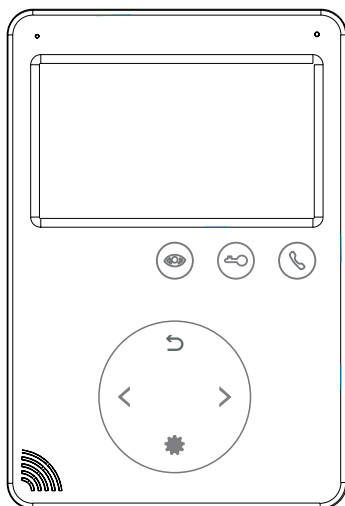# VIDEO ENTRY PHONE DISPLAY
VP-816B / VP-816W

Thank you for buying this product from Zamel.
Zamel shall not accept any liability for any results of damage and/or accidents
caused by non-intended use of the product.
Before attempting to install this product, please read and understand the entire
Operating Manual to comply with the intended use.
Do not open or tamper with the product without prior authorization. Otherwise your
warranty rights for this product will be void.

SAFETY

- Always follow this Manual for your safety and to prevent damage to the product.
- Do not connect more than one load to a single power outlet at a time. Risk of overheating the wiring or fire!
- Do not connect or interface this device with incompatible products. Otherwise there is a risk of an electrical short circuit, resulting in damage to this product.
- Protect the display main board and screen from deformation by any stress. Do not apply heavy loads. Otherwise there is a risk of fire.
- Do not clean the display screen or housing with water or detergents. Risk of damage to the display housing and/or screen, electrical short circuit, and/or fire! Clean the display with a soft, dry cloth made of cotton or microfibre. This will prevent scratching the display screen. Never use toilet paper or tissues.
- Do not install in a highly humid indoor environment. Risk of electrical short circuit and fire!
- Disconnect the power cord from the mains by holding the plug and not the cable. Damage to the power cord cable may result in an electric short circuit or a fire.
- Do not plug the power cord to the mains with wet hands. Electrocution hazard!
- Do not attempt to disassemble, repair or alter this product on your own. Risk of electrocution, damage to the product and/or fire!
- Do not install a current breaker on the mains connection of the device. Electrocution hazard!

PRODUCT DESCRIPTION

- 4.3" colour LCD touch screen
- 4-core wiring
- Intuitive interface
- Internal calls (display-to-display intercom mode)
- Public Address mode
- Gate and wicket opening control
- Supports up to two CCTV feeds
- Supports up to two entrance panels
- On-demand video feed monitoring from entrance panels and all connected CCTV cameras
- Two-way voice communication
- High display screen resolution: 800 × 480
- Clear voice handset-free device
- Language selection
- Intuitive buttons
- 10-step voice volume control
- 10-step brightness, contrast and saturation control
- 10-step ringtone volume control
- 13 polyphonic ringtones

WIRING PROFILE

- ≤ 50 m (4 x 0.5 mm^2)
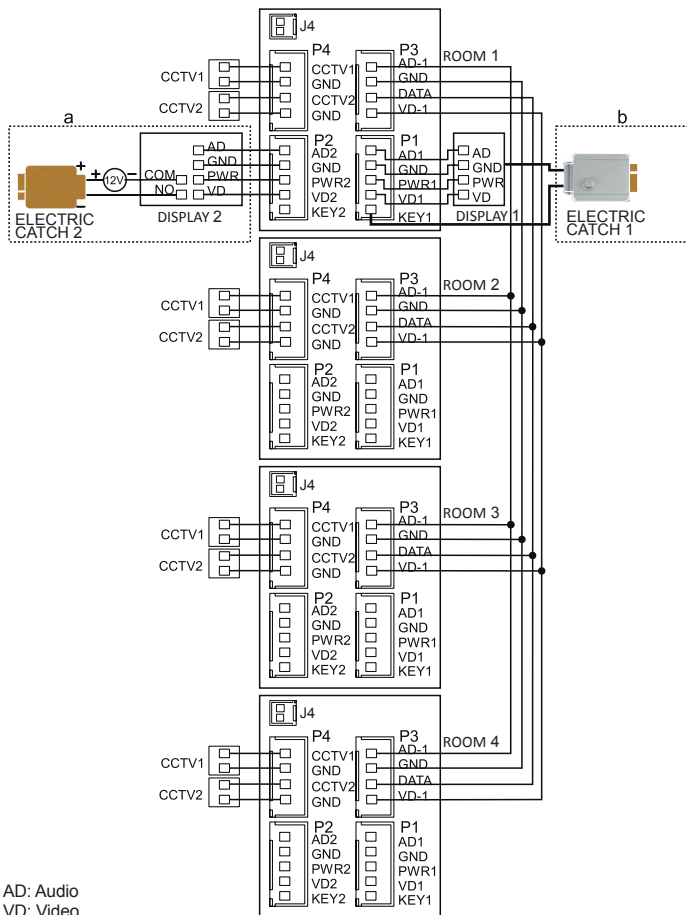- ≤ 75 m (4 x 0.75 mm^2)
- ≤ 100 m (4 x 1.0 mm^2)

