

# **RF EXPOSURE EVALUATION**

### 1. PRODUCT INFORMATION

Product Description	SMART PHOTO FRAME
Model Name	TID7, BYD7, TID7S, BYD7S, DF701, DF702, TID8, BYD8, TID8S, BYD8S, DF801, DF802
FCC ID	2AXUI-TID78-BYD78

## 2. EVALUATION METHOD AND LIMIT

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

Frequency	E-field Strength	Magnetic Field Power Density		Averaging Time
Range	(E)	Strength (H) (S)		E  <sup>2</sup> ,  H  <sup>2</sup> or S
(MHz)	(V/m)	(A/m)	(A/m) (mW/cm <sup>2</sup> )	
0.3 1.34	614	1.63 (100)*		30
1.34 30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30 300	27.5	0.073	0.2	30
300 1500			f/1500	30
1500 100,000			1.0	30

#### LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

\*Note:

1. f= Frequency in MHz \* Plane-wave Equivalent Power Density

2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

#### S=PG/4πR<sup>2</sup>

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna



# CALCULATION

A minimum test separation distance  $\geq 20$  cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be at least 20 cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of § 2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

2.4GWIFI
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Mode	Max. Peak Conducted	
	Output Power (dBm)	Max. tune-up
	Antenna	Antenna
2.4GWIFI	11.63	12±1

2.4G WIFI:

Mode	Max. tune-up		Antenna	Antenna	MPE	MPE
	dBm	mW	Gain	Gain	(mW/cm <sup>2</sup> )	Limits
			(dBi)	(linear)		(mW/cm <sup>2</sup> )
2.4GWIFI	13	19.953	1.3	1.349	0.00535	1.0000

Note:

1. Only the worst case recorded.

## 4. Conclusion :

Compliance the RF exposure requirement