PH-855 Video Doorphone system   The Installation Guide

Chapter 1 Introduction

The PH-855 series is an apartment entrance control system comprising Audio and Video.
Manufacture superior quality and reliable products always our top objective. However, a qualified
 technician will ensure the system is installed and maintained properly for lasting usage.
Some points for attention before installation:
1) Ensure all wiring are properly terminated correctly into connectors.
2) Recommend cable specifications: RG59 or RG11 for video signal, min.20AWG for control signal &
    min. AWG18 for monitor DC power wire.
3) Ensure system cables are separated from high voltage power cables or television cables(cable
    TV).

Chapter 2 Precautionary Measures before Installation

1) Take care of monitors carefully and avoid dropping and hard knocking against it. This is to ensure
    the picture tube and PCB are not cracked from shock.
2) System cables are separated from power cables or cable TV. This is to ensure there is no
    interference that may affect the performance. Distance between the 855C5 (C10)-855Ma should not
    exceed 100 meters. Important: Make sure a high quality voice, wire#2 and wire #3 should be
    twisted.
3) The PH-855C5 is weatherproof. The base box is also waterproof if it is to be installed near sea or
    very windy areas. To inspect there is no water left behind from rain or construction before finish
    wiring in camera.
4) Equipment can operate between -20 degree C and +50 degree C.

Chapter 3 Model Items

Items: PH-855C5 = 1 pc
         PH-855Ma / PH-855M3 = It depends upon user's request. The max. quantity 10 pcs.
2 kinds of pre-boxes for PH-855C5:
Flush Type: Dig a hole then inset the wall.dimensions:28.5x10x6 cm
Surface Type: Install the wall directly.dimensions:32.5x12.5x5 cm
1.Installation by 4 signal wires(≧1.0mm)+1 coaxial cable(RG59-75ohms)+2 AC power wires.
2.Turn the switch on the position 75-OFF in the back part of all monitors except the furthest one.
    Measure the resistance between shield and wire with a multimeter. The ohm value must be
    around 75 to 80 Ohms.
3.Monitor Programming: Press the key(S1) in the back part of monitor until you hear a beep. You
    have 30 seconds to press the key(on SD-855C5) call the apartment monitor. The apartment monitor
    will ring and receive code.

4.Trouble Shooting
PH-855Ma monitor
Pin-1: VIDEO DC 0V
Pin-2: GND
Pin-3: OFF-0V, ON-1-3 V (DC)
Pin-4: OFF-0V, ON-6.5 V (DC)
Pin-5: OFF-0V, Press call button 1-3V (DC)
Pin-6: OFF-0V, Pick up the handset 1.5V (DC), Press call button 6.5V (DC)
PS. Don't connect pin-6 if no need extension in the same apartment.

PH-855C5 camera
Pin-1: VIDEO output
Pin-2: GND for video and signal control
Pin-3: OFF-0V, ON-1-3 V (DC)
Pin-4: OFF-0V, ON-6.5 V (DC)
Pin-5: OFF-0V, Press any button: 9V-11V (DC)
Pin-6: DC +15V input
Pin-7: GND for power
Pin-9 & Pin 10: for door release

PH-855C10 camera
Pin-1: VIDEO output
Pin-2: GND for video and signal control
Pin-3: OFF-0V, ON-1-3 V (DC)
Pin-4: OFF-0V, ON-6.5 V (DC)
Pin-5: DC+15V Input
Pin-6: GND for power
Pin-7 & Pin-8: for door release

PH-855C3 Door Bell with CCD
Pin-1: OFF-0V, ON 1.5V (DC)
Pin-2: GND
Pin-3: DC +12V-18V Input

Condition 1: voice normal but no picture
Reason: video cable short
Trouble shooting: inspect video cables & video wire connectors

Condition 2: picture normal but no voice
Reason: wire#3 faulty or short
Trouble shooting : inspect wire#3

Condition 3: no calling sound or not enough loud
Reason: volume knob turns to wrong position
Trouble shooting: turn the volume to the clockwise direction

Condition 4: camera can't call monitor
Reason: a) wire#3 faulty or short
        b) no terminal resistor
        c) improperly install terminal resistor
        d) set a wrong code
trouble shooting: a) inspect wires
        b) install terminal resistor
        c) adjust resistor
        d) re-set the code

