60Hz, with a fundamental operation frequency of 0.030-0.085 MHz.

FUNDAMENTAL OPERATION FREQUENCY IS 0.030-0.085 MHz .