

APPENDIX 2. FREQUENCY CHARTS



CA.81RB

8 receiver 1u wireless microphone system with bodypack transmitters

THANK YOU

We are so happy you selected our wireless microphone system.



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SYSTEM COMPONENTS

Each system includes a receiver and 8 transmitters – bodypack elements are optional

- RFB.1BP Bodypack Transmitter
- RFB.81R 1u 8x Receivers
- RFB.PS8 Power Supply (12v 2A)

Band G: 490-530 Mhz

Receivers A,C,E & G

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	490.20	26	495.20	51	500.20	76	505.20
2	490.40	27	495.40	52	500.40	77	505.40
3	490.60	28	495.60	53	500.60	78	505.60
4	490.80	29	495.80	54	500.80	79	505.80
5	491.00	30	496.00	55	501.00	80	506.00
6	491.20	31	496.20	56	501.20	81	506.20
7	491.40	32	496.40	57	501.40	82	506.40
8	491.60	33	496.60	58	501.60	83	506.60
9	491.80	34	496.80	59	501.80	84	506.80
10	492.00	35	497.00	60	502.00	85	507.00
11	492.20	36	497.20	61	502.20	86	507.20
12	492.40	37	497.40	62	502.40	87	507.40
13	492.60	38	497.60	63	502.60	88	507.60
14	492.80	39	497.80	64	502.80	89	507.80
15	493.00	40	498.00	65	503.00	90	508.00
16	493.20	41	498.20	66	503.20	91	508.20
17	493.40	42	498.40	67	503.40	92	508.40
18	493.60	43	498.60	68	503.60	93	508.60
19	493.80	44	498.80	69	503.80	94	508.80
20	494.00	45	499.00	70	504.00	95	509.00
21	494.20	46	499.20	71	504.20	96	509.20
22	494.40	47	499.40	72	504.40	97	509.40
23	494.60	48	499.60	73	504.60	98	509.60
24	494.80	49	499.80	74	504.80	99	509.80
25	495.00	50	500.00	75	505.00	100	510.00

Receivers B,D,F & H

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	510.20	26	515.20	51	520.20	76	525.20
2	510.40	27	515.40	52	520.40	77	525.40
3	510.60	28	515.60	53	520.60	78	525.60
4	510.80	29	515.80	54	520.80	79	525.80
5	511.00	30	516.00	55	521.00	80	526.00
6	511.20	31	516.20	56	521.20	81	526.20
7	511.40	32	516.40	57	521.40	82	526.40
8	511.60	33	516.60	58	521.60	83	526.60
9	511.80	34	516.80	59	521.80	84	526.80
10	512.00	35	517.00	60	522.00	85	527.00
11	512.20	36	517.20	61	522.20	86	527.20
12	512.40	37	517.40	62	522.40	87	527.40
13	512.60	38	517.60	63	522.60	88	527.60
14	512.80	39	517.80	64	522.80	89	527.80
15	513.00	40	518.00	65	523.00	90	528.00
16	513.20	41	518.20	66	523.20	91	528.20
17	513.40	42	518.40	67	523.40	92	528.40
18	513.60	43	518.60	68	523.60	93	528.60
19	513.80	44	518.80	69	523.80	94	528.80
20	514.00	45	519.00	70	524.00	95	529.00
21	514.20	46	519.20	71	524.20	96	529.20
22	514.40	47	519.40	72	524.40	97	529.40
23	514.60	48	519.60	73	524.60	98	529.60
24	514.80	49	519.80	74	524.80	99	529.80
25	515.00	50	520.00	75	525.00	100	530.00

Band H: 530-580 Mhz

Receivers A,C,E & G

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	530.25	26	536.50	51	542.75	76	549.00
2	530.50	27	536.75	52	543.00	77	549.25
3	530.75	28	537.00	53	543.25	78	549.50
4	531.00	29	537.25	54	543.50	79	549.75
5	531.25	30	537.50	55	543.75	80	550.00
6	531.50	31	537.75	56	544.00	81	550.25
7	531.75	32	538.00	57	544.25	82	550.50
8	532.00	33	538.25	58	544.50	83	550.75
9	532.25	34	538.50	59	544.75	84	551.00
10	532.50	35	538.75	60	545.00	85	551.25
11	532.75	36	539.00	61	545.25	86	551.50
12	533.00	37	539.25	62	545.50	87	551.75
13	533.25	38	539.50	63	545.75	88	552.00
14	533.50	39	539.75	64	546.00	89	552.25
15	533.75	40	540.00	65	546.25	90	552.50
16	534.00	41	540.25	66	546.50	91	552.75
17	534.25	42	540.50	67	546.75	92	553.00
18	534.50	43	540.75	68	547.00	93	553.25
19	534.75	44	541.00	69	547.25	94	553.50
20	535.00	45	541.25	70	547.50	95	553.75
21	535.25	46	541.50	71	547.75	96	554.00
22	535.50	47	541.75	72	548.00	97	554.25
23	535.75	48	542.00	73	548.25	98	554.50
24	536.00	49	542.25	74	548.50	99	554.75
25	536.25	50	542.50	75	548.75	100	555.00