Condition 5: no monitoring function in monitor
Reason: a) no power on
        b) wire #4 short
Trouble shooting: a) inspect power source
                b) inspect wire #4

Condition 6: monitoring function in monitor is normal, no voice, no picture & LED Lights on
Reason: a) no power in camera
        b) wire #4 short
Trouble shooting: a) inspect the power in camera
                b) inspect wire #4

Condition 7: door open is fail
Reason: a) door lock is faulty
        b) a wrong wire connection in 3-pin cable which is for connecting door lock
Trouble shooting: a) inspect door lock
                b) inspect wire arrangement

Condition 8: monitoring is fail
Reason: keep 6.5V in wire#2 & wire#4
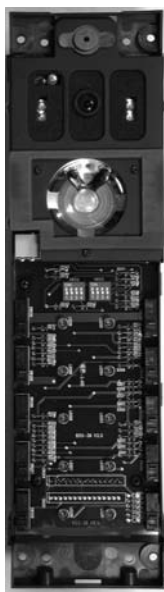Trouble shooting: inspect the connecting wire of PH-855M and find voltage source

If there is any question, please contact our agent in your city or us directly.

PH-855C3 Door Bell with CCD

PH-855C5 The Keyboard Camera

Front-Cover View   Front View   Rear View

Screws   Screws

5 ~ 10 Residents are Available

Specifications:
Power Source: DC 15V via PH-P7
Resolution: 380 TV lines
IRIS system: Automatic
Camera: 1/3" CCD Type
Dimension: 32cm X 12cm X 6cm.
Packing:
G. W.: 1.5 kg.
          0.13 cubic feet.

PH-855C10 The Camera

Front View   Rear View

1 ~ 4 Residents are Available

KeyPad

Specifications:
Power In: by PH-P7
1 ~ 4 Residents are Available
Resolution: Colour- 300 TV lines,
          B/W- 360 TV Lines
Lens: Auto; pin hole lens
CCD: 1/3" Colour or B/W CCD
Min. illumination: Colour-0.2lux w/4 pcs LEDs
          B/W-0.2lux (w/6pcs Infrared IR)
Dimensions: 183mm x 100mm x 25mm
Packing:0.10 cuft
Weight: 1.0 kg
No need Prebox
Stainless Case + Back light Keypad

PH-855Ma The Monitor

Front View   Rear View

Unlock
Intercom
Guard
On/Off(MONITOR)

DC IN   S1 SW

Specifications:
Power Source: AC In
CRT: 4" b/w flat tube
Resolution: 500 TV lines
Calling Tone: Ding-Dong
Display Time: pick up the handset 3 mins.
          hang up the handset 30 sec.
Power Consumption: Standby--0.2W;
          Operating--Max.8W
Wiring: 2-wire non-polarity
Dimension: 250mm X 210mm X 45mm.
Packing:0.3 cuft
Weight: 1.5 kg
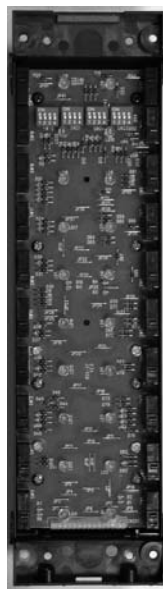
Setting PH-855Ma (PH-855M3) resident number procedures:
1. Press S1 switch on the rear side of Monitor until there is " bi bi " sound,
then press one button of PH-855C5 (or C10 or K2). The Monitor will be power on and
 there is "Ding-Dong, Ding-Dong" sound twice to confirm the setting is
 successfully made.

PH-855K2 10 - 20 Button Keyboard

Front-Cover View   Front View   Rear View

Specifications:
Power Source: Supply from 855C5
Support from 10 to 20 Apartments
LED illumination display
Dimensions: 32cm X 12cm X 6cm.
Packing:
G. W.: 1.5 kg.
         0.13 cuft.

