

## Technical specifications

H30EVOLUTION	
Mechanical Specifications	
Display	2.8" TFT 400 x 240 full colour
Weight	510g (1.124 lbs)
Dimensions	175 x 100 x 52 mm / 6.9 x 3.9 x 2 in (H x W x D)
Power Source	Input: 100-240V~ 50-60Hz Output: 12VDC, 2A
Battery	Lilon smart battery (7.2VDC, 2300mAh)
Operating Time	>4 hours
Operating Temperature	23°F to 104°F (-5°C to 45°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Humidity	5% to 95% non-condensing
Ruggedness	Survives 1 m (3 ft) drop to concrete on all sides
Communication Interfaces	USB 2.0 to download Datalogs and software updates
Storage	400 MB (internal) for measurements
Power up time	< 10 seconds

		593581	593585
Frequency			
Range		5-1002 MHz (depending on the function)	
Resolution		125 kHz	
Tuning		Frequency or channel	
Spectrum Analyzer			
Span		5, 10, 20, 50, 100, 200, 500 and Full span	
Scale		5 and 10 dB/div	
Hold mode		✓	
Reference level (automatic and manual)		✓	
ATSC 3.0 Digital Measurements [Modulation OFDM]			
Frequency Range		42-1002MHz	42-1002MHz
MPEG image		Upgrade 593280	✓
Power	-15 - 50dBmV (45-110dBµV)	Upgrade 593280	✓
	-35 - 60dBmV (25-120dBµV)	Upgrade 593280 + 593235*	Upgrade 593235*
MER	Up to 38dB	Upgrade 593280	✓
LDPCBER	1.0E-2 - 1.0E-6		✓
BCHBER	1.0E-3 - 1.0E-8		✓
C/N	Up to 40dB		✓
Constellation			✓
Echoes			✓
ATSC 1.0 Digital Measurements [Modulation 8VSB]			
Frequency Range		42-1002MHz	42-1002MHz
MPEG image		✓	✓

Power	-15 - 50dBmV (45-110dBµV)	✓	✓
	-35 - 60dBmV (25-120dBµV)	Upgrade 593235*	Upgrade 593235*
MER	Up to 38dB	✓	✓
PreBER	9.9E-2 - 1.0E-6	✓	✓
PostBER	1.0E-3 - 1.0E-8	✓	✓
Constellation		✓	✓
Digital Measurements QAM [Modulations 64QAM and 256QAM]			
MPEG image		✓	✓
Power	-15 - 50dBmV (45-110dBµV)	✓	✓
	-35 - 60dBmV (25-120dBµV)	Upgrade 593235*	Upgrade 593235*
Pre-BER and Post-VER	1.0E-3 - 1.0E-8	✓	✓
MER	Up to 38dB	✓	✓
C/N	Up to 40dB	✓	✓
Constellation		✓	✓
Analogue Measurements			
Level	-35 - 65dBmV (25 - 125 dBµV)	✓	✓
V/A		✓	✓
C/N	Up to 45dB	✓	✓
Measurements and functions			
Wi-Fi Analyzer		Upgrade 593250	✓
IPTV Analyzer		Upgrade 593251	✓
HEVC video display		Upgrade 593252	✓
Terrestrial plans		CCIR, FCC STD, FCC	
User plans		✓	
Units		dBµV, dBmV, dBm	
Preamplifier powering		13, 18, 24 Vdc (max. current 475, 370, 140mA)	
System Scan		✓	
Learning Plan		✓	

\* Ref. 593235: Free upgrade when registering the equipment.