ADVANCED PTZ/DVR KEYBOARD CONTROLLER

INSTRUCTION MANUAL

English Version 1.0

ACCKBD200

DIGIMERGE | Right For Business™

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended
To alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to
The presence of important operating and maintenance (servicing) instruction in the literature accompanying the product

FCC COMPLIANCE STATEMENT

FCC INFORMATION: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

CE COMPLIANCE STATEMENT

WARNING

THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

CONTENTS

General Descriptions

The ACCKBD-200 is a pan/tilt controller and it allows operators to perform the following functions :

• Controls camera functions such as pan, tilt, zoom, and focus.

• Sets and calls camera preset positions

• Activates pre-programmed group presets, tour and group sequences.

The LCD is used to display current status as well as to provide a menu system for setting operational parameters.

Controller is designed for desktop operation; interface connectors are located in the Junctions box outer of the unit.

Features

• Recalls up to 255 cameras from one keyboard.

• Multiple protocol supported in each channel (Pelco D/P, Dongyang DRX-502, Samsung Techwin

  SPD-2500, Samsung Electronics SCC-643)

• Preset position control.

• Variable manual control speed from 1°/sec to 90°/sec

• Maximum speeds are proportional to zoom ratio.

• Recalls programmed guard tours from each dome camera.

• Recalls Auto-Swing from selected dome camera.

• Built-in Graphic LCD monitor with blue screen.

• Programmable user preferences. (preset, tour, pattern, group, etc.)

• User password support.

• Easy upload programmed data via serial communication port of computer.

• Slave Keyboard support.

Installation

UNPACKING
Unpack the equipment and make sure all listed items are included in the box.

Product Carton 1
Keyboard controller ……………………………………………..……… 1
Junction box ……………………………………………………..……… 2
3m 6p cable RJ-11……………………………………………..……… 2
Instruction manual ……………………………………………..…….. 1
Product Carton 2
12V DC Power Adaptor …………………………………………………. 1

1. CONNECTIONS

There are two connectors on the controller. These connectors are RJ connector for Master and

Slave control.

