USER MANUAL

MULTI-FUNCTION REMOTE-CONTROLLER

WARNINGS, CAUTIONS & COPYRIGHT

WARINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION

	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.		

Explanation of Graphical Symbols

⚡	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insinuated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
❗	The exclamation point within an equilateral rhombus is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

USERS OF THE SYSTEM ARE RESPONSIBLE FOR CHECKING AND COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND STATUTES COIPCERNING THE MONITORING AND RECORDING OF VIDEO AND AUDIO SIGNALS.   ULTRAK SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS SYSTEM IN VIOLATION OF CURRENT LAWS AND STATUTES.

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THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

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1 INTRODUCTION

This MULTI-FUNCTION REMOTE-CONTROLLER with following features:

- Control Dome Camera \ DVR \ Dome Camera after DVR in the same time.
- Support Dome Camera ID up to 128 & DVR ID up to 32.
- Support baud rate 2400 / 4800 / 9600.
- Dome Camera support following protocol / model:
  PELCO-D
  PELCO-P

  DYNACOLOR D7
  PIH-7X(LILIN)
  DMP-15H1
- DVR
  08CH
  16CH
  04CH
- REMOTE-CONTROLLER protocol upgradeable by RS-232 from PC.
- Through-able controls the Dome Camera after DVR.

2 SPECIFICATION

In/Output	RS-485
Power Consumption	DC12V, 1A , 2 Watts
Dimensions	320W*61H*166D mm (Not Include Joystick)
Weight	2D 1.4Kg / 3D 1.6Kg
Operation Temp.	5 to 45
Storage Humidity	5 to 95% Non-condensation

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

3 HARDWARE OVERVIEW & CONNECTING

3.1 Front plane keyboard assignment

DVR Control 1   LCD Module   Joystick

Dome Camera Control   DVR Control 2 & Number Key
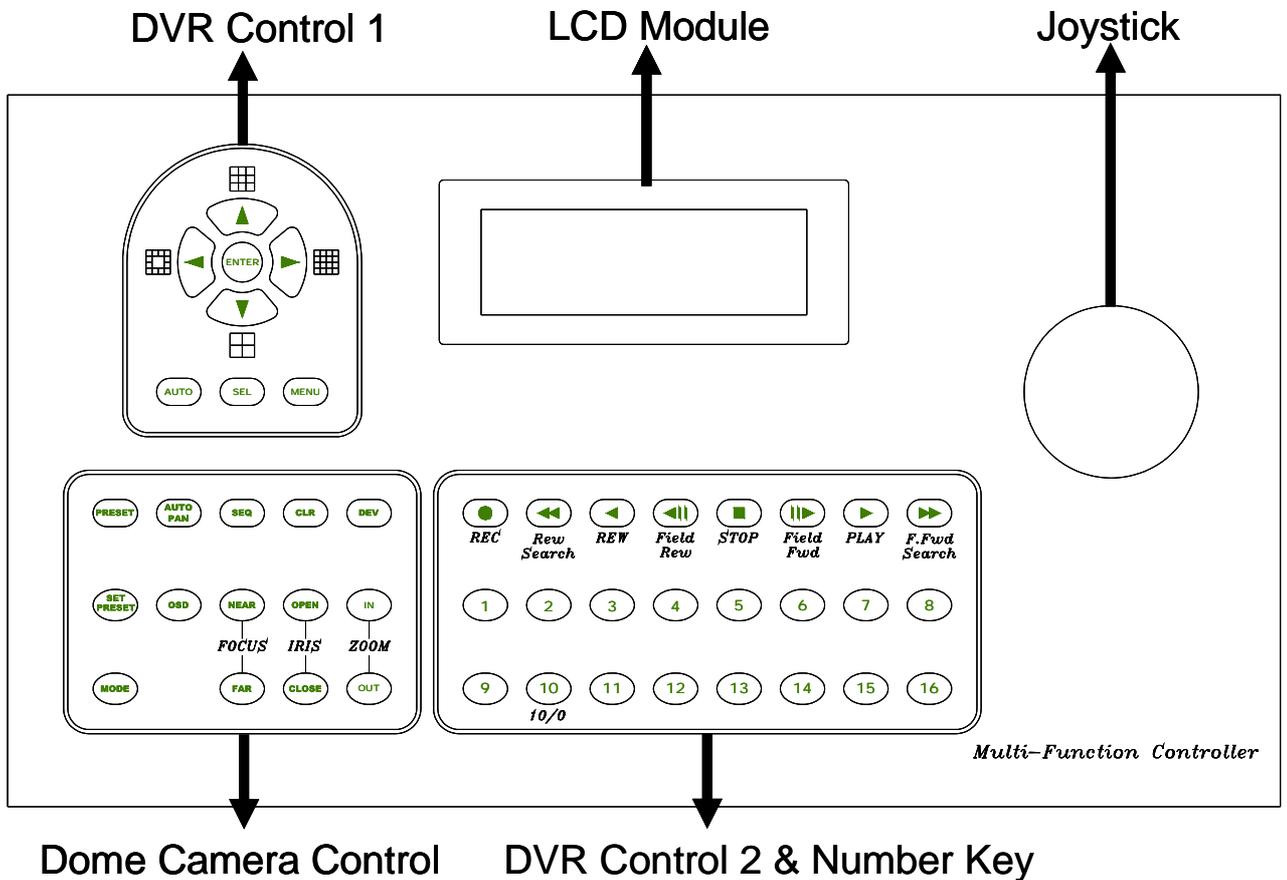
A. DVR Control 1

