

# EMZ RF1

EMZRF1 est un émetteur RF pour déclencher les messages du PortaDAP XPerience.

Avec sa platine de fixation et sa petite taille il est facile à intégrer.  
Il est alimenté par un bloc secteur 12V fourni.

Habituellement l'émetteur doit être site à proximité de la zone de déclenchement. Il est livré avec une antenne : câble de 15,5 cm soudé sur une fiche RCA.

Il est possible de le placer loin de la zone de déclenchement en déportant l'antenne.

Il peut déclencher des messages :

- 'Direct On Demand', le visiteur presse la touché 'Play' et le bon message démarre en synchronisation avec la source.
- 'Zone On Demand', le visiteur compose le numéro du message et presse la touche 'Play' et le bon message démarre en synchronisation avec la source. (vidéo, lumière show, etc. ).



La configuration du mode de déclenchement est réalisée avec le logiciel iGuide.

## Vue de Face



Puissance RF Ajustable

Antenne

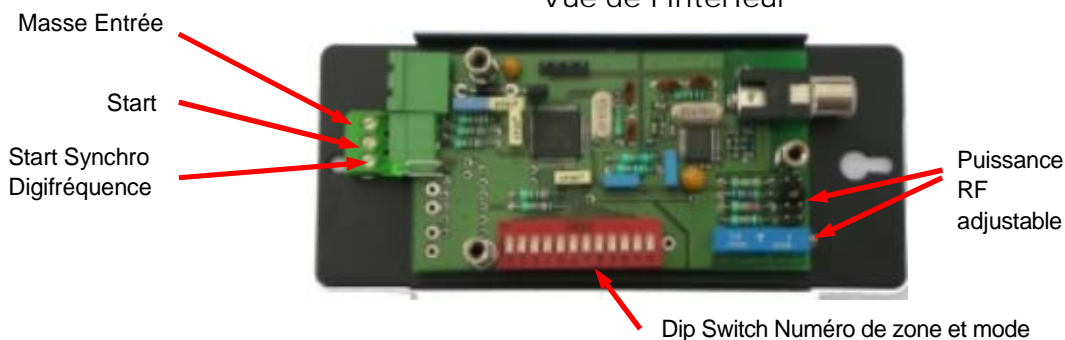
## Vue de l'arrière



Alimentation  
5-12VDC

Entrée déclenchement

## Vue de l'intérieur



Masse Entrée

Start

Start Synchro  
Digifréquence

Puissance  
RF  
adjustable

Dip Switch Numéro de zone et mode



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## **DIRECT ON DEMAND**

In this mode, the visitor just needs to press the 'Play' button to start the appropriate message.  
When the 'Play' button is latched, the XPerience scans the frequency to find the message number to start.  
This message number is given by the EMZ RF1.

To configure the EMZ RF1 in 'Direct On Demand' mode:

1. Dipswitches 11 & 12 off
2. Configure dipswitches 1 to 10 to adjust the zone number to trigger. See conversion table
3. Shortcut the 'Start' input trigger

In this mode, several emitters may not interfere each other. The distance between 2 EMZ RF1 depends of the building structure and have to be tested on site. This distance is between 10 and 50m.

To use this triggering mode, 'Direct On Demand' option must be selected in the status of iGuide and, the messages that are to be triggered by RF, must have 'RF Synchronization' option selected in the main iGuide window.

## **ZONE ON DEMAND**

In this mode, the visitor starts a message in synchronization with any other show as a video, a diarama, a light show, etc.

The visitor just needs to key the message number and the 'Play' button to start the message in synchronization.  
If he/she is to far from the EMZ RF1, a message will invite him to get closer.

In this mode, the EMZ RF1 can be close to each other, even joined.

Rem: only one rule is to be followed with this triggering mode. If the EMZ RF1 is configured to trigger message n°X, no EMZ RF1 emitting zone n° X+32 or X+2x32 or X+3x32 or X+4x32 and so on, should be in the same room. They would interfere each other.

### **To configure EMZ RF1 in 'Zone On Demand' mode:**

#### With contact input trigger:

1. Dipswitches 11 and 12 off
2. Configure dipswitches 1 to 10 to adjust the zone number to trigger. See conversion table
3. Shortcut the 'Start Synchro' input trigger
4. As long as the input is closed, the EMZ RF1 starts emitting the triggering code (led blinking) and increments the timecode. Once the input is released, the EMZ RF1 stops emission (led off) , resets the timecode and waits for another trigger

#### With contact digifrequency trigger:

1. Dipswitches 11 off and 12 on
2. Configure dipswitches 1 to 10 to adjust the zone number to trigger. The zone number emitted will be the zone number configure on dipswitches 1->10 + the digifrequency number
3. Connect the 'Digifréquence' input to the MicroAMP or MicroDVP output
4. Once the EMZ RF1 receives a start digifrequency, it starts emitting the triggering code and incerments the timecode (led blinking). Once a stop code is received, the EMZ RF1 stops emitting (led continuously on), resets the time code and waits for an other start digifrequency

To use this triggering mode, 'Direct On Demand' option must be unselected in the status of iGuide and, the messages that are to be triggered by RF, must have 'RF Synchronization' option selected in the main iGuide window.

See digifrequency for XP datasheet to know how to integrate the digifrequencies in the video.

Note: 'Direct On Demand' and 'Zone On Demand' messages cannot be mixed in the same audiotour.



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### **Note regarding the DigiFrequency mode:**

The DigiFrequency mode is the recommended way to synchronize as it is easy to put in place.

In case the MicroDVP RSF mpeg2 video player is used to play the videos, the connection between the RF emitter and the MicroDVP is direct.

In case a regular video player (a DVD for example) is used instead of the MicroDVP, it is recommended to use a Micro-AMP (a digital audio amplifier 2 X 10W) in between the line output of the video player and the RF emitter input.

In this case a MicroAMP is used, this is powered in 12V and can use the same power supply as the HF emitter.

### **ADJUSTING THE RF POWER**



The RF emission can be adjusted using the 4 jumpers here above.

3 predefined levels are set as low, medium and high; and by selecting the last jumper, you can make the RF power vary by adjusting the rotative potentiometer.

Rem: RF signal covered area always depends of some environmental parameters and can change with these parameters.

### **Instructions on how to deport an antenna:**

Use a 50 ohms coaxial cable with a 30 meters maximum length.

Weld one end to an RCA plug and strip 15,5 cm of the cable's shielding from the other end.



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# PROGRAMMING THE ZONE NUMBER

***EXAMPLE:***

To program the zone 364:

$$364 = 12 + 352$$



ON 1 2 3 4 5 6 7 8 9 10

$$12 + 352$$

	1 2 3 4 5		6 7 8 9 10
0		0	
1		32	
2		64	
3		96	
4		128	
5		160	
6		192	
7		224	
8		256	
9		288	
10		320	
11		352	
12		384	
13		416	
14		448	
15		480	
16		512	
17		544	
18		576	
19		608	
20		640	
21		672	
22		704	
23		736	
24		768	
25		800	
26		832	
27		864	
28		896	
29		928	
30		960	
31		992	



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