



1516 Centre Circle, Downers Grove IL 60515

ANTENNA EXHIBIT			
Manufacturer Name	Accutech Security LLC.		
Manufacturer Address	10125 S 52nd Street Franklin, WI 53132		
Model No.	BR52TAG		
Specifications	FCC "Code of Federal Regulations" Title 47 Part 2.1033(b)(4), 15.203, 15.212, 15.217, 15.219, 15.255 and 15.256 KDB 353028 D01 v01 f01 Industry Canada RSS-GEN		
Test Facility	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Elite Electronic Engineering, Inc. 1516 Centre Circle, Downers Grove, IL 60515</td> <td style="width: 50%;">FCC Reg. Number: 269750 IC Reg. Number: 2987A CAB Identifier: US0107</td> </tr> </table>	Elite Electronic Engineering, Inc. 1516 Centre Circle, Downers Grove, IL 60515	FCC Reg. Number: 269750 IC Reg. Number: 2987A CAB Identifier: US0107
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Requirement	<p>All part 15 applications will need to show how the antenna gain was derived either from a manufacturer data sheet or a measurement.</p> <p>Where the gain of the antenna is inherently accounted for as a result of the measurement, such as field strength measurements on a part 15.249 or 15.231 device, so the gain does not necessarily need to be verified. However, enough information regarding the construction of the antenna shall be provided. Such information maybe photographs, length of wire antenna etc.</p> <p>The antenna gain information shall be made public (not confidential). Any proprietary information such as construction maybe stripped from the gain information report and held confidential. The main antenna information we require is the maximum gain of the antenna for the band of operation.</p> <p>This information must be provided as a data sheet or a measurement report.</p>		

The antenna coil is what's called an "autotransformer", which is a transformer where the primary and secondary are one piece of wire common to a tap point. The "turns ratio" makes it a step-up transformer; and the tap point is optimized for a tradeoff between "transforming up" to the highest possible voltage, and also impedance matching the antenna to the driver for maximum power transfer.