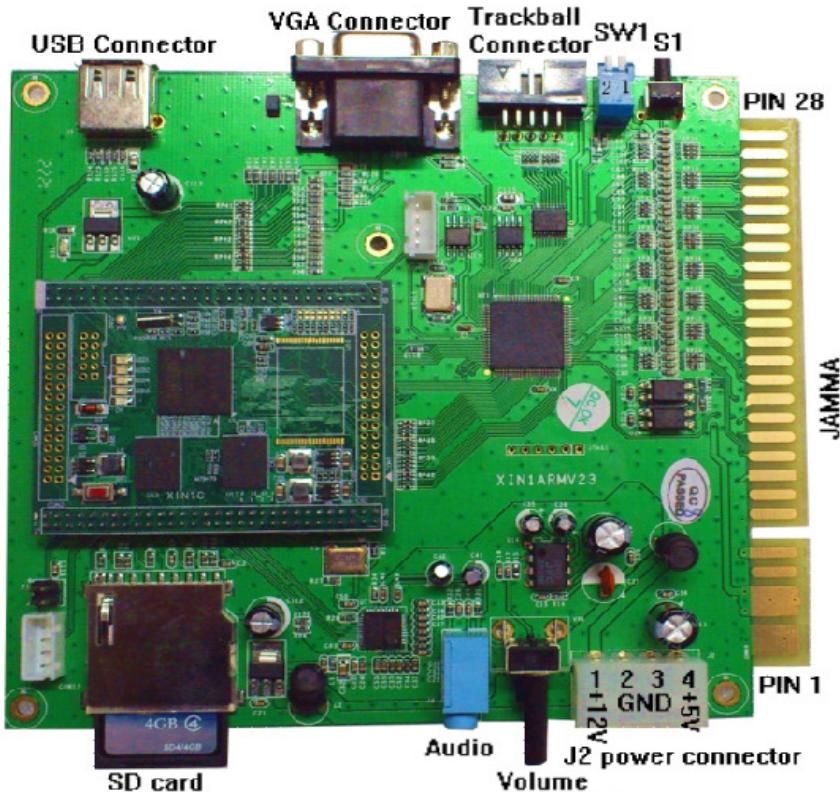

352 in 1 Manual

1	Connector Instruction	1
2	Operation Instruction	2
3	System settings and configuration	3
	I/O Test	4
	Factory Default	5
	Show Serial Number	6
	DIP Switch Setting	7
	Display Mode	7
	System Mode	7
	Flip Screen	7
	Free Play	8
	Game Mode	8
	Free Browse	8
	Stop Time	8
	Music	8
	Language	8
4	Edit Game List	9
5	Single Game Setting and Operation	10
6	Game Configuration Setting	11
7	S1 button function declaration	13
8	JAMMA Wire Map	13
9	Game List	14

Thank you for purchasing this product of our company. In order to have a pleasant experience on playing this combo board, please kindly read this manual carefully before using. This manual includes the production's details, usage and other information.

1. Connector Instruction:



(Figure 1 ,Game board instruction)

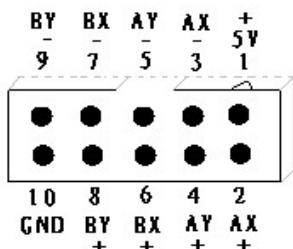
CAUTION: The function of JAMMA connector power and J2 power is same, do not use them together that would destroy game board.

Remark:The picture of user menu only for reference, anydifference, please refers to the products or real figure.

2

Trackball connect instruction

J6 Trackball Connector



Trackball 6P Connector

1 Black	—	GND
2 light green	—	Y +
3 yellow	—	Y -
4 purple	—	X -
5 Green	—	X +
6 Red	—	+ 5V

Please connect the trackball 1P(A) and 2P(B) to J6 connector accordingly.

2. Operation instruction

Connect the game board and switch on the machine power, after the logo of the “game family” disappear, then enter game list menu as the figure 2.