1.1 Open the junction box cover and connect the 12VDC power to the junction box number 3 and 6.

1.2 Connect 6-pin multi-wired cable between junction-box and keyboard.

1.3 Connect PTZ communication wires (RS-485, 2-wires) to the junction box number of 1 and 2.

1.4 Turn on the power , then you will get into the starting mode.
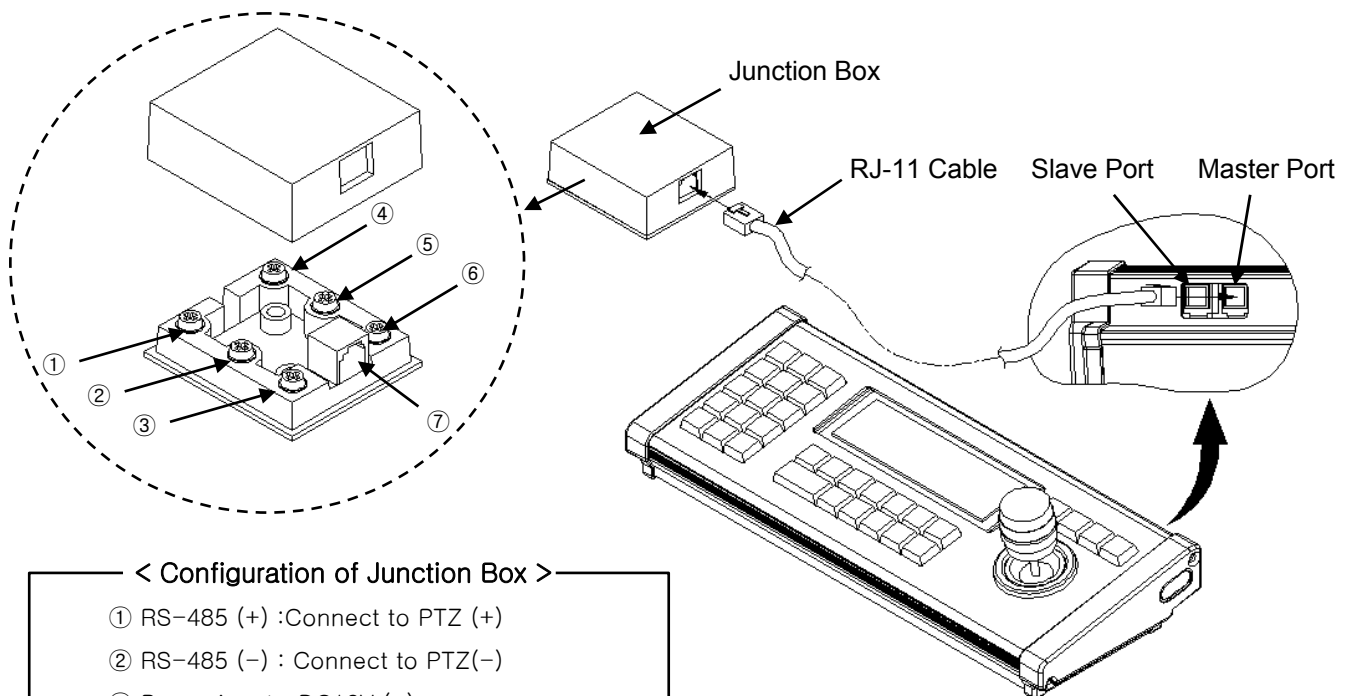


< Configuration of Junction Box >

① RS-485 (+) :Connect to PTZ (+)

② RS-485 (−) : Connect to PTZ(−)

③ Power input : DC12V (−)

④ Not used

⑤ Not used

⑥ Power input : DC12V (+)