▲	Setup mode: Change item or value.
⊞	DVR mode: Change to 9 camera formats.
◄	Setup mode: Change item or value.
⊞	DVR mode: Change to 13 camera formats.
►	Setup mode: Change item or value.
⊞	DVR mode: Change to 16 camera formats.
▼	Setup mode: Change item or value.
⊞	DVR mode: Change to 4 camera formats.
AUTO	Auto dwell mode in DVR mode.
SEL	Change DVR channel.
MENU	Into DVR menu.
ENTER	Enter menu or confirm setting.

B. Dome Camera Control

PRESET	Go to preset point.
SET PRESET	Setup preset point.
MODE	Switch between DVR and Dome Camera mode. DVR mode: Single channel full screen PTZ control.
AUTO PAN	Dome camera in auto tour mode. (Depend on camera)
OSD	Dome camera On Screen Display. (Depend on camera)
SEQ	Dome camera auto switch between preset points. (Depend on camera)
CLR	Clear or Exit.
DEV	Devices ID address setting.
FOCUS	NEAR	Manually adjusted the focus.
	FAR	Manually adjusted the focus.
IRIS	OPEN	Manually open the iris of the lens.
	CLOSE	Manually close the iris of the lens.
ZOOM	IN	Manually adjusted the zoom lens in.
	OUT	Manually adjusted the zoom lens out.

C. DVR Control 2 & Number Key

🔴	Recording
◀◀	Fast Rewind
◀	Rewind
◀❙❙	Field Rewind
■	Stop
❙❙▶	Field Forward
▶	Play
▶▶	Fast Forward
1-16	Channel & number key
10	Equal to number 0

D. LCD Module

Monochrome	Matrix 4 line 20 font display

E. Joystick

2D	Linear control 2D joystick, adjust camera direction & movement speed by pitch
3D	Support Z axis function for zoom in & out function.

3.2 Back plane I/O port pin assignment

To DVR/Dome Camera

Reserved

T+ T- R- R+   DC 12V/1A

ISP   RS-232   RS-485

Firmware Upgrade   Power Input
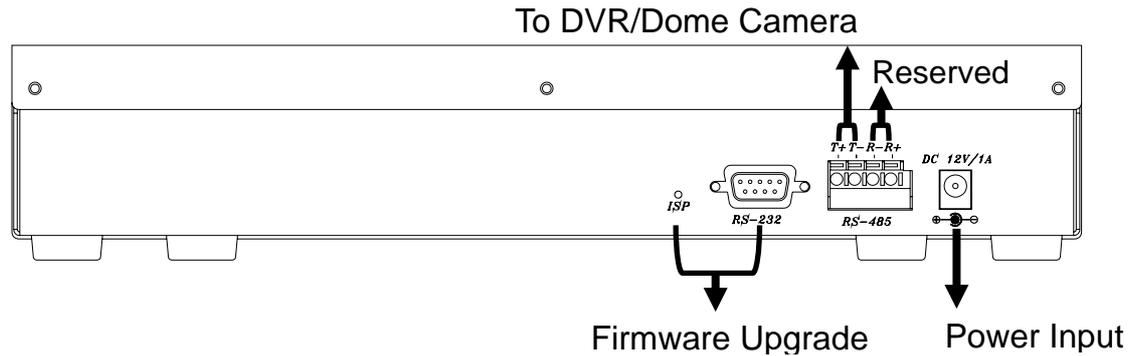
Back plane pin assignment		
Power Input		DC 12V 1A
RS-485	**T+**	Link to DVR or Dome Camera R+ or A.
	T-	Link to DVR or Dome Camera R- or B.
	R+	Reserved
	R-	Reserved
RS-232		Link to PC RS-232 Port.
ISP		In System Programmer Hold the ISP bottom and power on for update mode.