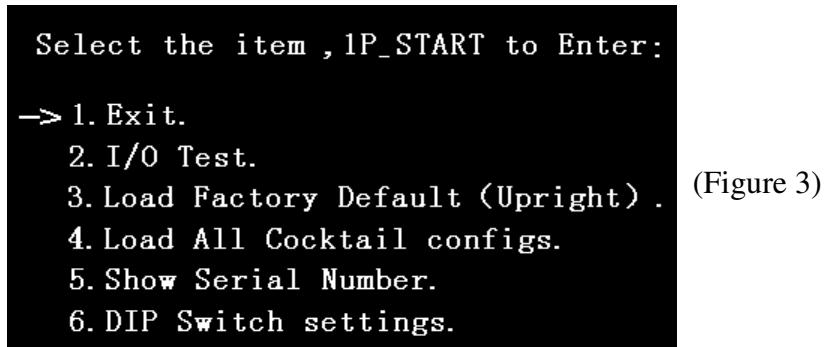
(Figure 2)

- **Caution:** press 1P C button to check the operation instruction.

1. Insert coins first and select game. (Free play or free browse mode needn't insert.)
2. Select game by moving 1P joystick down or up, and left or right moving is to check game list.
3. Press 1P A button to enter game.
4. Press 1P START button for 5 seconds to quit game, and then back to the game list.

3. System settings configuration

- Switch on the machine power, when the logo of the “game family” appear, press and hold S1 button to enter the system Settings menu as the below figure 3.



- Select item by moving 1P joystick down or up and press 1P START to enter.
 - Select “Exit” to quit and then enter to the game list(figure 2) .
- ▲ Notice: the function of the item“4. Load all Cocktail configs” is useless in this game version.

1. I/O Test

- 1) On the system Settings menu (see figure 3), select “2. I/O Test” to enter the I/O test menu as below.

I/O test, 1P_B + 1P_A to quit.				
	1P	2P	DIP switch	SW1
UP	0	0	BIT 1	0
DOWN	0	0	BIT 2	0
LEFT	0	0	BIT 3	0
RIGHT	0	0	BIT 4	0
A	1	0	BIT 5	0
B	0	0	BIT 6	0
C	0	0	BIT 7	0
D	0	0	BIT 8	0
E	0	0		
F	0	0	Button S1	
START	0	0		
COIN	0	0		

(Figure 4)

- 2) This test displays the state of each switch & button. Press button one by one, if the display goes 1, when the switch or button is activated, the connection is satisfactory.
- 3) If the test is ok, press 1P[A+B] button to exit and back to the menu as figure 3.

2. Factory default

- 1) On the system Settings menu of figure 3, select “3. Load Factory Default (Upright)” to enter the menu as figure 5.

```
Sure to load factory default
1P_start to confirm.
1P_A to cancel
```

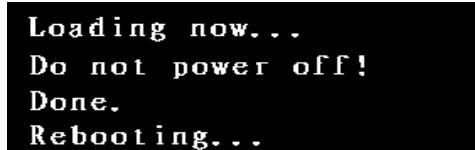
(Figure 5)

- 2) Press 1P START button to confirm to load factory default, refer to the figure 6. After the loading is finished, the system will restart automatically (see figure 7) and enter the game list (figure 2), then the factory default is done.



(Figure 6)

▲ **CAUTION: Do not power off when in processing of loading factory default!.**



(Figure 7)

- 3) Press 1P A button in the menu as figure 5, the factory default setting will be cancelled.

3. Show Serial Number

- 1) On the system Settings menu as figure 3, select “5. show serial Number” to enter and then check the serial numbers.
- 2) After checking, Press 1P A button to exit and back to system menu.
Select “Exit” to exit the system menu and then enter the game list (figure 2)

CAUTION: this serial number is only marked number, We suggest our customers keep this number for convenient service in future

4. DIP Switch settings

- On the system Settings menu (figure 3), select “6. DIP Switch settings” and enter the item as figure 8.

DIP Switch settings:

1. Display Mode: CGA
→ 2. System Mode: Normal play
3. Flip Screen: OFF
4. Free Play: OFF
5. Game Mode: Multiple
6. Free Browse: ON
7. Stop Timer : OFF
8. Music : OFF
9. Language : English

(Figure 8)

1P_LEFT, 1P_RIGHT to change.

1P_START to save settings.

1P_A to quit.

- Select items by moving 1P joystick down or up, and left or right moving is to change the chosen item.
- **Display mode** and **flip screen** are adjusted by the SW1 on the game board. This menu is only to check the current setting state.
- After finished the Setting, press 1P START to save settings (figure 9), press 1P A to back the system menu(see figure 3). Select “EXIT” to quit, the new configuration will be valid after the system atomically reboot.

Saving...

Done. 1P_A to continue.

(figure 9)

1) Display mode

This game board support both VGA and CGA display modes, see the below setting way.

VGA mode (31.5 KHz): Set BIT1 of SW1 ON and the VGA

monitor plug the VGA output connector (JVGA1).