⑦ RJ-11 Modular Jack : Connect to Controller

Parts name & functions
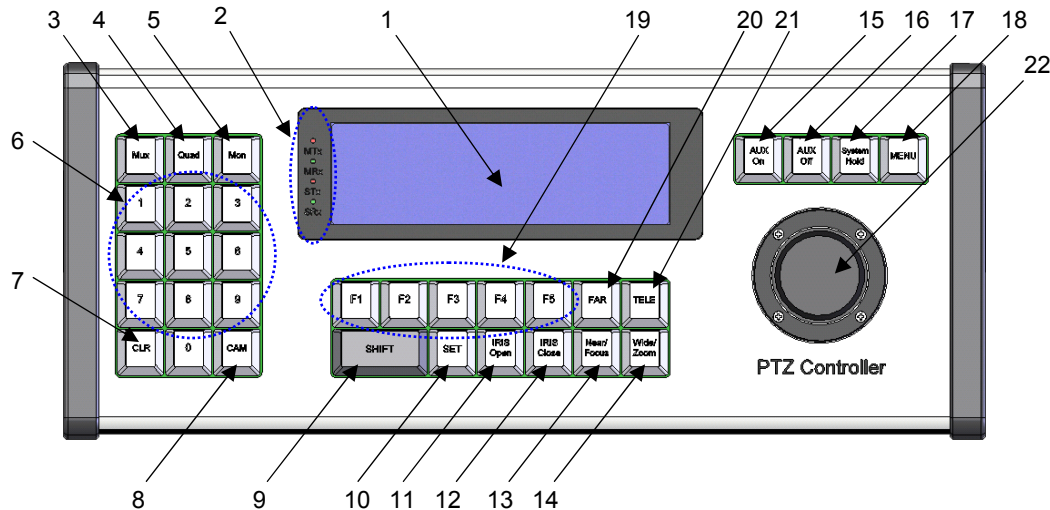
1. LCD Display: Displays numeric input, system status, function status, general status, etc.
2. Shows the communication status (Master / Slave)
3. Mon : Select output channel of Matrix Switcher
4. Quad : Select channel of Quad
5. Mux : Select channel of Mux
6. 0~9 :Numeric keypad :
7. CLR : Cancel key .
8. CAM :Select address of Camera, Mux, Quad and Matrix Switcher.
9. SHIFT : Key for special function (Customize).
10. SET : Connected equipment setting and system information setting.
11.12. IRIS Open ,12. IRIS Close :Camera Iris control.
13. 20.Near / Far Focus: Camera focus control.
14.21. Wide / Tele Zoom : Camera zoom control.
15. AUX On : AUX ON of Receiver unit.
16. AUX Off : AUX Off of Receiver unit.
17. System Hold : Used for system hold
18. Menu : Used for Camera (Pan/Tilt) Menu adjustment.
19. F1 ~ F5 : Function Keys   (Preset, Group, Tour, Pattern, Scan).
22. **Telemetry Joystick – It** allows precise control of Pan/Tilt/Zoom & Moving to menu
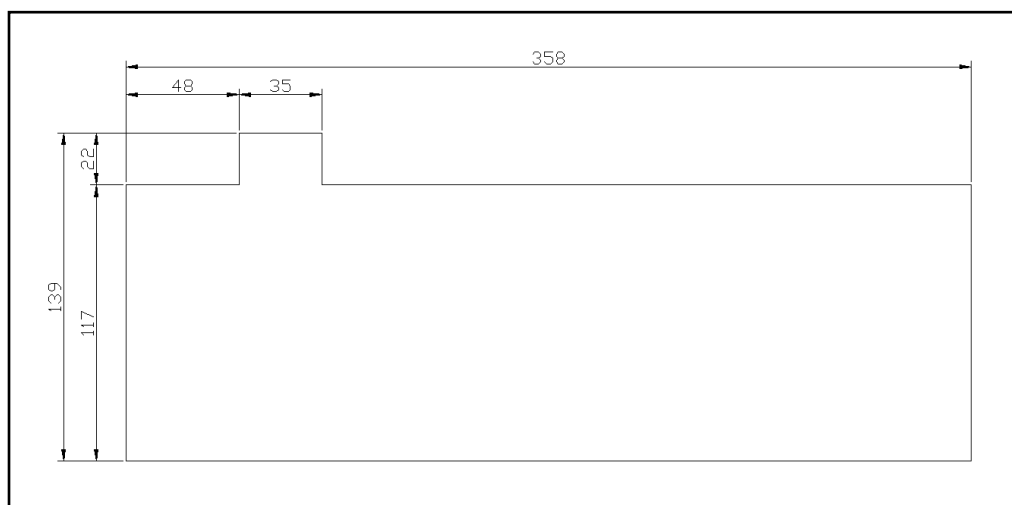
Parts name & functions
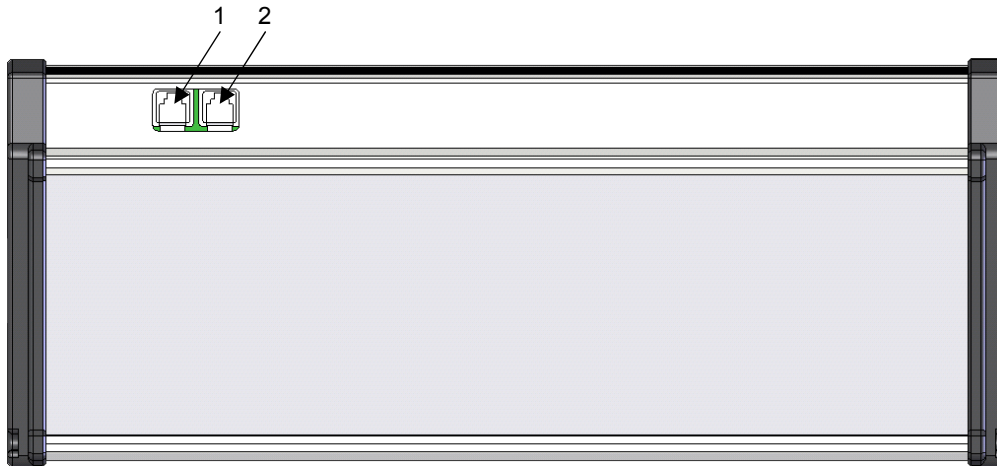
1. Slave Port   : Connect to Slave Communication Port.
2. Master Port : Connect to Master Communication Port

