

BLUE ARROW

R3PX V4 Series Micro Receiver Instruction Manual

- * BLUEARROW R3Px V4 series micro receivers are upgraded version of the popular R3Px II series receivers with much better performance.
- * R3Px V4 series are BLUEARROW newly developed high performance micro receivers with digital circuit. The stable performance of these receivers are ensured by BLUEARROW patented technology and unique MCU programming technology.
- * Retaining its auto-shift detection and other distinctive features from their predecessors, R3Px V4 series micro receivers come with better sensitivity (longer receiving range) and much higher selectivity (minimal adjacent frequency interference). And their **TWT** low-signal auto-cutoff & protection feature is great to protect your plane from crash.
- * R3PB/6 H/T V4 receiver has standard JR/PUTABA socket (optional vertical pin or horizontal pin),
- * R3P6-J V4 receiver comes with ultra small JST socket
- * BLUEARROW R3Px V4 series micro receivers have two different packages: Shrink wrap or plastic case.

Features:

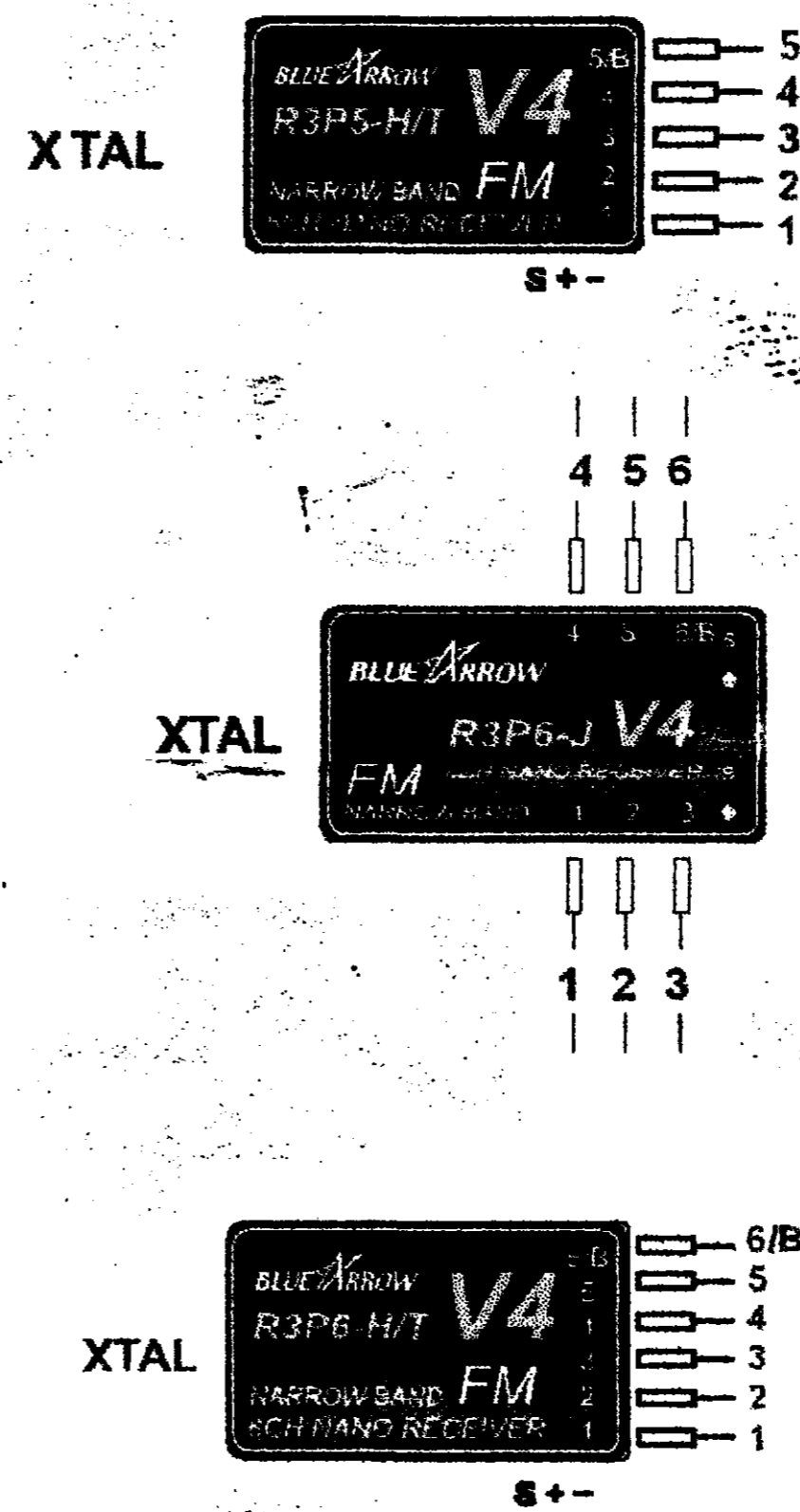
- * Great for indoor flyer and park flyer.
- * Great for lightweight glider and 3D aerobatic model plane.
- * Great for indoor micro electric helicopter.
- * Single conversion, Narrow band, FM PPM.
- * MCU decoding, Automatic shift detection and conversion, compatible with most FM PPM transmitters.
- * Digital filter circuit, ultra narrow band selectivity, effective anti-adjacent frequency interference capability.
- * Compatible with UM-5 or UM-1 RX single conversion crystal.

