

								Е	Bluetoo	th4.0 c	ommu	nicatio	proto	col								
General protocol		state of movemnrt		rotate		whistle		accelerate and		PTZ servo		sing		light		outfire		Servo reset				
	1	2	3	4	5	6	7	decelerate 8	9	10	11	12	13	14	15	16	17	18	19		Analytical position	1
	Data packet header	Command bit_1	Separator symbol	Command bit_2	Separator symbol	Command bit_3	Separator symbol	Command bit_4	Separator symbol	Command bit_6	Separator symbol	Data bit_8	Separator symbol	Data bit_9	Separator symbol	Data bit_10	Separator symbol	Data bit_11	Data Packet tail22		Remarks	
stop run	\$	0	,	0	,	0	,	0	,	0	,	0	,	0	,	0	,	0	#			
back turn left	\$ \$	2 3	, ,	0	,	0	, ,	0	,	0	, ,	0	,	0	, ,	0	, ,	0	#			
turn right spin left		0	,	0	,	0	, ,	0		0	, ,	0	,	0	,	0	, ,	0	#			
spin right whistle	\$	0	,	0	,	0 1 0	,	0	,	0	,	0	,	0	,	0	,	0	#			
decelerate Front servo ,	\$	0	,	0		0	,	2		0	,	0		0		0	,	0	#			
turn left Front servo ,	ľ	0	,	0	,	0	,	0	,	1	,	0	,	0	,	0	,	0	#			
turn right Vertical servo,	-	0	,	0	,	0	,	0	,	2	,	0	,	0	,	0	,	0	#			
turn up Vertical servo,	ľ	0	,	0	,	0	,	0	,	4	,	0	,	0	,	0	,	0	#	1		
turn down horizontal	ľ	0		0	,	0		0		6		0		0	,	0		0	#			
servo, turn left horizontal	ľ	0		0		0		0		7		0		0		0		0	#	Just fo	erry Pi	
servo, turn horizontal	ľ	0		0		0		0		8		0		0		0		0	#			
Vertical servo	\$	0	,	0	,	0	,	0	,	5	,	0	,	0	,	0	,	0	#	1		
reset sing	\$	0	,	0	,	0	,	0	,	0	,	1	,	0	,	0	,	0	#		porarily not suppo	
light	\$	0	,	0	,	0	,	0	,	0	,	0	,	1	,	0	,	0	#		e, 2, red, 3: green, nta 7, yellow 8, ex	
outfire Front servo,		0	,	0	,	0	,	0	,	0	,	0	,	0	,	0	,	0	#			
reset	,	0	,	0	,	o .	,	0	,	0	,	0	,	Ů.	,		,	-	#			
Read Sensor return value				ultr	asonic		volt	age		Gray	scale		tracki	ng			dobstacle dance		Ligh	nt-seeking		
	Data	Command	Separator	Command	t	Separator	Command	lu	Separator	Command		Separator	Command		Separator	Comman	tu-	Separator	Command		Date Darket tell	
	packet header	bit	symbol	word	value	symbol	word	value	symbol	word GS	value	symbol	word	value	symbol	d word HW	value	symbol	word GM	value	Data Packet tail	
Remarks		4WD SB125,PV8.3,	GS214 F10			,	rv	VALUE		G3	VALUE	,	L1L2R1	VALUE 1R2	,	nvv	VALUE L1R1	,		L1R1	*	
<u>-5</u>	,-wo,	.30123,1 vo.3,	03214,6110.		oulatorJ1		manipu	ılatorJ2		manipu	latorJ3		manipula	atorl4		manin	ulatorJ5		man	nipulatorJ6		1
manipulator reading				manı	Julatoriji		manipo	ilatorija		Папра	1810133		mampuic	10134		шатр	diatorss		IIIaii	ipulatorso		
	Data packet	Command	Separator	Command	value	Separator	Command	value	Separator	Command	value	Separator	Command	value	Separator	Comman d	value	Separator	Command	value	Data Packet tail	
	header	bit 4WD	symbol ,	word J1	VALUE	symbol ,	word J2	VALUE	symbol	word J3	VALUE	symbol ,	word J4	VALUE	symbol ,	word J5	VALUE	symbol	word J6	VALUE	#	1
Remarks					0~180°			0~180°			0~180°			0~180°			0~180°			0~180°]
Gyro reading				MP	U6050		MPU	6050		MPU	6050		MPU60	050		MPL	J6050		М	PU6050]
	Data packet	Command bit	Separator symbol	Command word	value	Separator symbol	Command word	value	Separator symbol	Command word	value	Separator symbol	Command word	value	Separator symbol	Comman d	value	Separator symbol	Command word	value	Data Packet tail	
	header \$	4WD	,	MPUgx	VALUE	,	MPUgy	VALUE	,	MPUgz	VALUE	,	MPUax	VALUE	,	word MPUay	VALUE	,		VALUE	#	
Remarks																						i
manipulator				manij	oulatorJ1		manipu	ilatorJ2		manipu	latorJ3		manipula	atorJ4		manip	ulatorJ5		man	nipulatorJ6		
reading	Data															Comman						
	packet header		Separator symbol	Command word	value	Separator symbol	Command word	value	Separator symbol	Command word	value	Separator symbol	Command word		Separator symbol	d word	value	Separator symbol	Command word	value	Data Packet tail	
Remarks		4WD	,	ServoJ1	VALUE 0~180°	,	J2	VALUE 0~180°	,		VALUE 0~180°	,	J4	VALUE 0~180°	,	J5	VALUE 0~180°	,		VALUE 0~180°	#	1
				1	' Servo		I				•			•	•		•					
control servo P	Data	Command	Senarator	Command		Data																
	packet header	bit	symbol	word	value	Packet tail																
Remarks	\$	4WD	,	PTZ	VALUE 0~180°	#																
					R		(3		E	3											
conrol colorLED	Data	Command	Separator	Command		Separator	Command		Separator	Command		Data										
	packet header	bit	symbol	word	value	symbol	word	value	symbol	word	value	Packet tail										
Remarks	٥	4WD	,	CLR	0~255	,	CLG	VALUE 0~255	,		VALUE 0~255	ef .										
Choose mode				choo	se mode																	
choose mode	Data	Command bit	Separator	Command	value	Data																
	header	4WD	symbol	word MODE	VALUE	Packet tail																
Remarks			ľ		10_11~60_61 10: remote																	
					control mode 20: tracking																	
	\$4WE	,MODE31# op	oen obstacle	avoidance	mode 30: obstacle	second																
Eg			node		avoidance mode	bit: 0																
			node		40: color led 50: light-	1open																
					seeking mode 60:																	