Drawing of Console Desk
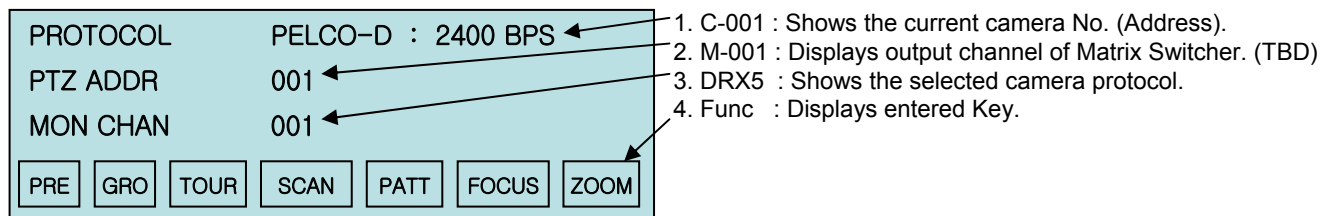
The ACCKBD200 is designed to use on the console desk.

When you install the keyboard on the console desk , please make holes as below drawing.

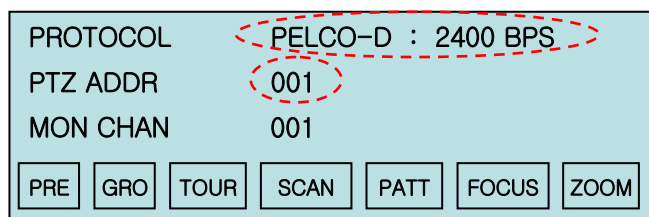Unit : mm

Display LCD window

(1) Initial display

```
PROTOCOL          PELCO-D  :  2400 BPS
PTZ ADDR          001
MON CHAN          001
[PRE] [GRO] [TOUR] [SCAN] [PATT] [FOCUS] [ZOOM]
```

1. C-001 : Shows the current camera No. (Address).
2. M-001 : Displays output channel of Matrix Switcher. (TBD)
3. DRX5 : Shows the selected camera protocol.
4. Func : Displays entered Key.

< Fig 1.1 >

Accessing to the camera menu :
This function is only for the speed dome camera

Select and control the camera

**1) How to select Address Number 1 camera
with Pelco-D protocol?**

```
  1              CAM
```

Camera Address   Press CAM button   Move to next item
by using joystick

```
PROTOCOL          PELCO-D  :  2400 BPS
PTZ ADDR          001
MON CHAN          001
[PRE] [GRO] [TOUR] [SCAN] [PATT] [FOCUS] [ZOOM]
```
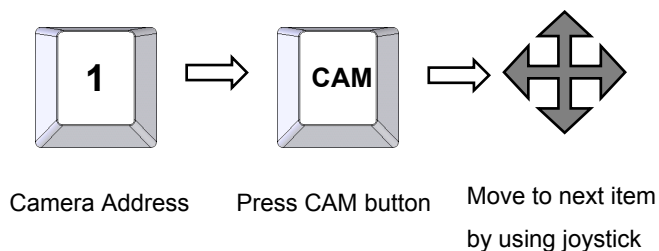
**2) How to select Address Number 2 camera with
DRX-502 protocol?**

```
  2              CAM
```