TECHNICAL DATA

- Operating temperature: -30°C to +60°C
- Supply voltage: 110-240 V AC / 50-60 Hz; 14.5 V DC / 0.8 A
- Power input: 7 W (max); 0.7 W (standby)
- Operating RH: 0% to 95%
- Display dimensions: 170 x 116 x 16 mm
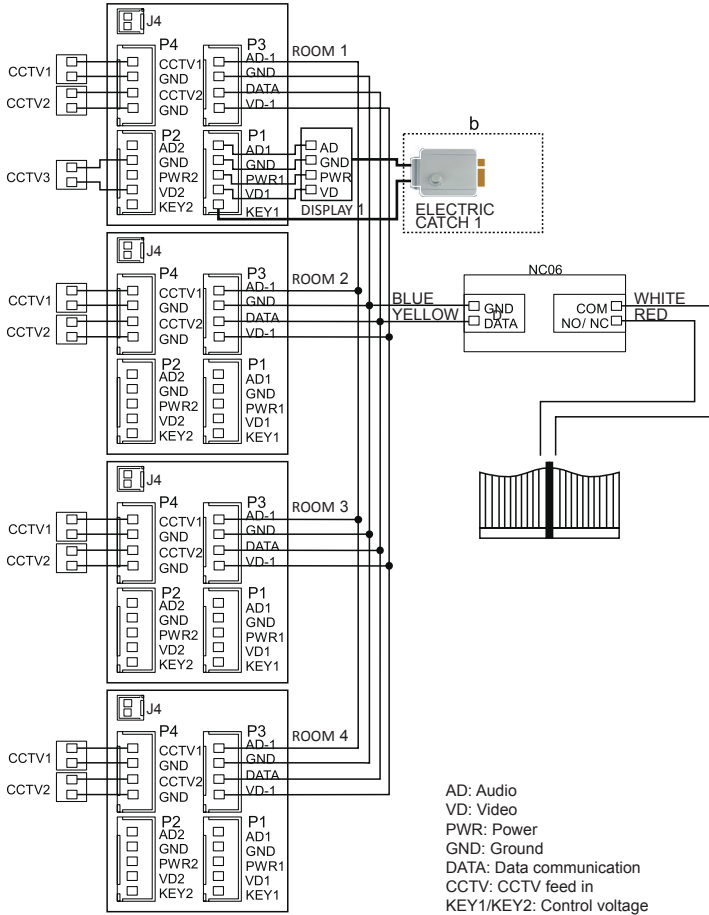- Weight: 206 g

PRODUCT COMPONENTS

- 1 x Display unit
- 1 x Operating Manual
- 1 x Base stand
- 2 x Wall plugs
- 2 x M4 x 30 screws
- 2 x 5-pin male connector
- 1 x 4-pin male connector
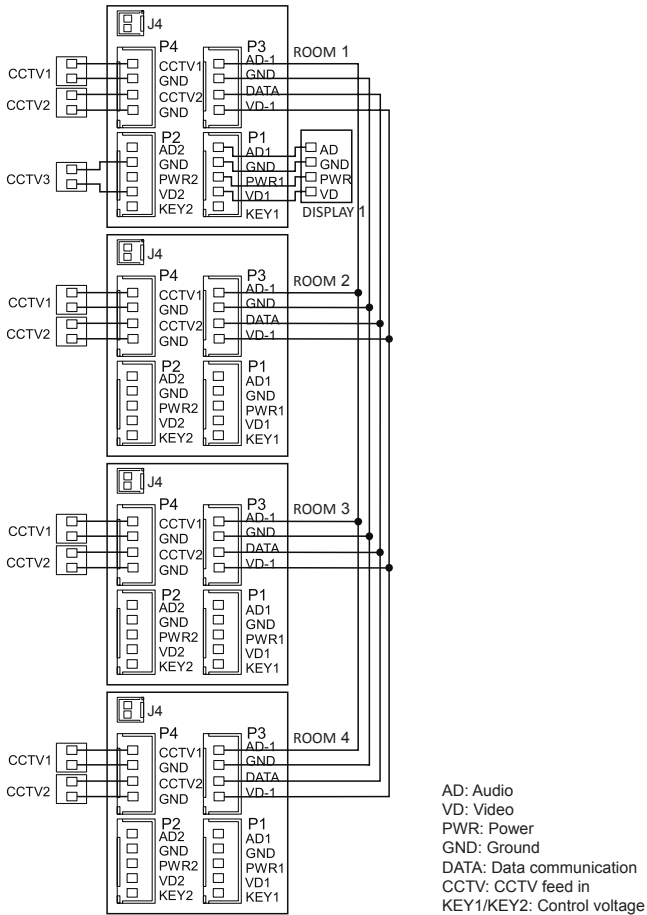- 1 x 4-pin male connector

