AlphaGrip AG5T(SKR-4300UT) Keyboard with Track-ball

1.General Specification

1.1 USB Standard

The USB keyboard is a bus powered compound device that has an external USB downstream HUB port and an embedded USB composite function device. It is complied with USB standard version 1.1 and HID standard version 1.1. The USB transmission speed for the embedded USB HID keyboard and HID Mouse are 1.5Mbps, which is low speed USB. The USB related spec is available on the web page http://www.usb.org/

1.2 System requirements

The followings are the requirements for using the USB HUB and embedded Keyboard and Mouse.

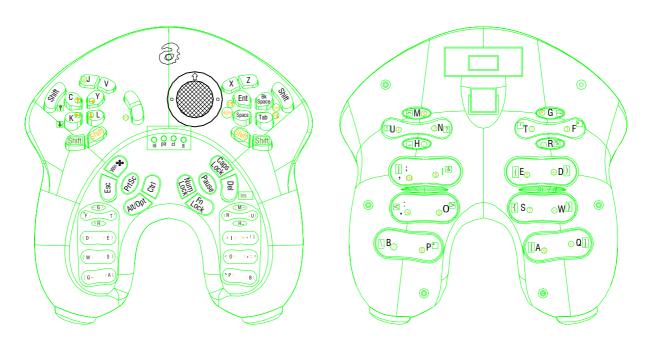
- 1. An USB Downstream port with "A" type connector. The USB Downstream port must have capable to supply 500mA of VCC current.
- Operating system with USB compliant device driver and HID device support. (Windows 98 Second Edition /ME/2000/XP or lather version is recommended). Note: The Windows 98 Second Edition /ME/2000 and Windows XP are registered trademark of Microsoft Corporation.

1.3 Electrical Specification

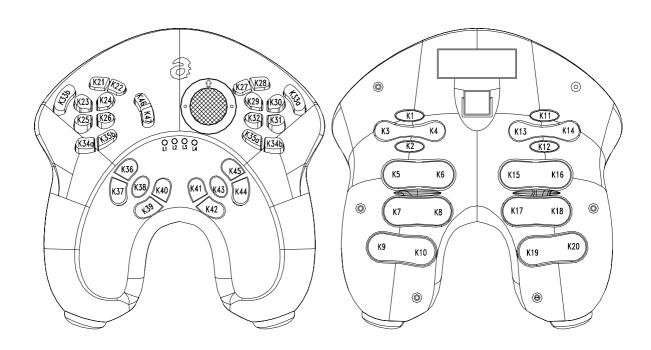
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Connector	a "B" type connector for USB up stream port and a
	"A" type connector for USB down stream port.
USB speed	Low speed (1.5MBPS) for embedded Function,
	Full speed (12MBPS) for integrated USB HUB
Operating voltage range	4.5~5.25V
Operating current	Max 500mA
Operating temperature	0 ~ 40℃
Storage temperature	-40 ~ 60 °C
Operating humidity	0~90% RH non-condensing
Storage humidity	0~95% RH non-condensing

2.Key Position number & Layout

1-1 Key position number



2-2 Key Layout



3.Key Operation

1-1 AG-5 Button/Character Chart

	Vov No Single Koy Capital Letter Punctua		Punctuation Shift	Numbe	er Shift	Caps Lock		Number Lock		Function Lock	
Key No.	Single Key	shift (note 1)	note 2 Shift	note 3 Shift		note 2	Shift	note 2 Shift		note 2	Shift
K1	m	M	٨	\$		М	m	\$			
K2	h	Н	-	ı		Н	h	ı		F12	F12
К3	u	U	-	4		U	u	4		F4	F4
K4	n	N	?	4	2		n	2		F2	F2
K5	1	;		Ent	Ent Ent		,	Ent Ent		_	
K6	i	1	&	6		I		6		F6	F6
K7		:	>	*	*			*			
K8	0	0	<	8	8		0	8		F8	F8
К9	b	В	1	1		В	b	1			
K10	р	Р	`	(0		р	0		F10	F10
K11	g	G	?	#		G	g	#			
K12	r	R	%			R	r			F11	F11
K13	t	Т	-	Ŷ	1		t	1		F1	F1
K14	f	F	н	3	3		f	3		F3	F3
K15	е	Е)	Ε)	5		е	5		F5	F5
K16	d	D	(+	+		d	+			
K17	S	S	}	-	7		S	7		F7	F7
K18	W	W	{		-		W	-			
K19	а	А]	Ç	9		а	9		F9	F9
K20	q	Q	["	=		q	=			
K21	j	J		0	@		j	@			
K22	V	V				V	V				
K23	С	С	Scroll-Up	↑	↑	С	С	1	↑		
K24	у	Υ		\rightarrow	\rightarrow	Υ	у	\rightarrow	\rightarrow		
K25	k	K		+	←	K	k	←	+		
K26	I	L	Scroll-Down	→	\	L	- 1	\	→		
K27	Х	Х				Χ	Х				
K28	Z	Z					Z				