10 ~ 20 Residents are Available

PH-P6 Power Supply

PH-P7 Power Supply

Specifications:
Power Source: AC in
Power Out: DC16.5 - 18V (2.5A)
            DC12V (300mA)
Dimensions: 160cm X 80cm X 120mm
Packing:
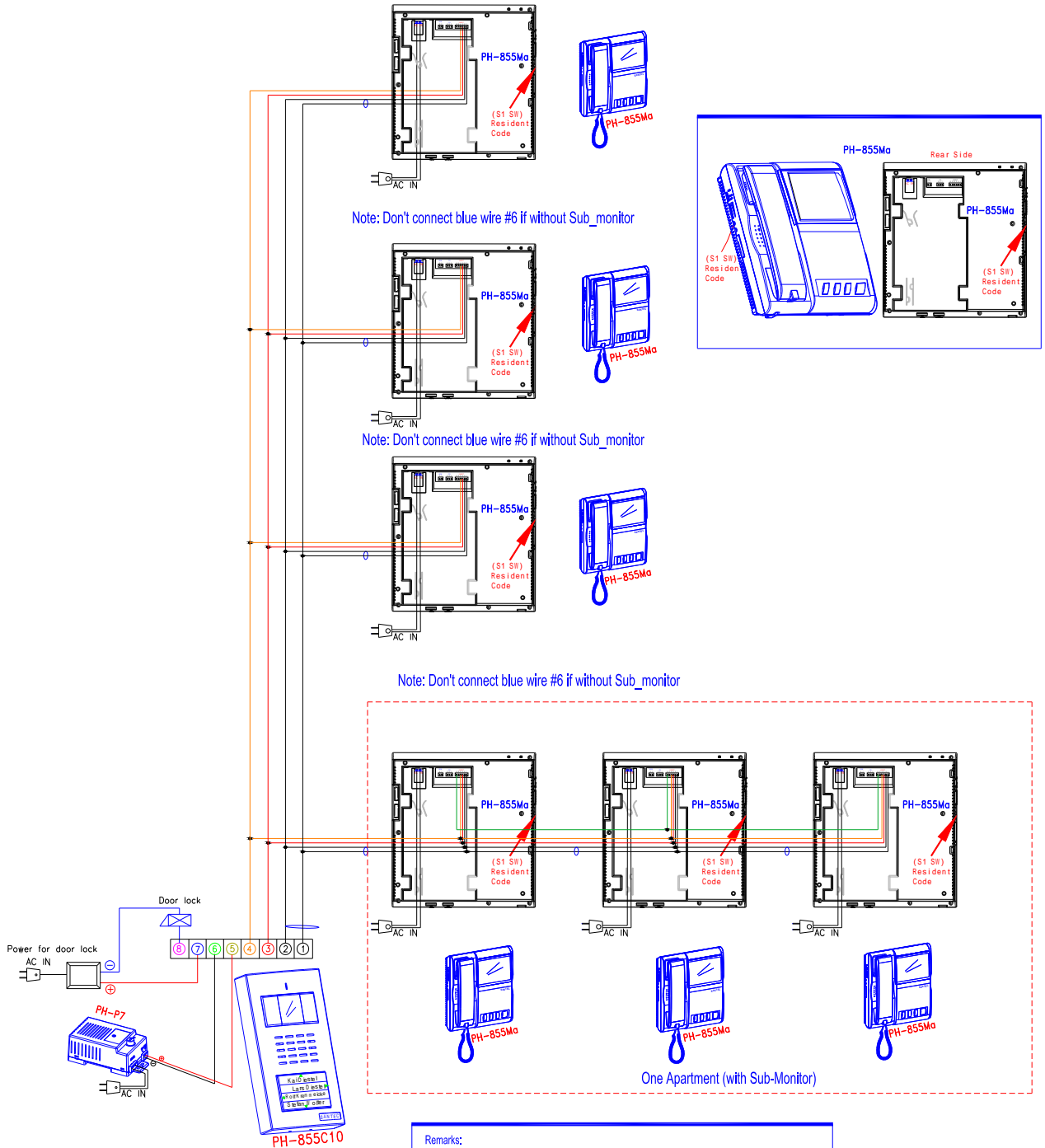G. W.: 2.0 kgs
        0.08 cuft.

Specifications:
Power Source: AC100-240V 47-63HZ
Output: DC15V/ 1.0A
Dimensions: 54X102X36 mm
N.W.: 115 gs
Dual Purpose fixed way: European type of
    Din Rail or hangings type
Separated connectors AC / DC
When output LED indicator off: Fuse open
No need to dismantle from cover, you can
    change fuse easily
It's a convenient size (115 g / 54x102x36 mm)

PH-855 System For 1 ~ 4 Apartments Installation Guide

Note: The Last PH-855Ma must turn the 75 ohms to on.