WIRING CONNECTION DIAGRAM

J4

P4 — P3 — ROOM 1
CCTV1 / GND — CCTV1 GND — AD-1 GND
CCTV2 / GND — CCTV2 GND — DATA VD-1

a
P2 — P1
AD / GND / PWR / VD
AD2 GND PWR2 VD2 KEY2 — AD1 GND PWR1 VD1 KEY1 — AD GND PWR VD
COM NO — 12V — +
ELECTRIC CATCH 2
DISPLAY 2 — DISPLAY 1
b
ELECTRIC CATCH 1

J4
P4 — P3 — ROOM 2
CCTV1 / GND — CCTV1 GND — AD-1 GND
CCTV2 / GND — CCTV2 GND — DATA VD-1
P2 — P1
AD2 GND PWR2 VD2 KEY2 — AD1 GND PWR1 VD1 KEY1

J4
P4 — P3 — ROOM 3
CCTV1 / GND — CCTV1 GND — AD-1 GND
CCTV2 / GND — CCTV2 GND — DATA VD-1
P2 — P1
AD2 GND PWR2 VD2 KEY2 — AD1 GND PWR1 VD1 KEY1

J4
P4 — P3 — ROOM 4
CCTV1 / GND — CCTV1 GND — AD-1 GND
CCTV2 / GND — CCTV2 GND — DATA VD-1
P2 — P1
AD2 GND PWR2 VD2 KEY2 — AD1 GND PWR1 VD1 KEY1

AD: Audio
VD: Video
PWR: Power
GND: Ground
DATA: Data communication
CCTV: CCTV feed in
KEY1/KEY2: Control voltage

J4

P4
CCTV1 — CCTV1
CCTV2 — GND
— CCTV2
— GND

P3 — ROOM 1
AD-1
GND
DATA
VD-1

P2
AD2
CCTV3 — GND
PWR2
VD2
KEY2

P1
AD1
GND
PWR1
VD1
KEY1

AD
GND
PWR
VD
DISPLAY 1

b
ELECTRIC
CATCH 1

J4

P4
CCTV1 — CCTV1
CCTV2 — GND
— CCTV2
— GND

P3 — ROOM 2
AD-1
GND
DATA
VD-1

P2
AD2
GND
PWR2
VD2
KEY2

P1
AD1
GND
PWR1
VD1
KEY1

BLUE
YELLOW

NC06
GND
DATA

COM
NO/ NC

WHITE
RED

J4

P4
CCTV1 — CCTV1
CCTV2 — GND
— CCTV2
— GND

P3 — ROOM 3
AD-1
GND
DATA
VD-1

P2
AD2
GND
PWR2
VD2
KEY2

P1
AD1
GND
PWR1
VD1
KEY1

J4

P4
CCTV1 — CCTV1
CCTV2 — GND
— CCTV2
— GND

P3 — ROOM 4
AD-1
GND
DATA
VD-1

P2
AD2
GND
PWR2
VD2
KEY2

P1
AD1
GND
PWR1
VD1
KEY1

AD: Audio
VD: Video
PWR: Power
GND: Ground
DATA: Data communication
CCTV: CCTV feed in
KEY1/KEY2: Control voltage

Note:
(a) Wiring connection diagram for an entrance panel with electric catch
    no. 2 + extra external power supply.
(b) Wiring connection diagram for electric catch no. 1 with
    the display output power (GND and KEY1 contacts).
(c) External power supply port J4 (optional)
(d) Wiring connection diagram for the NC06 gate control module
    (Connector P3 GND and DATA to NC06; COM NO/NC to gate control)