Key No.	Single Key	Capital Letter		tion Shift	Number Shift		Caps Lock		Number Lock		Function Lock	
110)	omgio reoj	shift (note 1)	note 2	Shift	note 3	Shift	note 2	Shift	note 2	Shift	note 2	Shift
K29	Enter	Enter	Enter	Enter	Page Up	Page Up	Enter	Enter	Page Up	Page Up		
K30	Back space	Back space	Back space	Back space	End	End	Back space	Back space	End	End		
K31	Tab	Tab	Tab	Tab	Page Dn	Page Dn	Tab	Tab	Page Dn	Page Dn		
K32	Space	Space	Space	Space	Home	Home	Space	Space	Home	Home		
K33a	Capital Shift											
K33b	Capital Shift											
K34a	Punctuation Shift											
K34b	Punctuation Shift											
K35a	Number Shift											
K35b	Number Shift											
K36	Windows (Command)											
K37	Escape / Escape (note 2)											
K38	Print Screen / Print Screen (note 2)											
K39	Alt (Option)											
K40	Ctrl											
K41	Number Lock											
K42	Function Lock											
K43	Pause											
K44	Delete	Delete	Insert	Insert	Delete	Delete	Delete	Delete	Delete	Delete		
K45	Cap Lock											
K46	Left Click Mid Click Left Click											
K47	Right Click for Mouse											

Note:

- 1. The capital shift key changes the characters in single key group to the characters in capital shift group. In the case of caps lock indication ON, the capital shift key changes the characters in opposite direction. This will minimize the necessity of the caps lock key operation.
- 2. In case of the Capital shift key down, the key codes in red colored letters are generated with shift key depression flag set.
- 3. The number shift key changes the characters in single key group to the characters in number shift group. In the case of number lock indication ON, the number shift key changes the characters in opposite direction. This will minimize the necessity of the number lock key operation.

4. User Manual

AlphaGrip

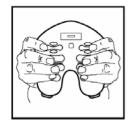
Quick Start User's Guide,

Safety Guide & Disclaimer

Model AG-5 Handheld Keyboard and Trackball

Thank you for purchasing the AlphaGrip, model AG-5, our 5th generation (first time to market) handheld, touch typing keyboard and mouse. AlphaGrip technology enables comfortable, high speed, desk-free typing and gaming on your PC.





The key to the AlphaGrip is the placement of rocker buttons and button clusters on the back of the device. When you grasp the AG-5 your fingers naturally fall on all the buttons you need (including button clusters on the front of the device where your thumbs naturally fall) to generate all the letters of the alphabet with a single keystroke per character. Green and red shift keys let

you generate numbers, punctuations and other functions as well.

By trying an AlphaGrip you are pioneering a new technology that has the potential to become the solution of choice for desk-free data input. Just as the first mechanical typewriter is the ancestor of today's wireless keyboards, word processors, and printers, the AG-5 may well turn out to be the first in a long line of high speed, handheld computing and communication devices.



Our long term goal is to enable people to type as fast as they can think anywhere they do their best thinking. By trying an AlphaGrip you are helping us take an important step toward that goal.

To view and/or print out the AG-5 User Manual, please visit our website, www.alphagrip.com. Suggestion: Figuring out how the AG-5 works without looking at the manual can be fun.

Important Safety Information

Using the AG-5 on a regular basis involves repetitive finger motion. Studies indicate that activities involving repetitive arm, hand, and finger motion may lead to certain types of physical discomfort or injury (Repetitive Strain Injuries, "RSI"), including, but not limited to, Carpal Tunnel Syndrome and tendonitis.