CGA mode (15.75 KHz): Set BIT1 of SW1 OFF to use a regular JAMMA cabinet.

2) System mode

Normal play: Game normal operation mode.

Config/ edit: Game configuration and edit game list mode.

To improve the system stability, please set the item to “normal play” mode if there is no need to set game configuration or edit the game list.

3) Flip screen

Flip screen (ON): Game screen flip 180 degree.

Flip screen (OFF): Close the game screen flipped 180 degree .

Setting way as below:

Set BIT2 of SW1 ON, the screen will be flipped 180 degree. Set BIT2 of SW1 OFF, the game screen flipped 180 degree will be closed.

4) Free play:

Free play (ON): Play all games for free.

Free play (OFF): Disable free play mode .

If set specific game, please set “free play” item to “OFF” and enter the specific game to change the configuration settings, please see the below game configuration settings instruction for details.

5) Game mode

Multiple: Set “game mode” to “multiple”

Single : Set “game mode” to “multiple” ,The details for single mode please referred to in later.

6) Free browse

Free browse (ON): No need to insert coins, free browse and select game to enter.

Free browse (OFF): Insert coins first and then browse or select

game to enter.

7) Stop timer

Stop timer (ON): On the game list menu , the **timer** stop Count down. Player must press 1P A button to enter the game after selecting.

Stop timer (OFF): On the game list menu , the **timer** start Countdown. The player will enter the selected game automatically in 60 seconds.

8) Music

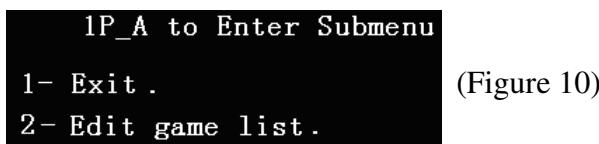
Music (ON):With music on the game list menu.

Music (OFF):Without music on the game list menu.

9) Language: Change the language between English and Chinese.

4. Edit game list

- 1) Enter DIP Switch Setting menu (figure 8), set System mode to Config/Edit mode, save and quit the system settings menu ,then enter the game list (figure 2).
- 2) Before inter the game list (figure2),press any button on the counting screen with “5...4...3”, will show the menu as below figure 10.



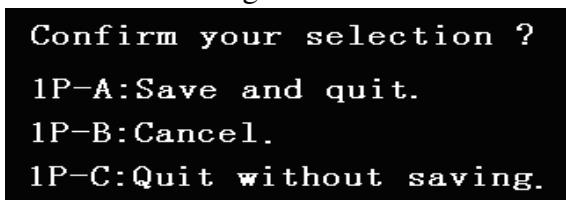
(Figure 10)

- 3) Moving 1P joystick down or up to Select “2>Edit game list” and enter the “edit game list” menu as figure 11.



(Figure 11)

- 4) The item “*” means to show game list, if there is no item “*”, it means to hide game list.
- Select game list by moving 1P joystick and press button A to decide to show or hide the selected game.
- Press 1P B button to show all games and 1P C button to hide all.
- 5) After the game list edition is finished, press 1P START button to enter the save menu as figure 12.



(Figure 12)

- Press 1P A button to save and quit the selection, enter game list later (see figure 2).
- Press 1P B button to cancel and back to edit game list menu (see figure 11), and then continue to edit game list.
- Press 1P C button to quit without saving, then enter game list menu (see figure 2).
- 6) After editing the game list, please enter the DIP Switch settings again (figure 8), set system mode to “Normal play” mode and save.

The game will be started in normal after the system reboot.

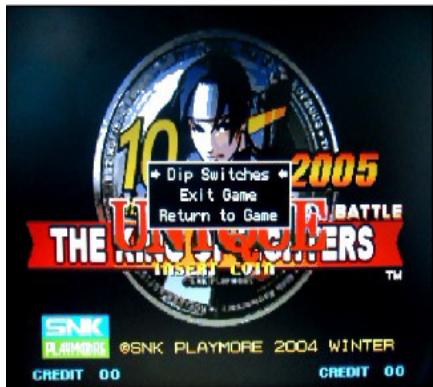
5. Single game setting and operation

- 1) Please refer to “edit game list” as above, and enter the edit game list menu (see figure 11)
- 2) Select game list by moving 1P joystick and press 1P D button to set. If it shows “SET” in front of game title you selected, that means the setting is successful.
- 3) Enter the DIP Switch settings menu as figure 8, set the **Game mode** to Single mode, and **System mode** to “Normal play” mode and save. The single game will be started after entering the game list.