4

J4

P4
CCTV1 — CCTV1
CCTV2 — GND
— CCTV2
— GND

P3
AD-1
GND
DATA
VD-1

ROOM 1

P2
AD2
GND
CCTV3 — PWR2
VD2
KEY2

P1
AD1
GND
PWR1
VD1
KEY1

AD
GND
PWR
VD

DISPLAY 1

J4

P4
CCTV1 — CCTV1
CCTV2 — GND
— CCTV2
— GND

P3
AD-1
GND
DATA
VD-1

ROOM 2

P2
AD2
GND
PWR2
VD2
KEY2

P1
AD1
GND
PWR1
VD1
KEY1

J4

P4
CCTV1 — CCTV1
CCTV2 — GND
— CCTV2
— GND

P3
AD-1
GND
DATA
VD-1

ROOM 3

P2
AD2
GND
PWR2
VD2
KEY2

P1
AD1
GND
PWR1
VD1
KEY1

J4

P4
CCTV1 — CCTV1
CCTV2 — GND
— CCTV2
— GND

P3
AD-1
GND
DATA
VD-1

ROOM 4

P2
AD2
GND
PWR2
VD2
KEY2

P1
AD1
GND
PWR1
VD1
KEY1

AD: Audio
VD: Video
PWR: Power
GND: Ground
DATA: Data communication
CCTV: CCTV feed in
KEY1/KEY2: Control voltage

- The second and each additional display may only output the video feeds from the cameras to which they are connected.
- All displays can output the video feed of a CCTV camera connected to the entrance panel port.

SYSTEM CONFIGURATION

The system can be installed in one of the configurations shown
in the diagrams below:

• 2 gate entrance panels + 4 displays + 2 CCTV cameras for each display
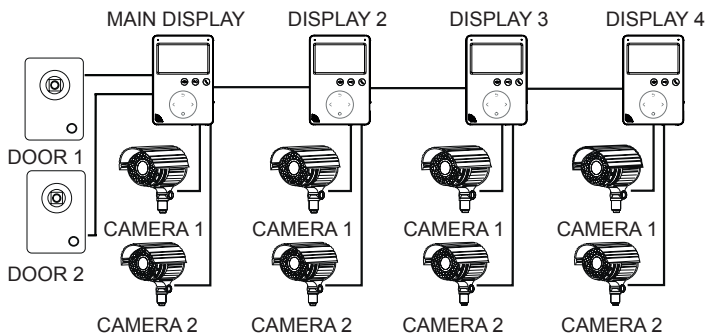
• 1 gate entrance panel + 1 CCTV camera + 4 displays + 2 CCTV cameras
  for each display
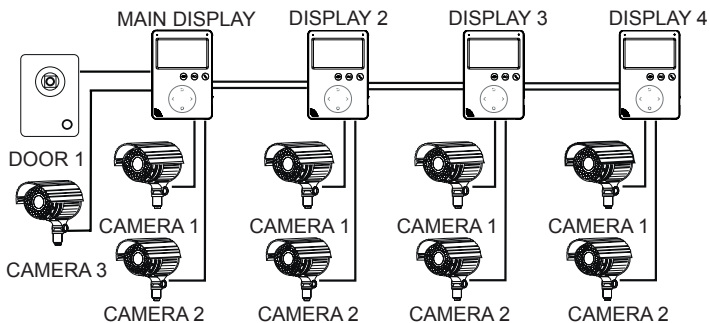
PRODUCT DESCRIPTION
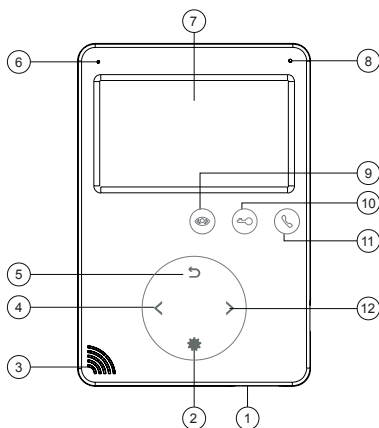
1. Power On/Off switch
2. Enter Menu / Confirm
3. Speaker
4. Left arrow button: Select / Adjust
5. Back / Hang Up
6. LED indicator
7. LCD
8. Microphone
9. Video feed display
10. Unlock electric catch / gate
11. Answer / Call
12. Right arrow button: Select / Adjust

INSTALLING THE SYSTEM

1. Use the wiring connection diagram for the chosen system configuration and verify that all wiring connections are correct.
2. Choose a suitable location in which to install the display unit. An installation height between 1.5 and 1.6 m above the ground is recommended.
3. Verify that the power supply voltage is OFF before wiring the device.
4. Mount the back frame on the wall at the installation location.
5. Connect the wiring to the terminals, see the wiring connection diagram for the chosen system configuration.
6. Install the display unit on the back frame.
7. Switch on the supply voltage of the device when completely installed.

