

Test Equipment List: Consumer Electronics

Required Equipment

AC Leakage Tester

Anode Cap remover, 500uA capability

Anti-Static mat and/or bench floor pad, W/Wrist or leg strap

Audio Oscillator

Color Monitor or Monitor Receiver w/RF tuner

DC power supply; 0-18V DC, 20AMP & 0-50V DC, 3AMP

Degaussing Coil

Desolder Station, grounded metal tip and hot air; Solder Station (ESD), temp-controlled, grounded tip; temp range: 400 F-800 F and hot air type

Digital Vol/Ohm/mA meter w/Diode and Cap Checker, .1V DC to 1000V DC; sensitivity 1 mV, .5% accuracy

Dual Trace Oscilloscope, triggered with time delay; Bandwidth: DC – 100 MHz; sens.: 2mV/cm

Hex nut drivers, std. and metric assortment; hex wrenches, std. and metric assortment

Hi-Fi Stereo Amplifier, 25 W w/AC3 Dolby Digital Decoder; DTS/Digital Dolby receiver

High Voltage probe

Isolation Transformer, Volt amp rating must equal or exceed highest power rating of products serviced

Klein gauge; microscope (for viewing CRT convergence)

NTSC Pattern Generator, 1 V pp; Color Bar with 75% saturation, 100% white bar, RGB composite out – capable of supplying a composite signal or a composite signal source

PC computer, Pentium or better w/SVGA monitor/SCSI adaptor

Test Speakers, 0-100W

VARIAC, isolation type; 0-140 V AC; >=7.5 Amps with line monitor

Tools & Supplies

Conventional Hand Tools

Teresso Oil

Tension Gauge

Torx Drivers

Compass (Used on large Kinescopes)

Optional Equipment

AC Analog Vol/Ohm Meter

ATSC/HDTV Pattern Generator - 1H,2H & 2.4H capable with standard YprPb component signal output & SMPTE color pattern or 1H/2H DVD with equivalent test disc.

Distortion Analyzer

Filters, Cloudy fine, fluorescent, red blue, hoyo 0.1 and 1.0

Hiltazi Grease

IEEE1394 Cable and interface card

Inclinometer

Light Box with slides or Halogen Quartz Light, 3200 Degrees K

Light Meter, 1,000 lux

Light Test Charts, NTSC color II step logarithmic gray scale, back and auto focus, resolution and registration

Logic Probe

Molytone Grease

NTSC Vectorscope. Some LCD projectors include cameras

Pal/Secam Pattern generator, 1 V V pp; Color Bar with 75% saturation, 100% white bar, RGB composite out

PC pattern generator, CGA, EGA, MDA, VGA, SVGA and XGA

Spectrum analyzer, 1 MHz to 1 GHz

Surge Protector

Video Monitor with composite inputs

Wow and Flutter Meter, Standards: JIS (Japan), NAB (US) < CCIR, DIN, WOW/flutter measurement .003-3%

Y/C RBG, Computer pattern generator

Satellite system complete, including dish, feed-horn, LNB(F), actuator (if C/Ku serviced), IRD receiver