

MODULE WIREBONDING

(one technician)

Preparation (1min):

- Get module from cabinet
- Take module out of box
- Mount module on wire bonding fixture
- Scan barcode and start database
- Drive fixture in

Bonding (10min 10sec):

- Do 5 bonds on P.A. test area (*45 sec*)
- Do bias bonds (*2 min*)
- Check number of bonds made thus far and enter into database (*15*)
- Start bonding program and bond all signal wires (*4min 30sec to 5min, depending on eyepoints and whether it's a 4- or 6-chip module*)
- Check that all bonds are there, if not, re-do missing bonds (*2min*)
- Remove module from wire bonding fixture (*10 sec*)

Post-bonding tasks (6min 55sec):

- Put module under stereoscope and check bonds (*30sec*)
- Get bad channel list from database (*30sec*)
- Pluck bad channels (*1min 40sec*)
- Put module on pull tester and pull test P.A. test area bonds (*1min 45sec*)
- Put module back into box and return to cabinet (*30sec*)
- Enter pull test results and all other information into database (*2min*)

Total time: 18min 5sec

MODULE WIREBONDING **(with two technicians)**

First Technician:

Preparation (20sec):

- Get module from cabinet
- Take module out of box and give to second technician

Second Technician:

Preparation (25sec):

- Mount module on wire bonding fixture
- Drive fixture in

Bonding (10min 20sec):

- Do 5 bonds on P.A. test area (*45 sec*)
- Do bias bonds (*2 min*)
- Check number of bonds made thus far and write it down (*15sec*)
- Start bonding program and bond all signal wires (*4min 30sec to 5min, depending on eyepoints and whether it's a 4- or 6-chip module*)
- Check that all bonds are there, if not, re-do missing bonds (*2min*)
- Remove module from wire bonding fixture (*10 sec*)
- Give module back to first technician (*10sec*)

First Technician:

Post-bonding tasks (7min 20sec):

- Get module from second technician (*10sec*)
- Put module under stereoscope and check bonds (*30sec*)
- Open database and scan barcode (*30sec*)
- Get bad channel list from database (*15sec*)
- Pluck bad channels (*1min 40sec*)
- Put module on pull tester and pull test P.A. test area bonds (*1min 45sec*)
- Enter pull test results and all other information into database (*2min*)
- Put module back into box and return to cabinet (*30sec*)

Total time: 10min 45sec