Receivers B,D,F & H

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	510.20	26	516.45	51	522.70	76	528.95
2	510.45	27	516.70	52	522.95	77	529.20
3	510.70	28	516.95	53	523.20	78	529.45
4	510.95	29	517.20	54	523.45	79	529.70
5	511.20	30	517.45	55	523.70	80	529.95
6	511.45	31	517.70	56	523.95	81	530.20
7	511.70	32	517.95	57	524.20	82	530.45
8	511.95	33	518.20	58	524.45	83	530.70
9	512.20	34	518.45	59	524.70	84	530.95
10	512.45	35	518.70	60	524.95	85	531.20
11	512.70	36	518.95	61	525.20	86	531.45
12	512.95	37	519.20	62	525.45	87	531.70
13	513.20	38	519.45	63	525.70	88	531.95
14	513.45	39	519.70	64	525.95	89	532.20
15	513.70	40	519.95	65	526.20	90	532.45
16	513.95	41	520.20	66	526.45	91	532.70
17	514.20	42	520.45	67	526.70	92	532.95
18	514.45	43	520.70	68	526.95	93	533.20
19	514.70	44	520.95	69	527.20	94	533.45
20	514.95	45	521.20	70	527.45	95	533.70
21	515.20	46	521.45	71	527.70	96	533.95
22	515.45	47	521.70	72	527.95	97	534.20
23	515.70	48	521.95	73	528.20	98	534.45
24	515.95	49	522.20	74	528.45	99	534.70
25	516.20	50	522.45	75	528.70	100	534.95

Purchased from:

SPECIFICATIONS

System CA.81:

Carrier Frequency:	G: 490-530MHz and H: 530-580MHz
Frequency Stability:	0.05%
Modulation Type:	FM
Frequency Response:	40Hz – 18kHz
Signal to Noise Ratio:	>105dB
Total Harmonic Distortion:	<=0.5%
Workable Range:	500FT (160m) clear line of sight
Safe Operating Temperature:	-5 to +133 degree F (-20 to +60 degrees C)

Receiver CA.81R:

Tuning System:	PLL Loop, True Diversity Antennas (2 sets)
Sensitivity:	-105dB
Signal to Noise Ratio:	>105dB
Mix Out Level:	Unbalanced ¼” Tip Sleeve – 0.5v @ 5k ohms
Balance XLR Output Level:	Balance Line on XLR – 0.5v @ 2k ohms
Power Requirement:	12-15v DC @ 2A (included power supply)
Dimensions:	19” x 1.75” x 12” (plus connectors)
Weight:	8lb 13oz (4.0kg)

Bodypack Transmitter RFB.1BP:

Transmitter Power:	5mW or 10mW selectable
Spurious Emission:	>45dB
Battery Requirement:	2x AA Alkaline or NiMH cells
Current Consumption:	100-130mA
Battery Life:	approx. 8 hours on premium alkalines
Dimensions (HxWxD):	4.25” x 2.375” x 0.8” (plus antenna & belt clip)
Weight:	3.1oz (88g) (plus batteries)

WARRANTY – 1 YEAR LIMITED

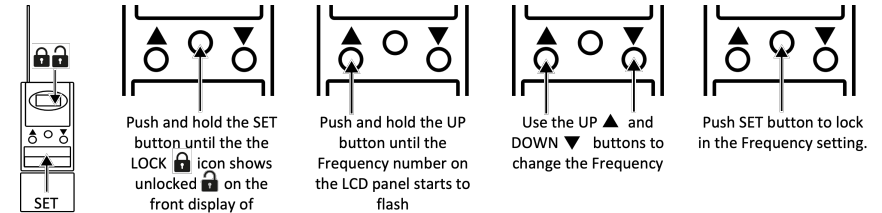
Reilly SR LLC – CREATIVE AUDIO TECHNOLOGIES – warrants this product against faulty materials or workmanship for 2 years from date of purchase. Coverage DOES NOT extend to physical damaged incurred after delivery, damage caused by failing to follow the guidelines in this instruction guide, damage caused by any attempt to repair the item by third parties or any product that has had its Serial Number erased, changed or removed.