3.3 Connect concept

To Dome Camera
- **Each Camera ID number must be unique, ID number support up to 128.**
- **In series way to RS-485 data Transmitter + to Receiver+ / Transmitter - to Receiver-.**
- **Suggest all dome cameras in same baud rate.**

To DVR
- **Each DVR ID number must be unique, ID number support up to 32.**
- **Each DVR support up to 16CH camera**
- **Each camera ID must match with channel number.**
- **RS-485 to DVR must in parallel ways**
- **DVR to dome camera in series way.**
- **Suggest all dome cameras in same baud rate or 9600bps.**
- **Remove controller can be instead DVR to control dome camera, in same baud rate & correct ID setting, if DVR not support the protocol.**

3.4 RS-485 Connecting Diagram
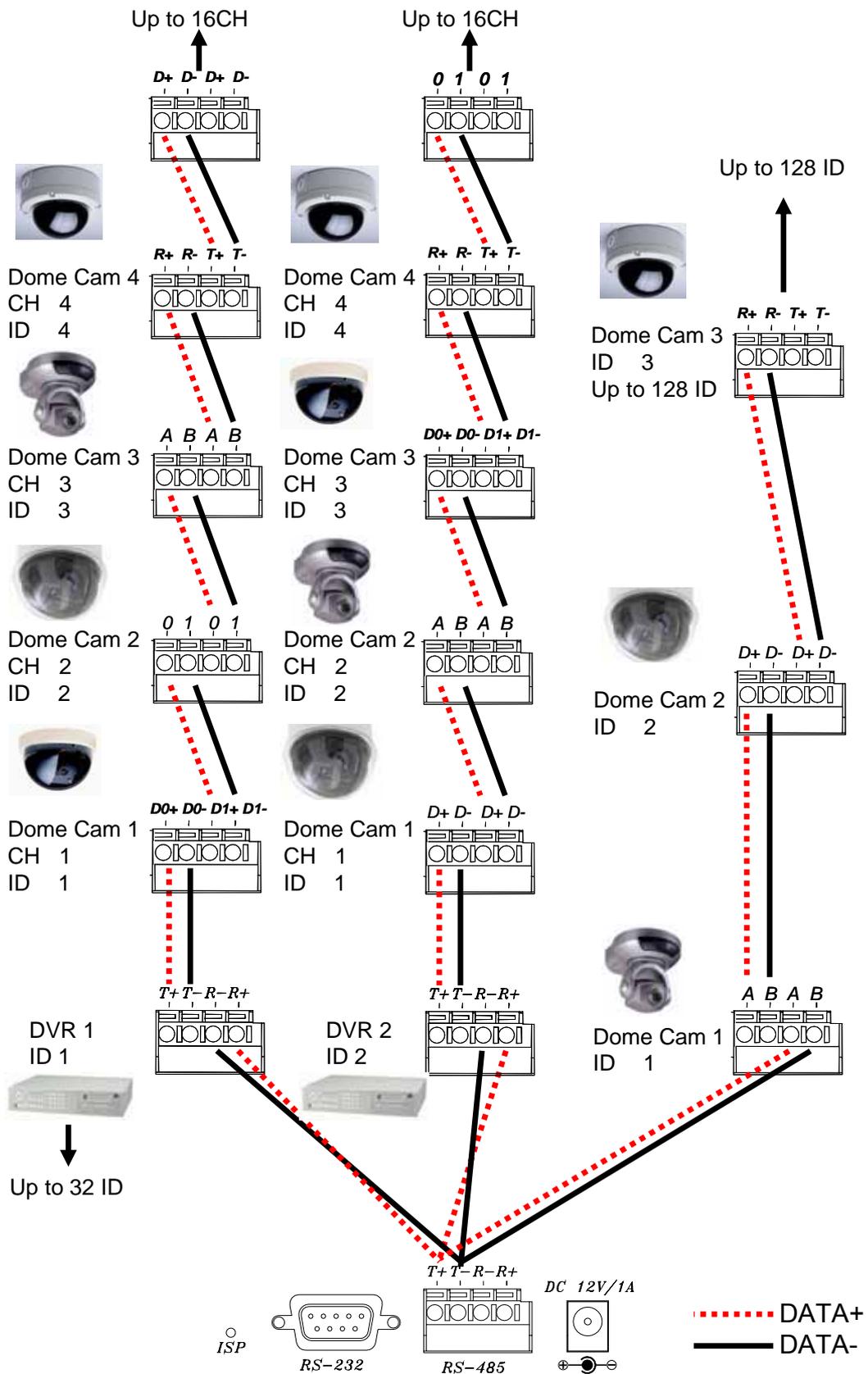
4 Dome Camera setup & operation

4.1 Setup Dome camera

4.1.1 Press MODE into MODE SETTING mode and MODE:XXXX would flash on the screen.

4.1.2 By ▲ or ▼ to change DOME/BAUD.

4.1.3 By ◄ or ► to adjust value.

4.1.4 Press ENTER to save setting.

4.2 Setup Dome camera ID

4.2.1 Press DEV (DEVICE).

4.2.2 Key in ID number.

4.2.3 Press ENTER to save setting.

4.3 Setup preset point / DWELL / SPEED

4.3.1 Press SET PRESET

4.3.2 Key in preset point number.

4.3.3 Press SET PRESET

4.3.4 By joystick moving the lens to the place went to set.

4.3.5 Press 2 into DWELL & SPEED setup by ▲ or ▼ to change item & ◄ or ► to adjust value.

4.3.6 Press SET PRESET or 1 to save setting

4.4 Move to preset point

4.4.1 Press PRESET key.

4.4.2 Enter Preset point number.

4.4.3 Press PRESET key.