Specifications:

- Sensitivity: <4.0MV
- Selectivity: -53dB ±6KHz
- Dimensions:
 - R3P5 H/T V4 35mmX15mmX10mm(1.38in x 0.59in x 0.39in)
 - R3P6-J V4 28mmX15mmX8mm(1.10inx0.59inx0.3in)
 - R3P6 H/T V4 35mmX15mmX10mm(1,38in x 0.59in x 0.39in)
- Weight:
 - R3P5 H/T V4 0.18 oz or 5.2g(Horizontal pins) 0.20oz or 5.6g (vertical pins)
 - R3P6-J V4 0.16oz or 4.5g
 - R3P6 H/T V4 0.19 oz or 5.3g(Horizontal pins) 0.20oz or 5.6g (vertical pins)
- Channel:
 - R3P5H/TV4 1-5CH
 - R3P6-J V4 1-6CH
 - R3P6HttV4 1-6CH
- Modulation: FM PPM
- Compatibility: PPM transmitter (automatically compatible with positive and negative shift transmitters like Futaba, JR, Hitec, Multiplex, Sanwa, GWS etc.)
- Effective Receiving ranging.- >300M (>1000feet)
Note: This is the basic spec of R3PX V4 series receivers; field test could exceed this data due to different radio used. If the field test can not meet this data, please check your radio and crystals.
- Interference test: Connect the receiver to servo (radio and receiver should be on the same channel). Turn on another radio on an adjacent channel and put it close to the receiver. The receiver should work properly (servo does not glitch at all).
- Crystal: UM-5 or UM-1 RX single conversion crystal.
- Operating current: 10mA
- Input current: 5V (4-cell) ESC is recommended to power these receivers.
- Available frequency: 35M, 36M, 40M, 41M, 72M.

Wring Explanation:

Proper connection is very important, otherwise it may cause damage.



	JR, SANWA	FUTABA, Hi-tec
CH4	Rudder	Rudder
CH3	Elevator	Throttle
CH2	Aileron	Elevator
CH1	Throttle	Aileron

	JR, SANWA	FUTABA, Hi-tec
CH6	Flap	Flap
CH5	Landing gear	Landing gear
CH4	Rudder	Rudder
CH3	Elevator	Throttle
CH2	Aileron	Elevator
CH1	Throttle	Aileron

	JR, SANWA	FUTABA, Hi-tec
CH6	Flap	Flap
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CH1	Throttle	Aileron

Trouble Shooting:

- If you find that the receiver failed to work, please make sure that your radio and receiver are compatible.
 - It is important to make sure that your radio are FM PPM type or set on PPM mode.
 - Make sure that the crystals on the radio and receiver are on the same channel.
 - Make sure that the crystal is plugged properly, and it should not be loose.
 - Pay attention to connect the power and signal lead correctly
- Radios with different power could affect the actual receiving range. If you find that the receiver does not work or has limited receiving range, please test again with another radio.
- Blue Arrow UM-5 RX crystal is very small (the smallest in the world) but it has the same performance as the larger UM-1 crystal. Due to different standards of crystal manufacturers the frequency may not be exact as labeled. If you should encounter this problem please try another set of crystals and test again.
- Two legs of the crystal could be loose on the socket so you may use an adhesive tape to fix it. Some fans even solder the crystal on the PCB. It is a permitted solution but you should be aware of the welding temperature.
- BlueArrow BA-R3PX V4 series receivers are very small. If you are not an expert, please do not modify the package. We find that some damages are caused by the users when they cut out the heat shrink.
- If you damage the Blue Arrow BA-R3PX series receivers, please don't worry, you can contact the dealer for replacement. Or you can send to us directly for replacement. (On our website: www.bluearrow-rc.com detailed warranty information is listed).
- We warrant the Blue Arrow products to be free of manufacturing defects for the term of two years from the day of purchase, but you should retain your original receipt and entire label as proof of purchase.
- Declaration: This warranty does not apply to resulting from accident, misuse, abuse, neglect, electrical surges, and improper installation and repair the product by unauthorized technician.
- We give you information on some frequently asked questions on our website www.bluearrow-rc.com, please pay attention to it. You can also send e-mails to bluearrow@kair.com, our engineers will give your reply in time

Thank you for choosing BlueArrow products, We hope the outstanding performance of our products will bring more fun to your flying experience,