

**IBCrazy 5.8 GHz Mad Mushroom Antenna (RHCP)**  
 Item #1567 Manufacturer: Video Aerial Systems  
<https://www.getfpv.com/ibcrazy-5-8-ghz-mad-mushroom-antenna.html>  
 • Gain: 1.5dbi • Axial ratio: 0.73 • Beam width: very wide band  
 • Can be used as both transmit and receive antenna



**IBCrazy 5.8 GHz 13dBic Pepperbox Antenna (RHCP)**  
 Item #2743 Manufacturer: Video Aerial Systems  
<https://www.getfpv.com/fpv/antennas/ibcrazy-5-8-ghz-13dbic-pepperbox-antenna.html>  
 • Gain: 13dbic • Axial ratio: 1.0  
 • Beam width: 160 degrees • Beam height: 60 degrees



Differences between RP and non-RP connectors				
	RP plug	RP jack	non-RP plug	non-RP jack
Screw	inside	outside	inside	outside
Pin	no	yes	yes	no
Hole	yes	no	no	yes



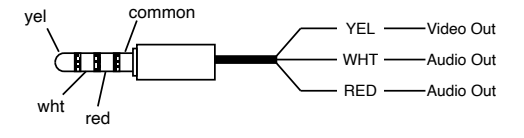
**Lumenier RX5GDR V2 48CH 5.8G AV Diversity Receiver Item #4278**  
<https://www.getfpv.com/lumenier-rx5gdr-5-8g-av-diversity-receiver-with-raceband.html>  
 48 channels: Covers A, B, E, F, R and D bands, 5362-5945MHz  
 2x Diversity SMA Antenna connectors, separate A/V output A or B, or diversity output  
 Compatible with Lumenier, Fatshark, ImmersionRC, Boscama, Foxtech and other generic branded FPV transmitters within the same frequency range.

**Lumenier RX5GDR-V2 receiver frequencies**

Band	Ch 1	Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	Ch 7	Ch 8
Band 1 A	5865	5845	5825	5805	5785	5765	5745	5725
Band 2 B	5733	5752	5771	5790	5809	5828	5847	5866
Band 3 C	5705	5685	5665	5645	5885	5905	5925	5945
Band 4 D	5740	5760	5780	5800	5820	5840	5860	5880
Band 5 E	5658	5695	5732	5769	5806	5843	5880	5917
Band 6 F	5362	5399	5436	5473	5510	5547	5584	5621

**Operating Instructions**  
 Manual A Manually set frequency for A Receiver.  
 Long press "Channels" button to change band. Short press to change channel.  
 Manual B Manually set frequency for B Receiver.  
 Long press "Channels" button to change band. Short press to change channel.  
 Auto A Auto search frequency for A Receiver.  
 Long press "Channels" button to search active frequencies. Short press to cycle through active channels.  
 Auto B Auto search frequency for B Receiver.  
 Long press "Channels" button to search active frequencies. Short press to cycle through active channels.  
 Comp A Auto Auto search frequencies for A and B Receivers (Diversity Mode).  
 Long press "Channels" button to search active frequencies. Short press to cycle through active channels.  
 Comp A Manual Manually set frequencies for A and B Receivers (Diversity Mode).  
 Long press "Channels" button to change bands. Short press to change channels.  
 Note: The auto search feature may find multiple channels that are close to the transmitting frequency. Make sure to cycle through to the correct channel.

**Lumenier RX5GDR-V2 receiver A/V out pinout**  
 for 3.5mm phone plug to three RCA female AV adapter cable



**Black Mamba TX5820-V2 5.8 GHz A/V xmitter freq**

Band	Ch 1	Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	Ch 7	Ch 8
A	5865	5845	5825	5805	5785	5765	5745	5725
B	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880

- Drawing Index:**
- PM-E1000 General Wiring Diagram
  - PM-E1001 Primary Air-to-Ground Wireless Video Wiring Diagram
  - PM-E1002 Secondary Air-to-Ground Wireless Video Wiring Diagram
  - PM-E1003 I-Gate Station Wiring Diagram
  - PM-E1004 UHF Wireless Video Wiring Diagram
  - PM-E1005 Video Receive, Select, and Stream Wiring Diagram
  - PM-E1006 GPS and PulseOx to APRS Transmitter Wiring Diagram
  - PM-E1007 Weather Station Wiring Diagram
  - PM-E1008 Jumper 2-Way Radio Communications Wiring Diagram
  - PM-E1009 Jumper HF Communications Wiring Diagram
  - PM-E1010 Slow Scan Television SSTV Camera Wiring Diagram
  - PM-E1011 Eachine Mini Video Recorder for FPV drones Wiring Diagram
  - PM-E1012 Video Distribution System Wiring Diagram

REV	DATE	REVISION DESCRIPTION	DRAWN	APP
9	8-3-21	Replaced Sansui TV sets with block diagram with Eachine recorders, inserted pinout to AV out from Lumenier receiver.	MF Wright	
8	3-20-18	Replaced Crosshair antenna with Mad Mushroom omni antenna.	MF Wright	
7	3-16-18	Replaced 5.8 GHz receiver with Lumenier and IB Crazy antennas as recommended by Jason Howard K6DGN	MF Wright	
6	8-19-16	Re-arranged video inputs, changed LZ camera to 427 MHz.	MF Wright	
5	10-14-15	Changed note that 5.8 GHz antenna is large dish antenna.	MF Wright	
4	10-13-15	Updated drawing numbers.	MF Wright	
3	10-6-15	Corrected drawing numbers.	MF Wright	
2	10-5-15	Added specs and instructions for RC832 receiver.	MF Wright	
1	10-2-15	Added freq info on other A/V units, changed consultant.	MF Wright	
0	10-1-15	initial release	MF Wright	

**PARACHUTE MOBILE "In The Air, On The Air"**  
[www.parachutemobile.org](http://www.parachutemobile.org)

**Parachute Mobile Communication Systems**  
**Video Receive, Select, and Stream Wiring Diagram**

DRAWN	CHK	INDEX	FSCM. NO.	LIMITS UNLESS NOTED
MF WRIGHT				
DESIGN ENGR MF WRIGHT	TEAM POSITION Video Ops	DATE 8-3-21		
CONSULTANT Jason Howard	AS DWG NO Sheet 1 of 1			REV 9
TEAM COORDINATOR R. FENN	SCALE NONE			

FILE NAME: ParachuteMobile\_E1005