

DFD/FPGA Compatibility matrix		
Product	Software version	FPGA Version
Falcon (SS150, SS123W, RS125, RS140, SS150 SS160, SS250 MS350,MS380, DS410 PS450)	3.x	0-21
	2.x	0-?
Kestrel (D-10+, D-20+)	3.2.x	20-22
Kestrel (D-10, D-20)	3.x.x	10-17, 19-22
	2.x.x	0-9

Note: Latest Software into an earlier Firmware, will not unlock new features introduced by FPGA.

D-series

The only thing that I know that you cannot do is put V3.x.x software into a set with V9 FPGA or below.

All other software functions in all other FPGA's – to the extent that the FPGA supports the feature set of the software.

Again **green** text indicates current stable release. **Blue** text indicates items that can be left alone during service unless the service centre wants to update the DFD.

FPGA Version	Release Date	Reason for Introduction	Software Compatibility Notes
22	April 2012	Bug Fix for TCG on D+	Current SW Release 3.2.5 valid on both VGA and QVGA hardware with either old or new front panel.
21	June 2011	Bug fix for A-scan on D+ (VGA screen)	No software change for FPGA support
18		Support new Front Panel with older QVGA screen	
17		Added Persistence to D+ VGA development	
16		Added Persistence to Existing D-series with QVGA screen	Version 3.2.x onwards permit use of persistence. Compatibility with older FPGA's maintained down to version 9. V3.1.x software works but does not support persistence.
15	January 2010	Bug fix for A-scan in QVGA screen	D-series V3.1.x. software. (Advanced Thickness) with Original front panel. This FPGA version stable with all features enabled. Version 2.x.x software will also function on this FPGA, but not all features are enabled.

14	December 2009	Bug fix for waveform recall.	
13	September 2009	Change waveform recall method	
12	March 2009	Gate "edge" trigger feature added	
11	February 2009	B-scan location registers added.	
10		Bug fix for smoothing	
9		Change memory decode to permit development of Advanced thickness features	Version 3.0.x onwards. SW will NOT fit in processor memory if FPGA version below this. SW Version 2.x.x is stable in this FPGA
8		Bug fix for active peak waveform recall	
7		Bug fix for TCG	
6		B-scan step-size register added	
5		Change A-scan Acquisition to permit suppressive reject	
4		Added B-scan capability	
3		Changed Key-click control	
2		Bug fix for USB control IC reset	
1		Added access to serial flash chips for enhanced storage memory access	
0		Initial release	

Falcon Compatibility

All released software will work on all released FPGA's. Current FPGA version in **Green**. Versions in **Blue** are acceptable on equipment returned for service.

If a unit with FPGA version 20 or below has its FPGA updated to current production standard, it should also have its CPLD updated, or neither the newer active peak or the older envelope waveform will be displayed.

FPGA Version	Release Date	Reason for introduction	Software Compatibility Notes
12		Stable Production Release	
13		Bug fix for IFT	
14		Output Sync signals added	No Software Change for this feature
15		Delay counter modified to cope with large ranges	Major SW Version 2.x.x. Compatible with all previous versions of FPGA.
16		Bug Fix for Gates	No software change for this feature
17	January 2007	Bug fix for IFT	No software change for this feature
18	May 2007	TCG on small ranges	No software change for this feature
19	Never released	Active Peak development	
20	September 2007	Active Peak released	Version 2.41 software released. Earlier SW versions will not use active peak but will work as before. All later SW versions will use Active Peak if available, but are also compatible with earlier FPGA.

21	May 2008	Added software control of proportional outputs	Mostly for use with Atlantis Autoscan AS2500 and AS3500. Version 3.1.x will show these options, earlier versions will not.
22		External Trigger capability – was never released	There is no released software for this feature.
23		Bug fix for V22	There is no released software for this feature
24		Persistence Feature added –customer evaluation only. Never sold.	There is no released software for this feature.