

WCT-120 Software Version 4.6.0 Release Notes (12/10/2014)

- QSS and Transient flash data (1/1 and 1/64 respectively) can both be measured and analyzed in Generalized mode (“Generalized 1/1” and “Generalized 1/64” respectively). This also allows for the averaging using the Generalized (1/64) analysis for measurements using the transient wait time between flashes.
- New Analysis Parameters and Settings:
 - Added Auger model options (Sinton or Richter)
 - Sinton Model find the Auger corrected lifetime by subtracting off the auger recombination term as calculated using the Auger coefficient found on the settings page.
 - Richter model incorporates Auger recombination model from Richter and Gluntz (A. Richter and S. W. Gluntz, Physical Review B 86, 165202 (2012)). When this model is used, band gap narrowing from Altermatt, Sproul, and Schenk is implemented in the n_i calculation. This band gap narrowing incorporates Boltzmann statistics in the calculation of n_i . This affects the J_0 and Implied Voc calculations (P.P. Altermatt, A.Schenk, F. Geelhaar, G. Heiser, Journal of Applied Physics, 93, 3 (2003), A.B. Sproul, M.A. Green, Journal of Applied Physics 73, 3, (1993), M.A. Green, Journal of Applied Physics, 67, 6, (1990), A. Schenk, Journal of Applied Physics, 84, 7, (1998))
- Added error message to suggest which analysis mode to use (generalized or transient).
- Added fix to account for ActiveX control errors due to Microsoft Office Update.