

RF Exposure Statement:

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Client:	Kostal (Shanghai) Management Co.,Ltd. No. 77 Yuangao Road, Jiading District, Shanghai, P.R. China								
Test item:	EV Remote								
Identification:	K9499-001								
FCC ID: RX8K9499-001									
FCC Requirement									
According to FCC 2.1091, mobile equipment must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Equipment Use</th> <th>Frequency Range</th> <th>Power Density [mW/cm²]</th> <th>Average Time [min]</th> </tr> </thead> <tbody> <tr> <td>General Population / Uncontrolled Exposure</td> <td>1.5 – 100GHz</td> <td>1</td> <td>6</td> </tr> </tbody> </table>		Equipment Use	Frequency Range	Power Density [mW/cm ²]	Average Time [min]	General Population / Uncontrolled Exposure	1.5 – 100GHz	1	6
Equipment Use	Frequency Range	Power Density [mW/cm ²]	Average Time [min]						
General Population / Uncontrolled Exposure	1.5 – 100GHz	1	6						
IC Requirement									
According to RSS-102 (Issue 4), clause 2.5.2, no routine RF exposure evaluation is required if the transmitter power (e.i.r.p.) is below the following threshold: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency Range</th> <th>SAR Limitation [W]</th> </tr> </thead> <tbody> <tr> <td>Above 1.5GHz</td> <td>5</td> </tr> </tbody> </table>		Frequency Range	SAR Limitation [W]	Above 1.5GHz	5				
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Measurement Result									
The maximum measured transmitter power is the following: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Conducted Output Power P_{out} [mW]</th> <th>Maximum Antenna Gain [dBi]</th> <th>P_{out} EIRP [mW]</th> <th>Power Density at 20cm [mW/cm²]</th> </tr> </thead> <tbody> <tr> <td>10.4</td> <td>2</td> <td>0.2</td> <td>0.0032</td> </tr> </tbody> </table>		Conducted Output Power P _{out} [mW]	Maximum Antenna Gain [dBi]	P _{out} EIRP [mW]	Power Density at 20cm [mW/cm ²]	10.4	2	0.2	0.0032
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Note: The power density S in mW/cm² is calculated according to the Friis formula: $S = (P_{out} \cdot G) / (4\pi \cdot D^2)$, where S = power density in mW/cm² P_{out} = antenna conducted output power in mW G = antenna gain in linear scale (here: 2dBi=10log(G)) D = distance between observation point and radiating structure in cm (here: 20cm)									
Conclusion									
The device complies with the FCC and IC RF exposure requirements since the maximum transmitter power density is below the FCC limit and the e.i.r.p. power is below the IC RF exposure evaluation exemption threshold. Refer to test report 15057988 001 for more details.									
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