150cm
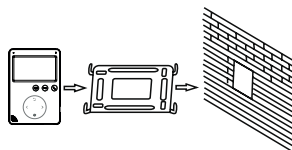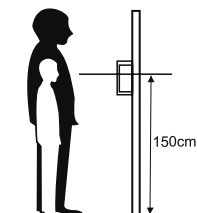
WIRING SPECIFICATIONS

The system supports two electric catch release configurations: with the open command sent by (i) an entrance panel or (ii) a system display (the display open command output wire must have the shield connected to earth).

If the open command is sent by an entrance panel, use this wiring specification:
• If the entrance panel is < 30 m away from the video entry phone display, use YTDYw 4 x 0.5 mm^2 wiring.
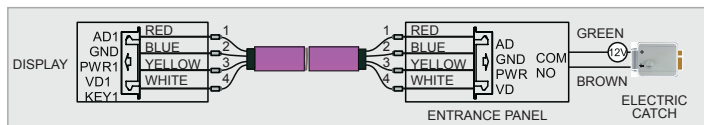
• If the entrance panel is > 30 m away from the video entry phone display, use YTDYw 4 x 0.5 mm^2 wiring.
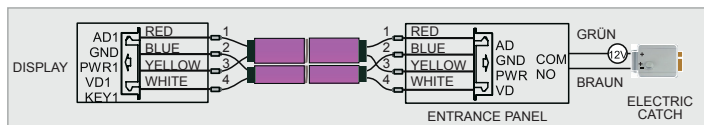
If the open command is sent by a display, use this wiring specification:
• If the entrance panel is < 30 m away from the video entry phone display, use YTDYw 6 x 0.5 mm^2 wiring.
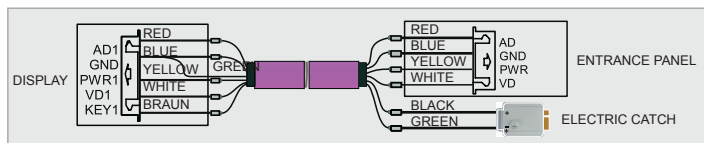
• If the entrance panel is < 30 m away from the video entry phone display, use YTDYw 6 x 0.8 mm^2 wiring.
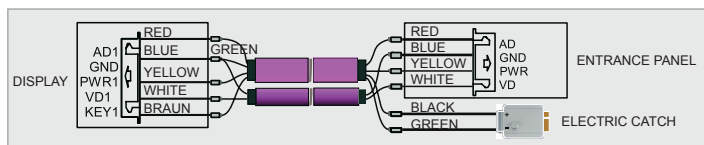
ANSWERING AN ENTRANCE PANEL CALL

When a visitor presses the Call button on the entrance panel, all connected indoor displays will sound the call chime at the same time as the INCOMING CALL message on each display screen. Touch the Ⓒ icon to answer the call. Touch Ⓒ again to send the calling entrance panel camera feed to all other displays. If you touch Ⓒ before the call is switched by a user of another display in the system, you will return to the calling visitor. If the call is not answered by the time the call chime stops, the display will enter standby mode. Touch the ⊙ icon to release the electric catch of the calling entrance panel during the call. The display will show DOOR OPEN. Touch the XXX icon to open the gate. The display will show GATE OPEN. If another caller tries to reach you during your call, the display will show VISITOR AT DOOR 2. Touch the ⊙ icon to answer and switch to the second call.
Note: Touch and hold the Ⓒ icon during an entrance call or an internal call (display-to-display intercom mode) to mute your microphone. The display will show MUTE. Touch and hold Ⓒ again to unmute your microphone, which the display will confirm with SPEAK. Operating a gate requires the NC06 gate control module in the system.