We will repair or replace covered items at our discretion. Email us at creative@av2020.com before returning an item

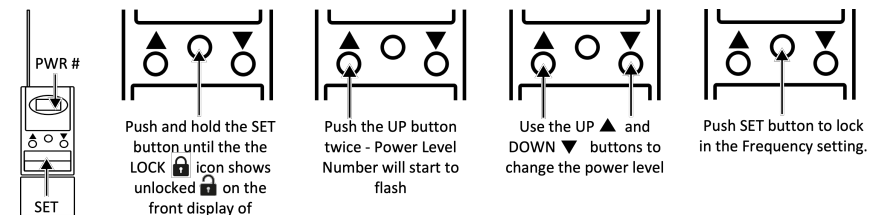
APPENDIX 1.

Modifying Settings of the Transmitters

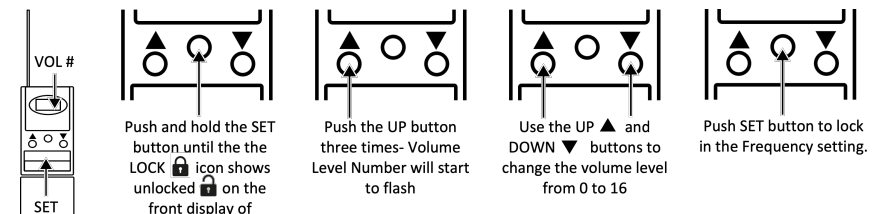
CHANGE FREQUENCY:



CHANGE TRANSMITTER POWER:

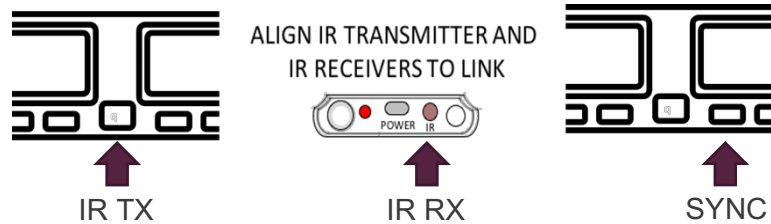


CHANGE TRANSMITTER VOLUME:



SYNCING TRANSMITTERS

1. With receiver powered on, POWER on the first transmitter.
2. Hold IR receiver (IR RX) window on top of transmitter about 6" away from the IR transmitter (IR TX) window in the center of the receiver panel so they are facing each other with clear line of sight – think TV remote (only closer together).



3. Push the SYNC button for the receiver channel you are trying to link to
4. After a few seconds the transmitter and receiver should be linked – RF meter on the LCD display for the receiver channel should indicate that RF signal is present.
5. If the transmitter is a handheld, speak into the microphone and confirm that audio is registering on the display. If using a bodypack transmitter, connect a microphone then speak into the microphone and check the display for audio.
6. Repeat for the remainder of the transmitters that need to be sync'd.

SCANNING FOR AVAILABLE FREQUENCIES

1. On the first receiver (A) push the SCAN button. The display will move thru frequencies until it finds the first available clear channel.

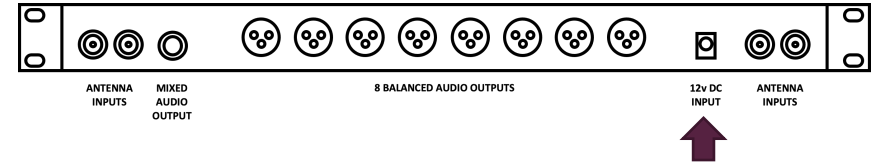


Now SYNC the first transmitter to the first receiver channel (see above).

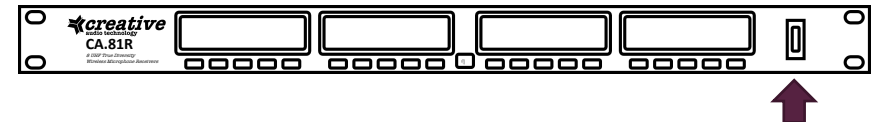
2. Leave first transmitter turned on, and repeat Step 1 for the second receiver (B).
3. Repeat Step 2 with the second transmitter.
4. Repeat Steps 1 and 2 until all 8 receivers and transmitters are active.

QUICK START GUIDE

1. Plug RFB.PS8 Power Supply into the RFB.81R receiver, then connect the power supply into an AC outlet.



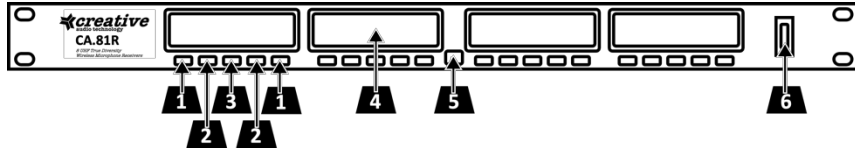
2. Connect the Mix Out (1/4" plug) or the 8x Balanced XLR outputs (Female XLR plug) to your mixer. Now turn on the POWER switch.