Camera Address   Press CAM button   Move to next item
by using joystick

```
PROTOCOL          DRX502A  :  9600 BPS
PTZ ADDR          002
MON CHAN          001
[PRE] [GRO] [TOUR] [SWING] [AUTO] [FOCUS] [ZOOM]
```
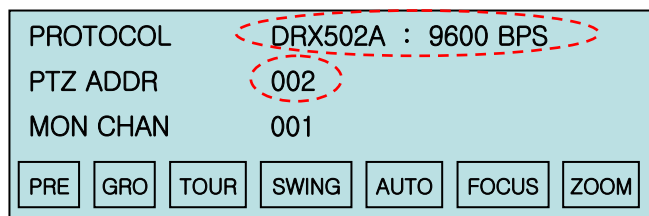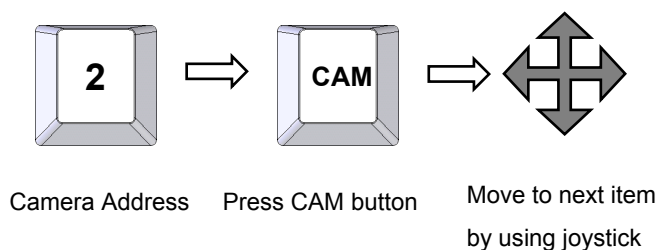
• Control and Setting of PTZ Camera Functions

1. Setting to the camera functions

① Camera Setting Menu

1 ⟹ **MENU**   **<Pressing keypad "1" and holding the "MENU" key for approximately 2 seconds>**

Camera Address   Press MENU button
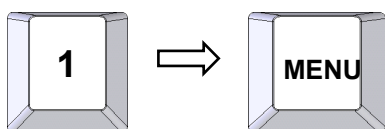
Each menu page is provided with a highlighted cursor which can be moved around the page using the Up, Down Left & Right cursor keys with Joystick.

** Note: Dome camera menu is different according to camera manufacturers.
Please be noted dome camera instruction manual in detail menu explanation.
** In Pelco protocol, press "95" and "preset" to get into the Dome menu

2.Accessing to the camera functions

① Preset
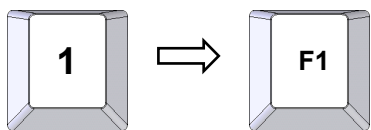
1 ⟹ **F1**   Press the preset number and PRE key(F1) on the keyboard. The Monitor will show you the function name and you are operating now.

Preset number   PRE KEY
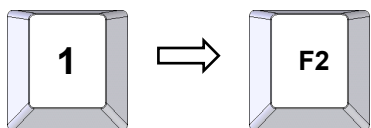
① Group

1 ⟹ **F2**   Press the preset number and GRO key(F2) on the keyboard. The Monitor will show you the function name and you are operating now.

Group number   GRO KEY

※ To using Preset, Group, Tour, Scan, Auto pan, Focus, Zoom functions of keyboard, user should store

these functions on the camera Menu in advance.

These functions are different according to manufacturer. ACCKBD200 series support Pelco D/P, Dongyang

DRX-502, Samsung Techwin SPD-2500 and Samsung Electronics SCC-643 protocols.

• System Controller (Keyboard) Functions setting

1. System functions setting

PTZ Camera (Rx) and Protocol setting.

①
| **1** | ⇒ | **SET** |

<Pressing keypad "1" and holding the "SET" key for approximately 2 seconds>

② You will be prompted for a password if one has previously been set (factory default is "0000".)

③ Set the information as LCD show you by using joystick.

④ PTZ Configuration is as below.

```
                    ┌─────────────┐
                    │   System    │
                    │   Setting   │
                    └──────┬──────┘
                           │
                 ┌─────────┴─────────┐
                 │  '1' + SET(−)     │
                 │   (2 seconds)     │
                 └─────────┬─────────┘
                           │
                 ┌─────────┴─────────┐
                 │    PASSWORD       │
                 └─────────┬─────────┘
```
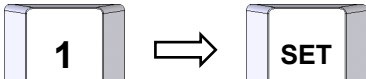
Equipment number	Equipment number	PROTOCOL	COMM SPEED	JOYSTICK	EXIT
	PTZ	PELCO-D	2400BPS	PROP.	Save & Exit
	PTZ-K1	PELCO-P	4800BPS	ON-OFF	Exit only
	CAMERA	DRX-502	9600BPS		
	DVR	PELCO-A	19200BPS		
	MATRIX	SPD-2500	38400BPS		
	QUAD	SCC-643			
	ETC.				