PH-855Ma

(S1 SW)
Resi dent
Code

PH-855Ma

AC IN

PH-855Ma   Rear Si de

PH-855Ma

(S1 SW)
Resi dent
Code

(S1 SW)
Resi dent
Code

Note: Don't connect blue wire #6 if without Sub_monitor

PH-855Ma

(S1 SW)
Resi dent
Code

PH-855Ma

AC IN

Note: Don't connect blue wire #6 if without Sub_monitor

PH-855Ma

(S1 SW)
Resi dent
Code

PH-855Ma

AC IN

Note: Don't connect blue wire #6 if without Sub_monitor

PH-855Ma   PH-855Ma   PH-855Ma

(S1 SW)   (S1 SW)   (S1 SW)
Resi dent   Resi dent   Resi dent
Code   Code   Code

AC IN   AC IN   AC IN

Door lock

Power for door lock
AC IN

⑧ ⑦ ⑥ ⑤ ④ ③ ② ①

PH-P7

AC IN

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PH-855C10

PH-855Ma   PH-855Ma   PH-855Ma

One Apartment (with Sub-Monitor)

Remarks:
1. One Apartment Monitor capacity: 3 PH-855Ma
2. The wire specifications : AWG #20 at least
3. The Video Cable : RG59(75 ohms) at least.
4. PH-855Ma programming: Press the button (S1) on the rear side, until you hear a beep. You
   have 30 seconds to press the key (on PH-855C10). The PH-855Ma will be powered on and
   there is "Ding-Dong, Ding-Dong" sound twice to confirm the setting is successfully made.
5. PH-855 system don't supply the power for door lock. Please prepare an independent power
   for door lock.

NO: DATE:
ph855-01-R1   19 May 2004

PH-855 System For 5 ~ 10 Apartments Installation Guide

Note: The Last PH-855Ma must turn the 75 ohms to on.

PH-855Ma

(S1 SW)
Resident Code

PH-855Ma

AC IN

Note: Don't connect blue wire #6 if without Sub_monitor

PH-855Ma

(S1 SW)
Resident Code

PH-855Ma

AC IN

Note: Don't connect blue wire #6 if without Sub_monitor

PH-855Ma

(S1 SW)
Resident Code

PH-855Ma

AC IN

PH-855Ma   Rear Side

PH-855Ma

(S1 SW)
Resident Code

(S1 SW)
Resident Code

Note: Don't connect blue wire #6 if without Sub_monitor

PH-855Ma   PH-855Ma   PH-855Ma

(S1 SW)   (S1 SW)   (S1 SW)
Resident Code   Resident Code   Resident Code

AC IN   AC IN   AC IN

PH-855Ma   PH-855Ma   PH-855Ma

One Apartment (with Sub-Monitor)