4.5 Auto Pan Mode (By Dome Camera)

4.5.1 Press AUTO PAN Key.

4.5.2 Press 1 to start.

4.5.3 Or 2 to setting.

4.5.4 Or 3 exit AUTO PAN Mode.

4.6 Auto SEQ Mode (By Dome Camera)

4.6.1 Press SEQ Key.

4.6.2 Press 1 to start.

4.6.3 Or 2 to setting.

4.6.4 Or 3 exit SEQ Mode.

4.7 Change Dome Camera ID and control

4.7.1 Press DEV

4.7.2 Key in ID number.

4.7.3 Press DEV key to change ID.

5 DVR setup & operation

   5.1 **Setup DVR model & ID**

      5.1.1   Press `MODE` into MODE SETTING mode and <u>DVR:DVR CONTOLER</u> would flash on the screen.

      5.1.2   Press twice `DEV` (DEVICE) & <u>SET DVR NUM:00</u> show up.

      5.1.3   Key in ID number.

      5.1.4   Press `MODE` & by ◄ or ► to select DVR model & <u>DVR:XXXXXXXX</u> would flash on the screen..

      5.1.5   Press `DEV` (DEVICE) to save setting.

   5.2 **Setup DVR ID**

      5.2.1   Press `DEV` (DEVICE).

      5.2.2   Key in ID number.

      5.2.3   Press `DEV` or `ENTER` to save setting.

   5.3 **Setup Dome Camera after DVR**

      5.3.1   Press Channel into full screen mode.

      5.3.2   Press `MODE` & by ◄ or ► to select protocol.

      5.3.3   Press `DEV` to save setting.

   5.4 **Change DVR ID and control**

      5.4.1   Press `DEV`

      5.4.2   Key in ID number.

      5.4.3   Press `DEV` key to change ID.

   5.5 **Setup preset point / DWELL / SPEED**

      5.5.1   Press Channel into full screen mode.

      5.5.2   Press `SET PRESET`

      5.5.3   Key in preset point number.

      5.5.4   Press `SET PRESET`