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ACCKBD2000

```
PROTOCOL      PELCO-D : 2400 BPS

PTZ ADDR      001

MON CHAN      001


PRE GRO TOUR SCAN PATT FOCUS ZOOM
```

```
PASSWORD?
```

```
1.    NO.                 001
2.    TYPE                PTZ
3.    PROTOCOL            DRX-502
4.    COMM SPEED          2400 BPS
```

```
5.    JOYSTICK            PROP
6.    EXIT
```

Accessing the system setup menu

Pressing keypad 1 and then holding the SET key for approximately 2 seconds.
It provides access to the system setup menu system.

Note: You will be prompted for a password if one has previously been set
(factory default is "0000")

NO. : Select camera address to be changed.

TYPE : Select camera type.

PROTOCOL : Protocol select.

COMM SPEED : Select communication speed
** DRX-502 : 9600 bps
** Pelco D : 2400 bps

JOYSITCK: Select the way of Joystick control.

　　　　PROP : Proportional speed control.

　　　　ON-OFF : Fixed speed control.

EXIT

2.Hidden command

This hidden menu performs to operator to change PASSWORD and others.
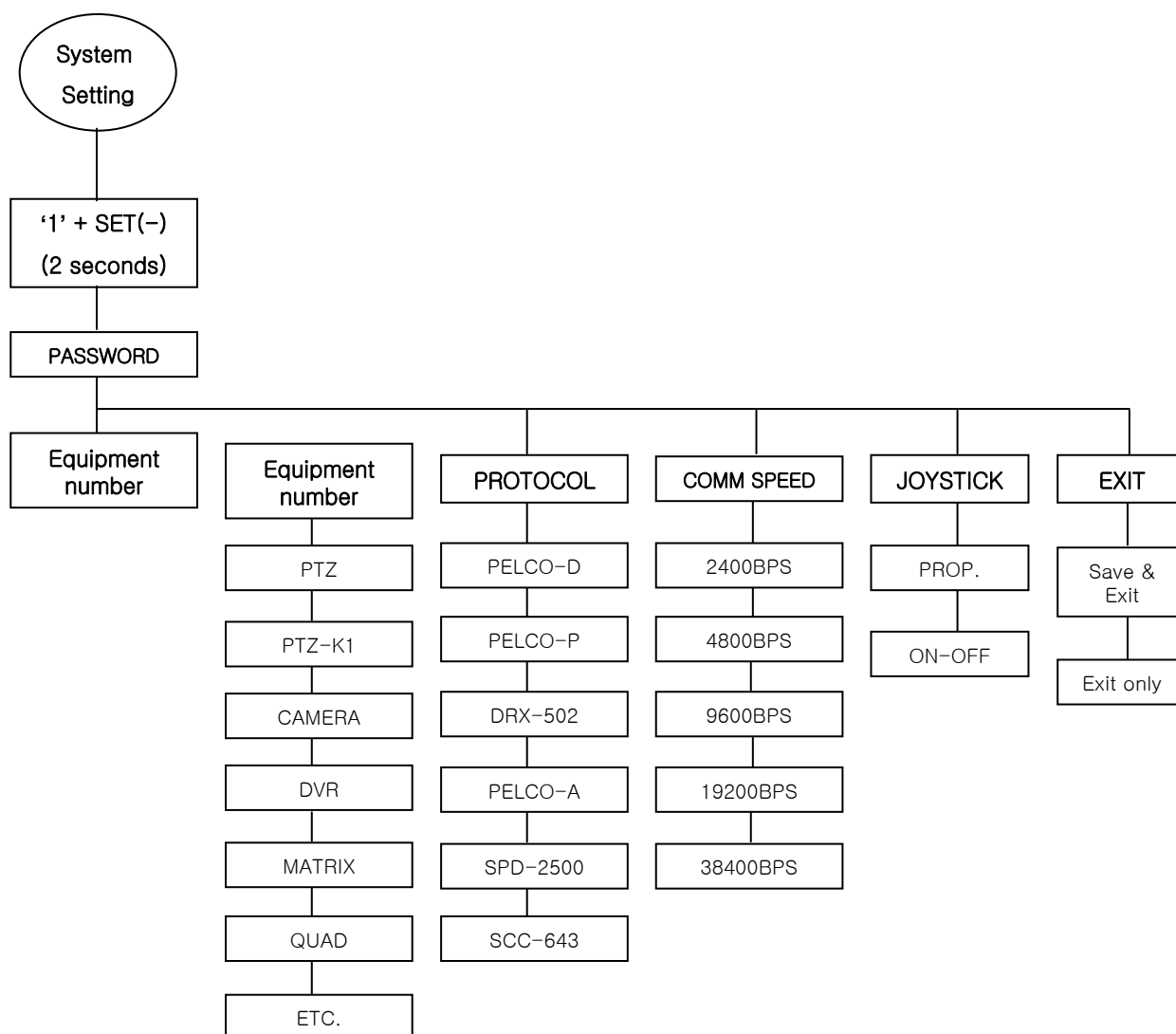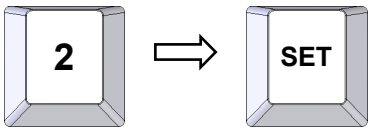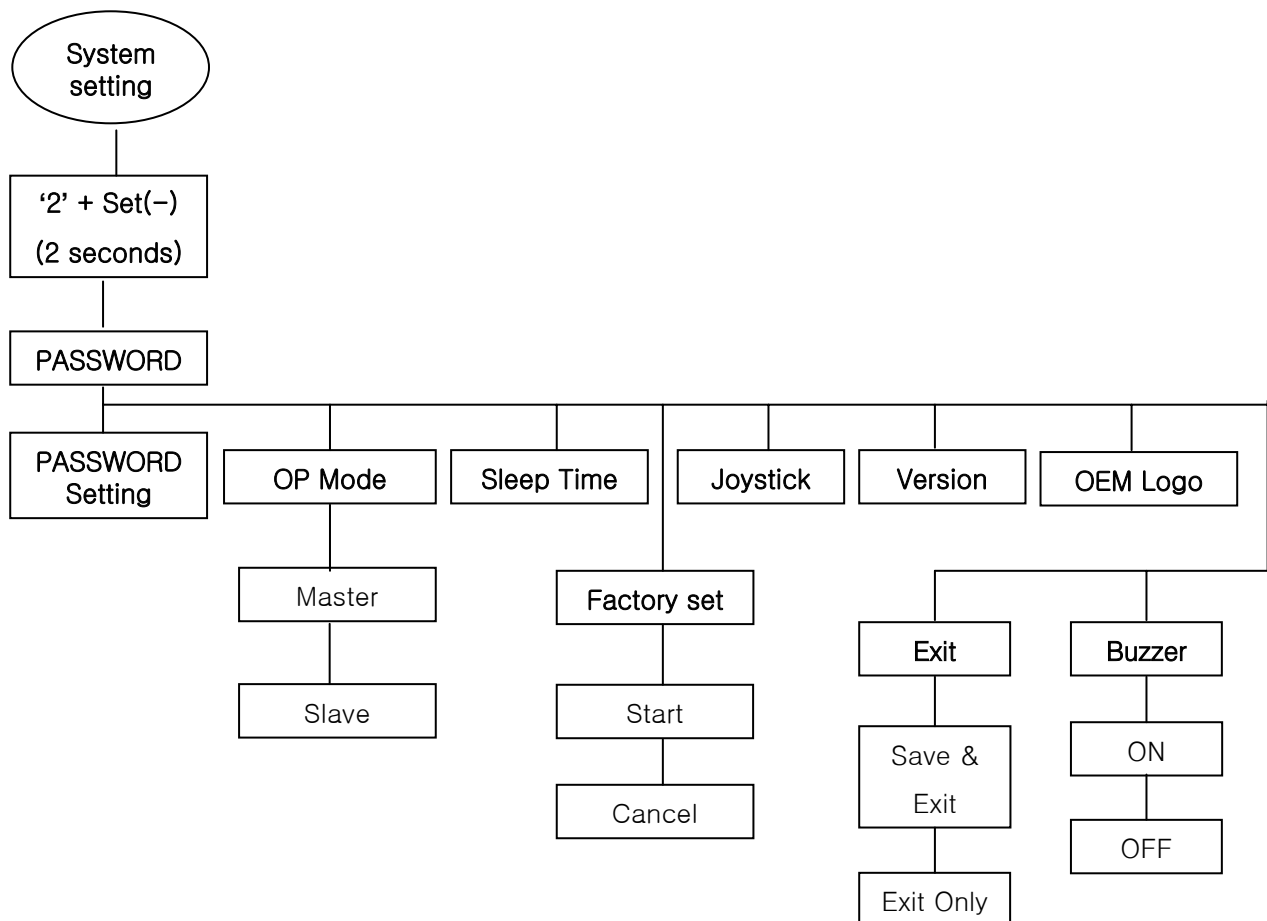
① **2** ⟹ **SET**   **<Pressing keypad "2" and holding the "SET" key for approximately 2 seconds>**