3. Out of the box, each microphone transmitter is matched to a receiver channel. If there is any receiver channel picking up a strong RF signal it may be necessary to scan to select a new channel. (see RF Scan).
4. Install batteries in each of the transmitters.
 - Turn transmitters on one at a time, making sure it connects to just one receiver.
 - Keep the transmitter at least 6 feet from the receivers to prevent intermodulation interference. If it doesn't connect, then you will need to sync the transmitter to the receiver channel.

FEATURES CA.81R RECEIVER

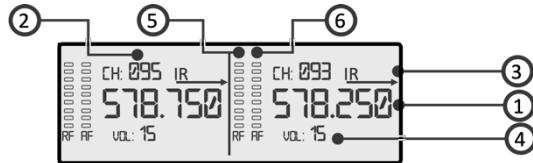
Front Panel:



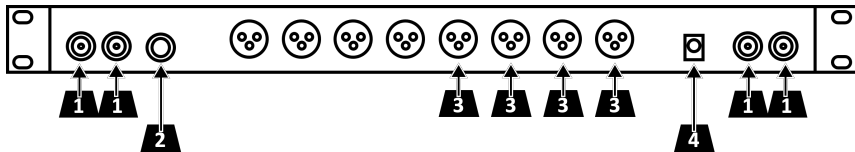
1. SYNC Button (1 per receiver channel) – push and hold while holding IR Receiver on a transmitter in front of IR transmitter lens (5).
2. SCAN Button (1 per receiver channel) – push to find the next available free channel.
3. SET Button (1 per pair of receiver channels) – full description of function to follow
4. DISPLAY – shows Channel, Frequency, RF Strength, Audio Strength, IR
5. IR TRANSMITTER lens – allows you to sync a transmitter to a receiver channel
6. POWER rocker switch

Displays:

1. Frequency Display (MHZ)
2. Channel Number
3. IR Sync Progress
4. Output Volume (1 to 16)
5. RF Signal Strength Meter
6. AF (Audio) Strength Meter

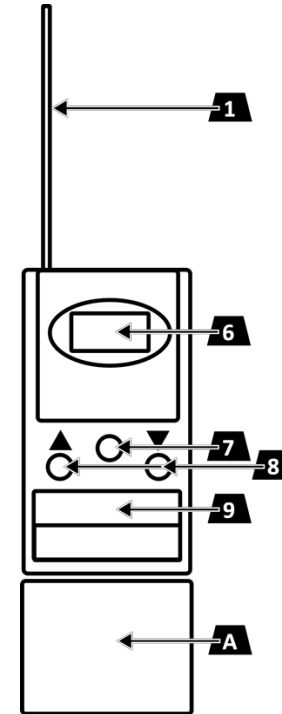


Back Panel:

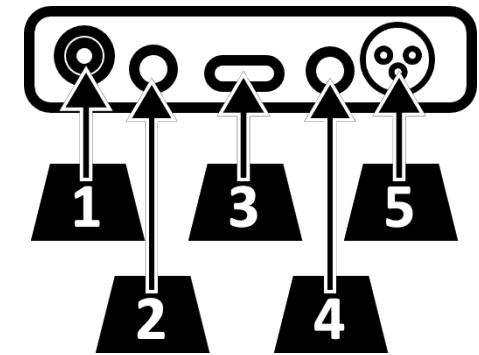


1. BNC antenna sockets – 2 pairs for true diversity reception – each pair feeds four receiver channels
2. MIX OUT – 1/4" socket provides a mix of all 8 channels – can volume be adjusted via display panel?
3. BALANCED OUTPUTS – 8x line level balanced XLR outputs – nominal -10dB
4. DC Input jack – 2.1mm x 5.5mm coax DC connector – 12v-15c DC 2A supply needed (included)

FEATURES RFB. 1BP TRANSMITTER



1. Flexible receiving antenna
2. IR Sync receiver
3. Power On Switch
4. On/Low Battery Indicator
5. Microphone input socket
6. LCD display
7. SET function button (long press)
8. Up/Enter and Down buttons
9. Battery compartment (2xAA)
- A. Battery lid



LCD Display (6) Detail:

1. Frequency display (MHz)
2. Channel number assigned to that frequency
3. Transmitter power – 5 or 10mW
4. Mic output volume
5. Battery level meter
6. Lock/Unlock icon. *When locked you cannot accidentally change any of the transmitters parameters*