6. Game configuration settings

Way 1 for Game configuration settings:

- 1) Enter the DIP Switch settings menu as figure 8, set **System mode** to “Config/Edit” mode, save and quit the system settings menu, then enter the game list menu (figure 2).
- 2) Moving 1P joystick down or up to select the game you want to change, Press 1P A button to start game and enter the game configuration editor menu as figure 13.



(Figure 13)

(Figure 14)

- 3) Move 2P joystick to select “Dip Switches” and press 2P A button to enter the setting menu(see figure 14).
- 4) Select option by moving 2P joystick down or up, and left or right moving is to change.
- 5) Select “return to main menu” to quit the setting menu after setting, and select “Exit game” to back game list (see figure 2). Restart the game, then new settings is valid.
- 6) Please go on to set other games if there are, and if not, please set System mode to Normal play mode. Enter the game list and the game will be started in normal mode.

Way 2 for Game configuration settings:

Refer to way 1, enter the game configuration editor menu, if choose "Dip Switches" to enter the setting menu as (Figure 15) or (Figure 16):



(Figure 15)



(Figure 16)

- 1) Please set “Service Mode” to “ON”, back to game and enter the game configuration setting menu (for some game, it's need to quit game first, back to game list menu and enter the game again, then available for entering the game configuration setting menu.)
- 2) According to the game configuration setting menu to modify it.

- 3) After finish it, press S1 to show the game configuration setting menu(figure 12) , set “Service Mode” to “OFF” and save it.
- 4) Set the system mode to “Normal play” and enter the normal playing mode.

7. S1 button function declaration

System setting button, press S1 button to enter the system setting menu when the screen show “Game Family” logo (figure 3)

On the Normal play mode, press S1 button to quit and back to the list. (Figure 2).

Config/Edit mode, press S1 button in the game to show the configuration setting menu. (figure 13)

8. JAMMA wire map

Tab3. JAMMA wire map

JAMMA WIRE PAP			
Part side	PIN	PIN	Part side
Definition			Definition
GND	1	1	GND
GND	2	2	GND
+5V	3	3	+5V
+5V	4	4	+5V
/	5	5	/
+12V	6	6	+12V
/	7	7	/
1P COIN METER	8	8	2P COIN METER
JMA9	9	9	JMB9
SPEAKER+	10	10	SPEAKER-
JMA11	11	11	JMB11
VIDEO R	12	12	VIDEO G
VIDEO B	13	13	VIDEO SYNC
GND	14	14	SERVICE
TEST	15	15	JMB15
1P-COIN	16	16	2P-COIN
1P-START	17	17	2P-START
1P-UP	18	18	2P-UP
1P-DOWN	19	19	2P-DOWN
1P-LEFT	20	20	2P-LEFT
1P-RIGHT	21	21	2P-RIGHT
1P-A	22	22	2P-A
1P-B	23	23	2P-B
1P-C	24	24	2P-C
1P-D	25	25	2P-D
1P-E	26	26	2P-E
1P-F	27	27	2P-F
GND	28	28	GND

9. Game List

Game Tornado list (Horizontal)		1/5
001. KOF 2005 Unique	041. Street Fighter II Turbo	
002. SNK vs Capcom Plus	042. Street Fighter II – V004	
003. KOF 2002 Magic Plus 2	043. Operation Ragnagard	
004. KOF 2002	044. Galaxy Fight	
005. KOF 2002 Plus	045. Michael Jackson's Moonwalker	
006. KOF 2002 Super	046. Karate Blazers	
007. King of Gladiator	047. The Punisher	
008. Garou – Mark of the Wolves	048. Captain Commando	
009. KOF 97	049. Blade Master	
010. KOF 97 Plus	050. Hook	
011. KOF 98	051. Sengoku	
012. KOF 99 – Millennium Battle	052. Sengoku 2	
013. KOF 10th Extra Plus	053. Final Fight	
014. KOF 94	054. Ninja Master's	
015. KOF 95	055. Kabuki Klash – Far East of Eden	
016. KOF 96	056. Waku Waku 7	
017. The Last Blade 2	057. Kizuna Encounter	
018. Samurai Shodown	058. Karnov's Revenge	
019. Samurai Shodown II	059. Fight Fever	
020. Samurai Shodown III	060. Savage Reign	
021. Samurai Shodown IV	061. Aggressors of Dark Kombat	
022. Fatal Fury	062. Joe & Mac	
023. Fatal Fury 2	063. X-Men	
024. Fatal Fury 3	064. The Simpsons	
025. Fatal Fury Special	065. Dark Seal	
026. Real Bout Fatal Fury Special	066. Crime Fighters 2	
027. Real Bout Fatal Fury 2	067. Teenage Mutant Ninja Turtles	
028. Art of Fighting	068. Teenage Mutant Ninja Turtles 2	
029. Art of Fighting 2	069. Kodure Ookami	
030. Art of Fighting 3	070. Batman	
031. Breakers	071. Solitary Fighter	
032. Breakers Revenge	072. Dino Rex	
033. World Heroes 2	073. Street Smart	
034. World Heroes 2 Jet	074. Shadow Dancer	
035. World Heroes Perfect	075. Ikari III – The Rescue	
036. Street Fighter II	076. P.O.W. – Prisoners of War	
037. Street Fighter II – Champion	077. Warriors of Fate	
038. Street Fighter II – Rainbow	078. Metal Slug	
039. Street Fighter II – Red Wave	079. Metal Slug 2	
040. Street Fighter II – Hyper Fighting	080. Metal Slug X	

