

Technical Note

Subject: **Blighter 202 Radar Transmission Licence Application Information**

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To:

cc:

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Plextek's Blighter 202 Radar has both CE(!) Approval and FCC Authorization, allowing it to be sold into the European and American continents respectively. However, in most countries it is still necessary for the operator of the equipment to acquire a Transmission Licence from the national spectrum management authority. In the UK this is OFCOM and in the USA, the FCC.

Each licensing authority asks for specific characteristics of the transmitting equipment. This document provides the majority of information required by most authorities.

Model Number	Blighter 202
Manufacturer	Plextek Ltd. London Road, Great Chesterford, Essex, CB10 1NY United Kingdom Tel. +44 1799 533200 Email: blighter@plextek.co.uk Web. www.plextek.com or www.blighter.com
Class of emission - UK	1GF0Q0N
Class of emission - USA	15M0F1D
Instrumented range of operation	20 metres to 5000 metres

Frequency of operation (spectrum occupancy) – Selection of any 1 of 3 Groups possible (by default selection Group A is selected)	Group A – MHz	Group B - MHz	Group C - MHz
	15704 - 15731	15735 – 15762	15766 – 15793
	15866 - 15893	15898 – 15924	15929 – 15956
	16035 – 16062	16066 – 16093	16098 – 16124
	16210 – 16237	16241 – 16268	16273 – 16299
	16391 – 16418	16423 – 16449	16454 – 16481
	16598 – 16624	16629 – 16656	16660 – 16687
	16823 – 16849	16854 – 16881	16885 – 16912
	-	16916 – 16943	-
	17063 – 17090	-	-
	17107 - 17134	17138 - 17165	17169 - 17196
Antenna Gain	20dBi min, 24dBi max.		
Antenna Beamwidth - Azimuth	3.5° – 9.5° over approx. 80° electronic-scan segment		
Antenna Beamwidth - Elevation	±9° to ±11° about boresight (0°)		
Polarisation	Linear Horizontal		
Peak Transmitter Power supplied to Antenna	+1dBW = 1.26 Watts		
Theoretical Peak Radiated Power (EIRP)	+25dBW		
Theoretical Mean Radiated Power (EIRP)	+23dBW		
Measured Mean Effective Radiated Power (ERP) (For FCC)	166 Watts		