② You will be prompted for a password if one has previously been set (factory default is "0000".)

③ Set the information as LCD show you by using joystick.

④ PTZ Configuration is as below.

```
        ┌─────────────┐
        │   System    │
        │   setting   │
        └──────┬──────┘
        ┌──────┴──────┐
        │ '2' + Set(−) │
        │ (2 seconds) │
        └──────┬──────┘
        ┌──────┴──────┐
        │  PASSWORD   │
        └──────┬──────┘
```

| PASSWORD Setting | OP Mode | Sleep Time | Joystick | Version | OEM Logo |

```
            │           │                        │           │
         ┌──┴──┐   ┌─────┴─────┐              ┌───┴──┐    ┌───┴────┐
         │Master│  │Factory set│              │ Exit │    │ Buzzer │
         └──┬──┘   └─────┬─────┘              └───┬──┘    └───┬────┘
         ┌──┴──┐   ┌─────┴─────┐          ┌───────┴──┐    ┌───┴──┐
         │Slave│   │   Start   │          │ Save &   │    │  ON  │
         └─────┘   └─────┬─────┘          │  Exit    │    └───┬──┘
                   ┌─────┴─────┐          └───────┬──┐    ┌───┴──┐
                   │  Cancel   │          │Exit Only │    │ OFF  │
                   └───────────┘          └──────────┘    └──────┘
```

Specifications

Model	ACCKBD200
Keyboard Communication	Pan/Tilt interface: RS-485
	DVR interface: RS-485
	Pan/Tilt operating distance: 4000 ft (1029m) on 24AWG wire
	Protocol: Multiple (Pelco D/P, Dongyang DRX-502, Samsung Techwin SPD-2500, Samsung Electronics SCC-643), Baud rate selectable
Connector Type Data	RJ-11 6-pin modular
Keyboard Keypad	PC Keyboard button
	Numeric keypad and camera function keys.
Joystick	Three-axis, vector solving, with twisting, return-to-center head
Input Voltage	12V DC±2V
Power Consumption	Max.150mA
LCD Display	Graphic display 240 x 64dots. Display 4-linex30-character alphanumeric LCD display with blue backlight.
Operating Temperature	0℃ to 45℃
Humidity	10% -70% non-condensing
Dimensions & Weight	376(W) x 112(H) x 145(D), 1.3Kg

Dimensions