Door lock

Power for door lock
AC IN

⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①

PH-P7

AC IN

PH-855C5   PH-855C5

OR

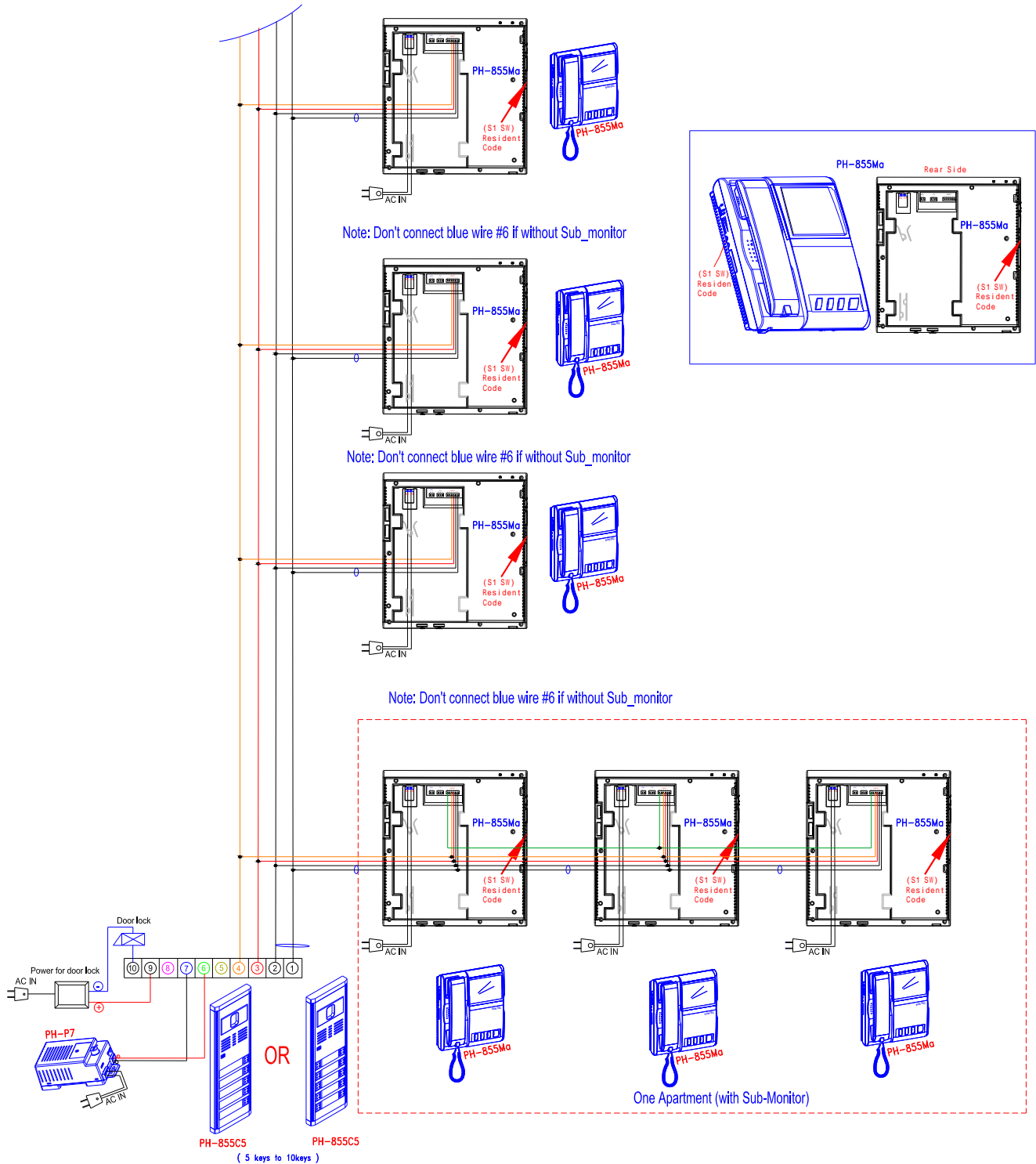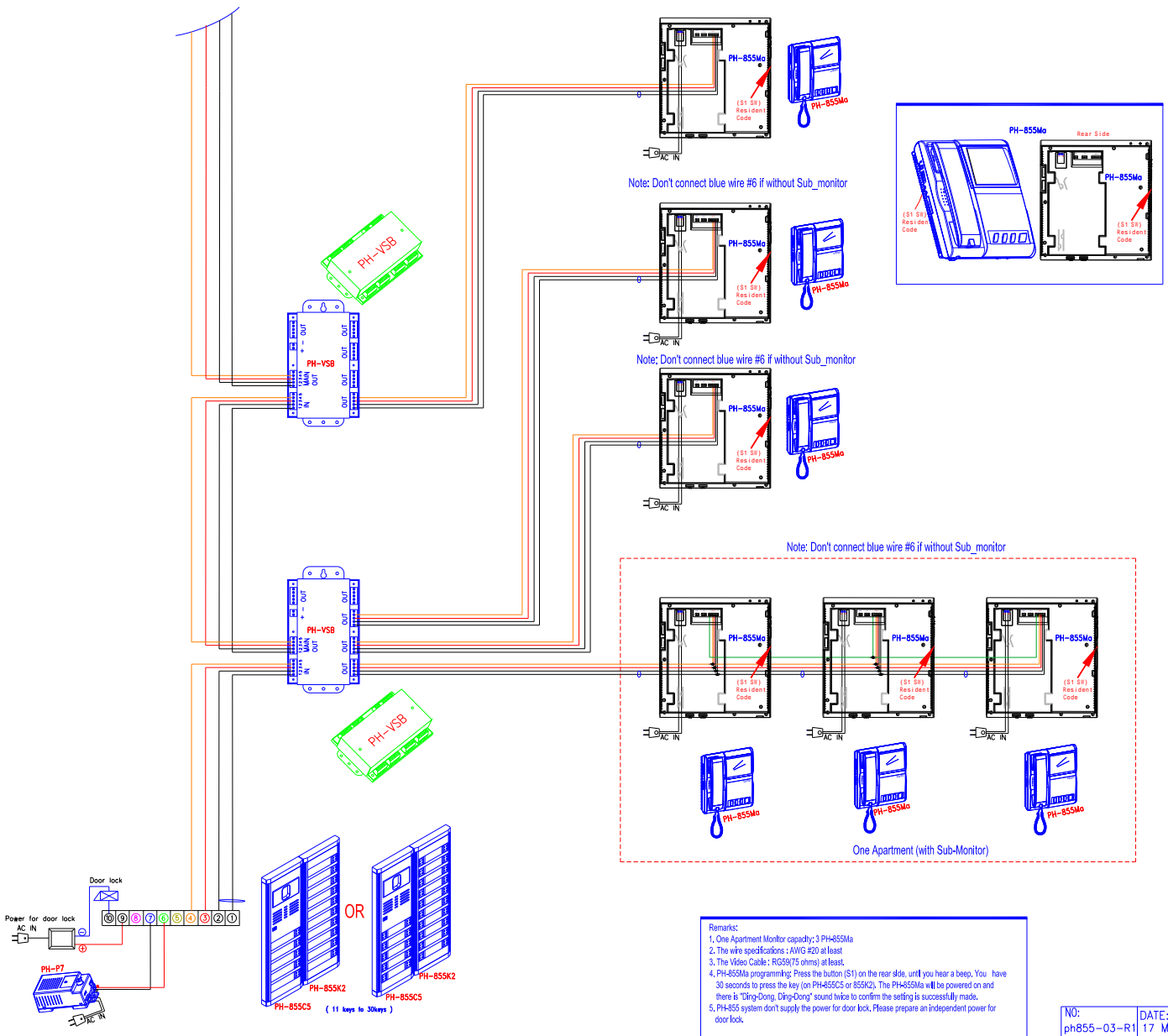PH-855C5   PH-855C5
(5 keys to 10keys)