      5.5.5   By joystick moving the lens to the place went to set.

      5.5.6   Press `2` into DWELL & SPEED setup by ▲ or ▼ to change item & ◄ or ► to adjust value.

      5.5.7   Press `SET PRESET` or `1` to save setting

   5.6 **Move to preset point**

      5.6.1   Press Channel into full screen mode.

      5.6.2   Press `PRESET` key.

      5.6.3   Enter Preset point number.

      5.6.4   Press `PRESET` key.

   5.7 **Auto Pan Mode (By Dome Camera)**

      5.7.1   Press Channel into full screen mode.

      5.7.2   Press `AUTO PAN` Key.

      5.7.3   Press `1` to start.

5.7.4   Or 2 to setting.

5.7.5   Or 3 exit AUTO PAN Mode.

5.8 Auto SEQ Mode (By Dome Camera)

5.8.1   Press Channel into full screen mode.

5.8.2   Press SEQ Key.

5.8.3   Press 1 to start.

5.8.4   Or 2 to setting.

5.8.5   Or 3 exit SEQ Mode.

6 Quick DVR-Dome Camera setting & ISP Update
6.1 ISP Firmware Update

6.1.1   Double click & press NEXT key to install ISP_V30A setup.exe and a WinHost V30A shortcut will appear on desktop.

6.1.2   Power off YCK-02D/03D & connect RS-232 cable.

6.1.3   Hold the ISP buttom & power on HTK-16TR.

6.1.4   The YCK-02D/03D interface as below:
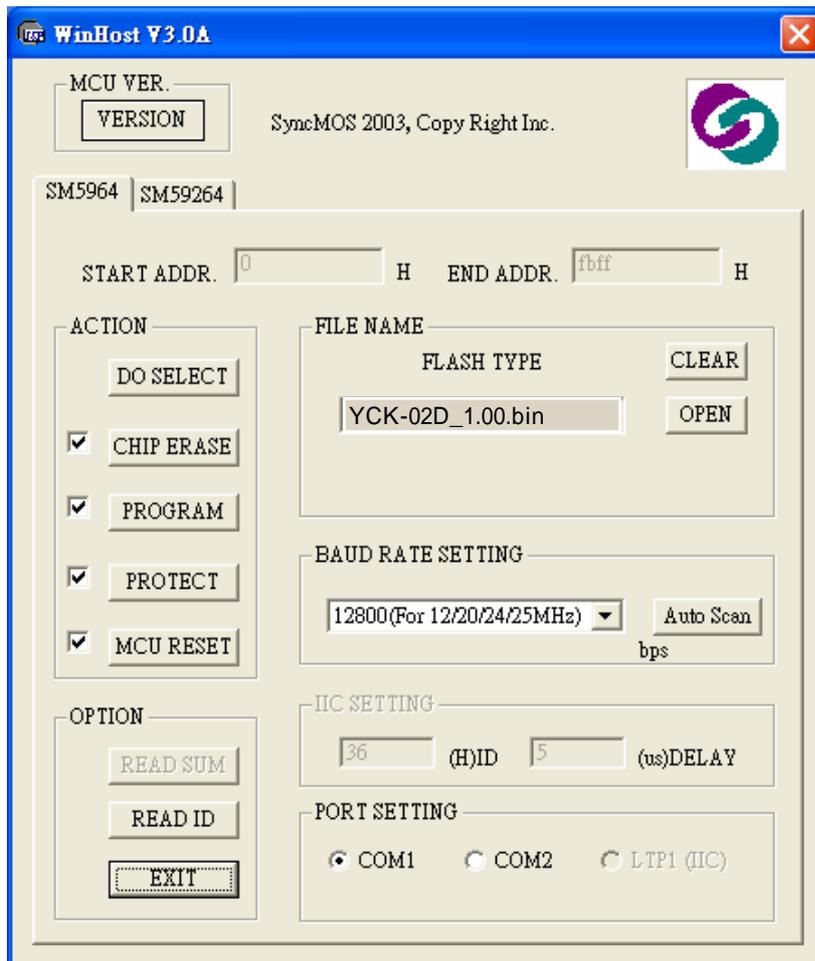
6.1.5 Update process

A. Press Auto Scan bottom to synchronize the baud rate with DVR.

B. Press OPEN to select firmware.

C. Check the CHIP ERASE / PROGRAM / PROTECT / MCU RESET box in ACTION area.

D. Press DO SELECT to start firmware update.

CAUTION: Please make sure your firmware file correct, and left system idle & closed all unnecessary programs before update.