1	You	Tube Demo Videos / Quick Start	5
	1.1	YouTube Demo Videos	5
	1.2	Quick Start	5
2	Inti	oduction	6
	_		_
3	Vis	al Tour of the Hardware	8
	3.1	USB Port	
	3.2	Binding Posts / PV Connection Cables	
	3.3	Innards	
	3.3		
	3.3		
	3.3	.3 Relay Module	11
4	Usi	ng the IV Swinger 2 Software	12
	4.1	Main Window	
	4.1	.1 Swing! Button	13
	4.1		
	4.1	.3 Preferences Button	14
	4.1	.4 Plot Power Button	14
	4.1	.5 Loop Mode Controls	15
	4.1	.6 Axis Ranges Control	16
	4.1	.7 Image Size Control	16
	4.1	.8 Version	17
	4.2	Tooltips	17
	4.3	Menus	17
	4.3	.1 About Menu (Windows)	18
	4.3		
	4.3	.3 File Menu	19
	4.3	.4 USB Port Menu	19
	4.3	.5 Calibrate Menu	19
	4.3	'	
		Results Wizard Dialog	
	4.4		
	4.4	6	
	4.4		
	4.4		
		I.4.4.1 Changing Overlay Plotting Options	
	4.4	0 1	
	4.4	-	
	4.4	·	
	4.4	· ·	
	4.4	, , , ,	
		.10 Creating a Desktop Shortcut to Runs Folder	
		.11 Importing Results from a USB Drive	
	4.5	Preferences Dialog	
	_	.1 Plotting Preferences Tab	
		·= ···································	

Line type	
Isc, MPP, Voc labels	
ooping Preferences Tab	37
rduino Preferences Tab	38
SPI clock freq	38
Max IV points	38
Min Isc ADC	
Max Isc poll	39
Isc stable ADC	
·	
•	
rs and Files	39
_Swinger.cfg file	40
ogs folder	40
un folders and files	40
IV_Swinger.cfg	40
iv_swinger2_yymmdd_hh_mm_ss.pdf	40
iv_swinger2_yymmdd_hh_mm_ss.gif	40
iv_swinger2_yymmdd_hh_mm_ss.csv	40
adc_pairs_yymmdd_hh_mm_ss.csv	41
verlays folder	41
overlaid_yymmdd_hh_mm_ss.pdf	41
overlaid_yymmdd_hh_mm_ss.gif	41
0.	
ıgs	42
gsetween second and third points	42 42
ıgs	42 42
gsetween second and third points	42 42 43
etween second and third points	42 42 43
etween second and third points	42 42 43 44
etween second and third points	42 43 44 45
etween second and third points	42 43 44 45
etween second and third points	42 43 44 45 45
etween second and third points	42 43 44 45 45 45
etween second and third points	42 43 44 45 45 45
etween second and third points	424345454545
etween second and third points	424345454545
etween second and third points	424345454545
etween second and third points	42 43 45 45 45 45 45
etween second and third points curve only	42434545454545
etween second and third points curve only	42434545454545
etween second and third points	424345454545454545
etween second and third points	42434545454545454545
etween second and third points	
etween second and third points	
etween second and third points fourve only	42434545454545454545454545
etween second and third points	
	Isc, MPP, Voc labels Font scale, Line scale, and Point scale ADC correction Doping Preferences Tab SPI clock freq Max IV points Min Isc ADC Max Isc poll Isc stable ADC Max discards Aspect height Aspect width rrs and Files /_Swinger.cfg file Dogs folder Un folders and files IV_swinger2_yymmdd_hh_mm_ss.pdf iv_swinger2_yymmdd_hh_mm_ss.csv adc_pairs_yymmdd_hh_mm_ss.csv verlays folder overlaid_yymmdd_hh_mm_ss.pdf

Figure 4-4: Expanding a Date Group	22
Figure 4-5: Selecting a Run	
Figure 4-6: Changing the Title of a Run	24
Figure 4-7: Creating an Overlay	25
Figure 4-8: Copying Runs to a USB Drive (Mac)	
Figure 4-9: Copying Runs to a USB Drive (Windows)	30
Figure 4-10: Path to Results Folder	31
Figure 4-11: Changing the Path to a USB Drive	31
Figure 4-12: Path Successfully Changed to USB Drive	32
Figure 4-13: Making a Desktop Shortcut to Raw Results	33
Figure 4-14: Preferences Dialog	
Figure 4-15: Preferences Looping Tab	
Figure 4-16: Preferences Arduino Tab	
Figure 4-17: Run folder contents	