Key Differences between the WSR-88D & TDWR

	WSR-88D	TDWR
Wavelength	10 cm (S Band)	5 cm (C band)
Half-power Beamwidth	~1⁰	~0.6⁰
Pulse Length	1.57 μs	1.1 μs
Range Resolution	~250 m	~150 m
VCPs	3 clear air 4 precip	1 clear air ("monitor") 1 precip ("hazardous")
Dual-Pol Availability	Yes	No
Clutter Filtering	Various methods, little data loss	"All-bins" algorithm, more aggressive, signal loss on zero isodop
Velocity Dealiasing	Primarily uses 2-D or legacy VDA	Primarily uses MPRF