Game Tornado list (Horizontal)

2/5

081. Metal Slug X Plus	121. Prehistoric Isle in 1930
082. Shock Troopers	122. Andro Dunos
083. Shock Troopers 2	123. Pulstar
084. Demon's World	124. Last Resort
085. Street Fight	125. Viewpoint
086. NAM-1975	126. Zed Blade
087. Rambo III (Europe)	127. Airwolf
088. Rambo III (US)	128. Cobra-Command
089. Shoot Out	129. 4-D Warriors
090. Blood Bros.	130. Terra Cresta
091. Sunset Riders	131. Thunder Cross
092. Aurail	132. D-Con
093. E-Swat	133. E.D.F. : Earth Defense Force
094. M.I.A. - Missing in Action	134. Battle Chopper
095. Rolling Thunder 2	135. R-Type
096. Midnight Resistance	136. R-Type II
097. Xybots	137. X Multiply
098. Aliens	138. Dragon Breed
099. The Super Spy	139. Insector X
100. Thunder Fox	140. Hellfire
101. Growl	141. Viper
102. Crime City	142. Terra Force
103. Aero Fighters 2	143. Chuka Taisen
104. Aero Fighters 3	144. Silk Worm
105. Blazing Star	145. Zero Wing
106. Super Real Darwin	146. Rabio Lepus
107. Silkworm	147. Shinobi
108. Ghost Pilots	148. King of the Monsters
109. U.N. Squadron	149. King of the Monsters 2
110. Area 88	150. Strider
111. Alpha Mission II	151. Ninja Combat
112. Carrier Air Wing	152. Cyber-Lip
113. Gradius	153. Blue's Journey
114. Gradius II - GOFER no Yabou	154. Magician Lord
115. Vulcan Venture	155. Ghouls'n Ghosts
116. Gradius III	156. Mega Twins
117. Parodius DA!	157. Chiki Chiki Boys
118. Salamander	158. Magic Sword
119. Lifeforce (US)	159. Nemo
120. Lifeforce (Japan)	160. Three Wonders

Game Tornado list (Horizontal)

3/5

161. The King of Dragons	201. Genpei ToumaDen
162. Knights of the Round	202. Wonder Momo
163. Quiz & Dragons	203. Riot City
164. Mega Man - The Power Battle	204. Wonder Boy III - Monster Lair
165. Rockman - The Power Battle	205. Hard Head
166. Muscle Bomber Duo	206. Plump Pop
167. Gang Wars	207. Kuri Kinton
168. Dragon Unit	208. Palamedes
169. Legend of Makai	209. Rastan
170. Mutation Nation	210. Rainbow Islands
171. Voltage Fighter - Gowcaizer	211. Jumping
172. Burning Fight	212. PuLiRuLa
173. Top Hunter	213. Nastar
174. Twinkle Star Sprites	214. Rastan Saga 2
175. Spinmaster	215. Space Invaders DX
176. Legend of Success Joe	216. Pipi & Bibis
177. Robo Army	217. Heavy Barrel
178. Crossed Swords	218. Meikyuu Hunter G
179. Tenchi wo Kurau	219. Blocken
180. Gururin	220. Hachoo!
181. 3 Count Bout	221. Tube-It
182. Money Puzzle Exchanger	222. Golden Axe
183. Eight Man	223. Sly Spy
184. Bank Panic	224. Flash Point
185. Mario Bros	225. Magix
186. Missile Command	226. Oh My God!
187. Rally X	227. Hebereke no Popoon
188. New Rally X	228. The Real Ghostbusters
189. Silver Land	229. Rollergames
190. Time Tunnel	230. Rod-Land
191. Tropical Angel	231. Chimera Beast
192. Wonder Boy	232. Peek-a-Boo!
193. Moon Patrol	233. Soldam
194. Sky Kid	234. Hatriss
195. Double Dragon	235. Yokai Douchuuki (1P)
196. Karnov	236. Pistol Daimyo no Bouken
197. Crude Buster	237. Legend of Hero Tonma
198. Two Crude	238. The New Zealand Story
199. Vigilante	239. Raimais
200. Ninja Spirit	240. Champion Wrestler