VIDEO FEED MONITORING

With the display on standby, touch and hold ◉ to monitor the video feed from entrance panel 1. Touch ◉ again to switch to the next video feed.
The CCTV camera video feeds can only be monitored this way if the Port 4 status is Enabled (see Table SYSTEM SETTINGS, item 10).
Touch Ⓒ to start a voice call with the visitor at the entrance panel from which you are monitoring the video feed. Touch ⊙ to unlock the door of the same entrance panel. When monitoring the video feed from Door1/Door2/CCTV1/CCTV2, touch and hold ◉ to change the screen aspect from 16:9 to 4:3.

PUBLIC ADDRESS MODE

The Public Address mode allows you to speak through all displays connected to the video entry phone system. When the display is on standby, touch and hold Ⓒ on the screen. The PUBLIC ADDRESS CALL message will be displayed. All other displays in the system will display PUBLIC ADDRESS. You can now speak and be received by other displays in the system. Touch ⑤ to exit the public address mode.

INTERNAL CALLS (DISPLAY-TO-DISPLAY INTERCOM MODE)

The intercom mode allows two-way voice calls between two specific displays in the video entry phone system. Touch ⓒ on the display on standby to call another display in the system. If you have more than 2 displays in the video entry phone system, choose the display you wish to call with ⓒ or ⓒ. Next, touch ⓒ to confirm and make the call. The user at the display being called can touch ⓒ to answer the call or ⓒ to reject the call.

DISPLAY SOUND VOLUME / BRIGHTNESS / COLOUR / CONTRAST / IMAGE TYPE CONTROL

Touch ⓒ or ⓒ in the monitoring, incoming call, voice call, intercom, or public address mode to adjust the sound volume. Touch ⓒ to open the Volume / Brightness / Colour / Contrast / Image Type menu. Operate the controls with ⓒ or ⓒ.

DO NOT DISTURB MODE

You can enable or disable the DO NOT DISTURB mode in the display System Settings menu. With the display on standby, touch and hold ⓒ to enable or disable the Do Not Disturb mode.

DISPLAY MICROPHONE MONITORING

With the display on standby, touch and hold ⓒ to start listening through the microphone of another display in the voice entry phone system. If you have more than 2 displays in the video entry phone system, choose the display you wish to listen to by touching ⓒ or ⓒ and confirm with ⓒ. Note:

a) The user of the display that is listening will hear everything that the microphone of the display being listened to captures. The display being listened to will not output the sounds captured by the microphone of the display which is listening.

b) If you have more than 2 displays in the video entry phone system, verify that the remote listening mode is enabled in the display to which you want to listen. Go to System Settings and verify that Can Be Monitored is set to Enable.

SYSTEM SETTINGS

With the display on standby, touch ⚙ and open the System Settings menu.

Item	System functions	Options	Note
1	LANGUAGE	Default setting: PL (Polish) (optional: EN for English).	
2	RING TIME	Default setting: 30 s (10 to 60 s, adjustable in 5 s steps).	
3	RING VOLUME	Default setting: 0.7, adjustable in the 01-10 range. (00) mutes the sound.	
4	DO NOT DISTURB MODE	The mode is disabled by default during a call from an entrance panel, display-to-display intercom (internal) calls and the public address mode. The LED will flash if this mode is enabled.	
5	MONITORING	The mode is disabled by default. The monitoring of remote display microphones can be enabled in the System Settings.	
6	MONITOR UNLOCK	Touch 🔓 to unlock the electric catch linked to the entrance panel. Touch 🔓 to open the gate linked to the entrance panel.	
7	DEVICE ADDRESS	Room 1 / 2 / 3 / 4	Choose ROOM 1 on the display that should be the main (master) display of the system. The setting will be yellow if the same device address is set in two displays in the video entry phone system.
8	RING TYPE	Door 1 Ring Type	Default setting: 01; options: 01-13
		Door 2 Ring Type	Default setting: 02; options: 01-13
		Intercom Ring Type	Default setting: 03; options: 01-13
9	RING REPEAT	ENABLE	The ringtone will sound repeatedly.
		DISABLE	The ringtone will sound once.
10	PORT STATE	None / CCTV1 / CCTV1&2	
11	RESTORE DEFAULT	Restores the display unit settings to the default values.	

ADVANCED SETTINGS

The Advanced Settings can be accessed by pressing and holding ⊙ while switching on the display. The Advances Settings include:

- Door unlock time
  1-10; 20, 30, 40, 50, 60, 70, 80, 90, 99 s
- Gate status
  Normally open electric catch contact (NO)
  Normally closed electric catch contact (NC)
- Gate unlock time
  0.2, 0.5, 1-5 s
- System type
  Single-family
  Multi-family

The System Type setting applies to connector P1 of the display linked to Door 1.