Remarks:
1. One Apartment Monitor capacity: 3 PH-855Ma
2. The wire specifications : AWG #20 at least
3. The Video Cable : RG59(75 ohms) at least.
4. PH-855Ma programming: Press the button (S1) on the rear side, until you hear a beep. You have
   30 seconds to press the key (on PH-855C5). The PH-855Ma will be powered on and there is
   "Ding-Dong, Ding-Dong" sound twice to confirm the setting is successfully made.
5. PH-855 system don't supply the power for door lock. Please prepare an independent power for
   door lock.

NO:	DATE:
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PH-855 System For 11 ~ 30 Apartments Installation Guide

Note: The Last PH-855Ma must turn the 75 ohms to on.

PH-855Ma
(S1 SW)
Resident Code
PH-855Ma
AC IN

PH-855Ma
Rear Side

(S1 SW)
Resident Code

(S1 SW)
Resident Code

Note: Don't connect blue wire #6 if without Sub_monitor

PH-VSB

PH-VSB

PH-855Ma
(S1 SW)
Resident Code
PH-855Ma
AC IN

Note: Don't connect blue wire #6 if without Sub_monitor

PH-VSB

PH-855Ma
(S1 SW)
Resident Code
PH-855Ma
AC IN

Note: Don't connect blue wire #6 if without Sub_monitor

PH-VSB

PH-855Ma
(S1 SW)
Resident Code

PH-855Ma
(S1 SW)
Resident Code

PH-855Ma
(S1 SW)
Resident Code

AC IN   AC IN   AC IN

PH-855Ma   PH-855Ma   PH-855Ma

One Apartment (with Sub-Monitor)

Door lock
Power for door lock
AC IN

⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①

PH-P7
AC IN

PH-855C5   PH-855K2   OR   PH-855K2   PH-855C5

(11 keys to 30keys)

Remarks:
1. One Apartment Monitor capacity: 3 PH-855Ma
2. The wire specifications : AWG #20 at least.
3. The Video Cable : RG59(75 ohms) at least.
4. PH-855Ma programming: Press the button (S1) on the rear side, until you hear a beep. You have 30 seconds to press the key (on PH-855C5 or 855K2). The PH-855Ma will be powered on and there is "Ding-Dong, Ding-Dong" sound twice to confirm the setting is successfully made.
5. PH-855 system don't supply the power for door lock. Please prepare an independent power for door lock.