Game Tornado list (Horizontal)		4/5
241. Plotting	281. Souko Ban Deluxe	
242. Puzznic	282. Combat School	
243. Hit the Ice	283. Windjammers	
244. Yam! Yam!?	284. Street Hoop	
245. Caveman Ninja	285. Punk Shot	
246. The Ninja Kids	286. Super Sidekicks	
247. Final Blow	287. Football Champ	
248. Bionic Commando	288. Tecmo World Soccer '96	
249. Pigout	289. Goal! Goal! Goal!	
250. Dynamite Dux	290. Pleasure Goal	
251. Toryumon	291. Soccer Brawl	
252. Logic Pro	292. Euro Champ '92	
253. Karian Cross	293. Kick Off	
254. Logic Pro 2	294. Big Striker	
255. Battle Rangers	295. Bottom of the Ninth	
256. Act-Fancer Hyper Weapon	296. Shuuz	
257. Trio The Punch - Never Forget Me	297. Power Spikes	
258. Gondomania	298. Super Volleyball	
259. Makyou Senshi	299. League Bowling	
260. Garyo Retsuden	300. Baseball Stars Professional	
261. Bad Dudes vs. Dragoninja	301. Baseball Stars 2	
262. Hippodrome	302. Top Player's Golf	
263. Boulder Dash	303. Master of Syougi	
264. Super Burger Time	304. Mahjong Kvoretinden	
265. Ninja Gaiden	305. Minnasanno Okagesamadesu	
266. Tecmo Knight	306. Shanghai III	
267. Main Event, The	307. Jyanshin Densetsu	
268. Crime Fighters	308. Bakatonosama Mahjong Manyuki	
269. Block Hole	309. 2020 Super Baseball	
270. Surprise Attack	310. Super Dodge Ball	
271. The Combatribes	311. Stakes Winner	
272. Super Mario Bros.	312. Football Frenzy	
273. The Final Round	313. Power Spikes II	
274. Klax	314. '88 Games	
275. Off the Wall	315. Pocket Gal	
276. Sparkz	316. Great 1000 Miles Rally	
277. Psycho Soldier	317. Thrash Rally	
278. Pipe Dream	318. Hot Chase	
279. The Irritating Maze	319. Bad Lands	
280. Tank Force	320. Mad Motor	

Game Tornado list (Horizontal)		5/5
321. Ironman Stewart's Super OffRoad	337. Puzzle De Pon R	
322. Out Run	338. Battle Flip Shot	
323. Over Top	339. Neo Mr. Do!	
324. Neo Drift Out	340. Captain Tomaday	
325. F-1 Dream	341. Panic Bomber	
326. Nightmare in the Dark	342. Pnickies	
327. Neo Bomberman	343. Tetris(Japan)	
328. Magical Drop II	344. Tetris	
329. Magical Drop III	345. Tetris (set 1)	
330. Pang! 3	346. Snow Bros	
331. Super Pang	347. Snow Bros. 2	
332. Puzzle Bobble	348. Tumble Pop	
333. Puzzle Bobble 2	349. Don Doko Don	
334. Joy Joy Kid	350. Bobble Bobble	
335. Pop 'n Bounce	351. Bubble 2000	
336. Puzzle De Pon	352. Ice Climber	

Special note

1. This price is just for the computer hardware equipment.
2. Customers get the software by their own (including the purchase from the software provider or download free software from related web).
3. The way to get the software:
 - (1) Purchase the software from the software provider.
 - (2) Download the software from the related web.
4. Users assume all the legal consequences due to wrong download and use the software, it is unrelated with the equipment manufacturers and distributors.