AlphaGrip, Inc., has not conducted extensive studies to analyze the AG-5's ergonomic characteristics and, therefore, does not claim that using the AG-5 is more ergonomic than typing on a standard keyboard or using a game controller or joystick or that use of the AG-5 is ergonomic at all.

When using your AG-5 for extended periods of time you should take frequent breaks, change the position of your arms and body at regular intervals, and/or put your AG-5 down to massage your hands and fingers and to move or stretch other parts of your body especially your shoulders, neck and arms. If you feel pain, numbness, or discomfort in any part of your body while using the AG-5, including, but not limited to, your back, neck, shoulders, arms, wrists, hands, or fingers, discontinue use immediately and consult a healthcare professional.

Use of the AG-5 is at your own risk. AlphaGrip, Inc., its employees, shareholders, consultants, affiliates, marketers, resellers, and manufacturing partners, hereby disclaim any liability whatsoever for any injuries or damages that may arise as a result of your use of the AG-5.

Additional safety guidelines:

- 1. Keep your elbows near your body in a relaxed posture. Do not move them out for support on your chair's arm rests.
- 2. Keep your thumbs and fingers in a relaxed, natural position and press the buttons lightly with your finger tips.
- 3. Try to keep your wrists at a comfortable angle.
- 4. Rest the AG-5 in your lap while typing whenever possible.

QUICK START GUIDE

- 1. The contents of the package in which you received your AG-5 should contain the following:
 - a. One AG-5
 - b. One 10' USB cable
 - c. One desk stand
 - d. One pair of decals



- 2. The decals show you which characters, functions or commands are associated with which back buttons. By affixing the decals on the lower front portions of the AG-5's handles (or on the top front portion on either side of the AlphaGrip logo), you can find what you are looking for without turning the AG-5 over.
- 3. Connect the wider plug at the end of the cable into your computer's USB port and the smaller plug at the other end of the cable into the smaller USB port located on the back of the AG-5 below the larger rectangular USB port (the larger future AG-5 adapters).
- 4. At its core the AG-5 is a standard USB keyboard and trackball. If your running Windows98 or greater, or a Mac running OS X, it should the correct drivers and you should be able to begin typing within a minute or two. If your computer is running Linux or any other operating system, you must determine if and how your computer can be configured to recognize a standard USB keyboard and trackball.
- 5. To avoid accidental activation of buttons, place the AG-5 into the desk stand when not in use.

 You may also press the "Pause" button, located on the lower right front portion of the AG-5.

 Press the Pause button a second time to re-activate the AG-5.
- 6. Adjust the speed of the trackball with the pointing device settings of your computer's operating system.

LIMITATION OF LIABILITY, EXCLUSION OF INCIDENTAL, CONSEQUENTIAL AND CERTAIN OTHER DAMAGES

AlphaGrip, Inc. warrants that for a period of 90 days immediately following the purchase of your AG-5, under normal use, it will be free from defects in material and workmanship. THIS LIMITED WARRANTY APPLIES ONLY TO THE ORIGINAL PURCHASER AND LASTS ONLY FOR AS LONG AS SUCH PURCHASER CONTINUES TO OWN THE PRODUCT. ALPHAGRIP, INC.'S LIABILITY, IMPLIED OR EXPRESS, IS LIMITED TO REPAIR, REPLACEMENT OR REFUND. THESE REMEDIES ARE SOLE AND EXCLUSIVE REMEDIES FOR ANY BREACH OF WARRANTY. ALPHAGRIP, INC. IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR UNDER ANY OTHER LEGAL THEORY INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, DOWNTIME, PERSONAL INJURY, FAILURE TO MEET ANY DUTY INCLUDING OF GOOD FAITH OR OF REASONABLE CARE, NEGLIGENCE, GOODWILL, DAMAGE TO OR REPLACEMENT OF EQUIPMENT AND PROPERTY, AND ANY COSTS OF RECOVERING, REPROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH A SYSTEM TO WHICH THE PRODUCT IS CONNECTED, OR ANY OTHER PECUNIARY OR OTHER LOSS WHATSOEVER, EVEN IF ALPHAGRIP, INC. HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

FCC NOTICE

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITION:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED OPERATION.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.
- Consult the dealer of an experienced radio/TV technician for help.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.