



2-Wire

Video Intercom System 2017~2018 Catalogue



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Effective Solution to Security Needs

Global Sales Network

GUANGZHOU VIDEO-TECH ELECTRONICS CO.,LTD was founded in 1999 to specialize in the R&D, production and sale of video door phones, we concentrate on developing unique system with V-TECH characters, and after experiencing a rapidly rising in the past ten years, Video-Tech has established many distributor branches all over the world, and we are gradually becoming one of the most popular brands for door-entry system.



CE FCC RoHS REACH

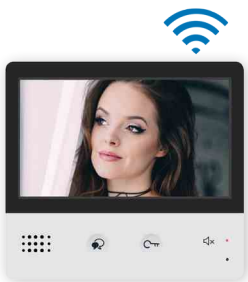
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LATEST LAUNCH

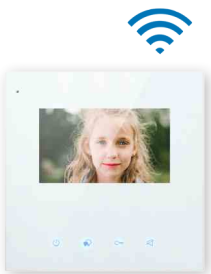
DX471

7 inch TFT
Touch screen
Wi-Fi monitor



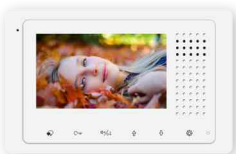
DX439

4.3 inch TFT
Touch screen
Wi-Fi monitor



DT433

4.3 inch TFT
Touch sensor buttons
Economic design



DT608

Stainless steel panel
Max.32 buttons
Fisheye camera



DMR50

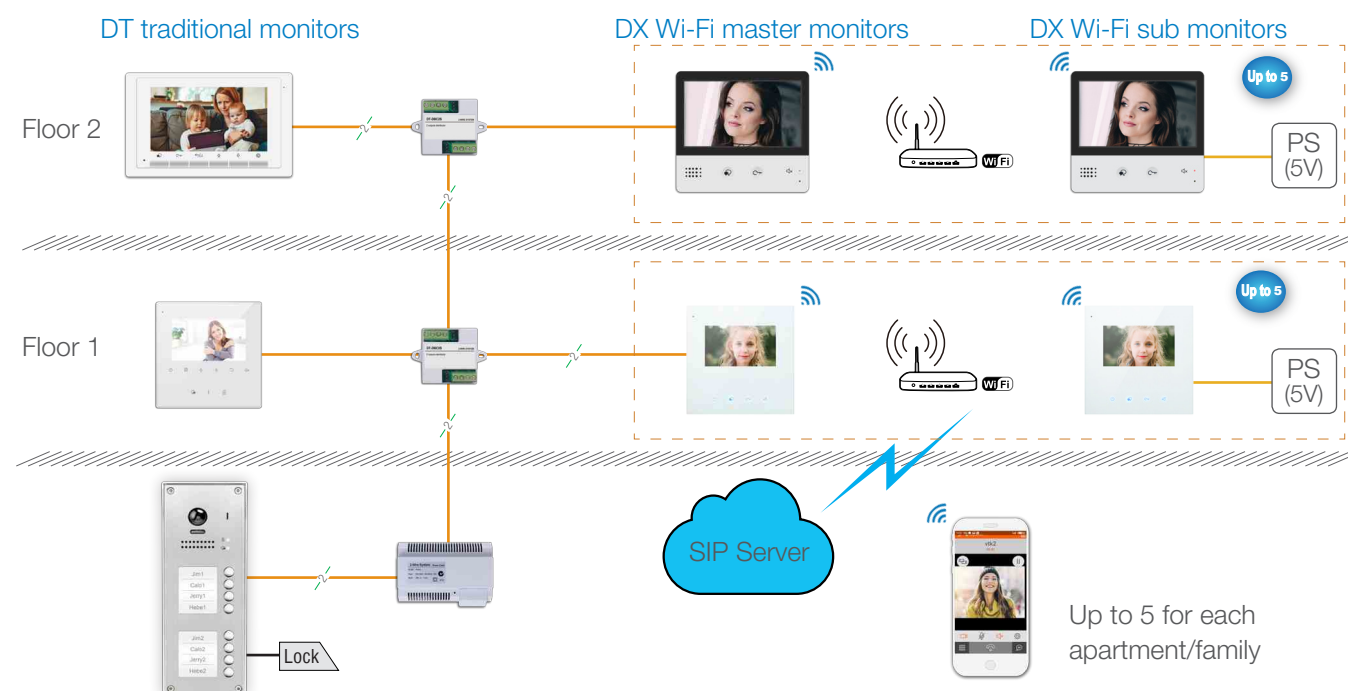
5 inch touch screen
Fisheye camera
Proximity access



WIFI SOLUTION IN HOME SYSTEM



System diagram with mixed DT&DX monitors



System Features



MONITOR DX439

4.3 inch screen

Compact Wi-Fi Monitor

Simple, modern & fashionable design. Thanks to its intuitive menu, users could easily control each function inside monitor step by step.

- 4.3 inch touch screen
- 3mm tempered glass panel
- Sensitive touch sensor buttons
- Simple and intuitive menu style



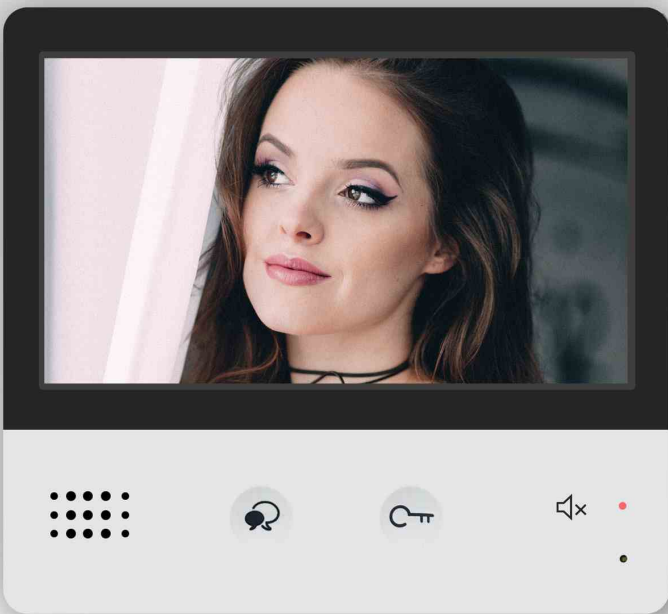
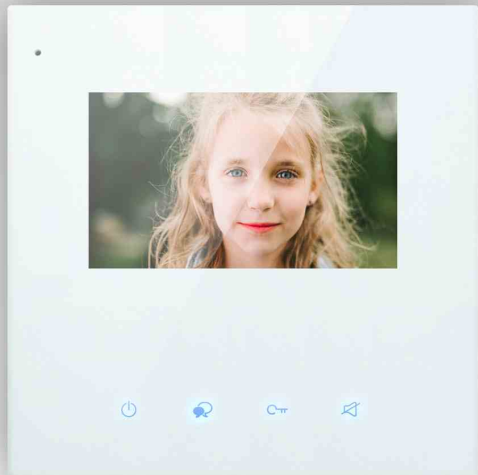
MONITOR DX471

7 inch screen

Big TFT Wi-Fi Monitor

Big TFT display with friendly touch screen operation, logic tree-menu structure for a great experience.

- 7 inch touch screen
- Wi-Fi monitor with 2 wire connection
- Sensitive touch sensor button
- High quality plastic front panel

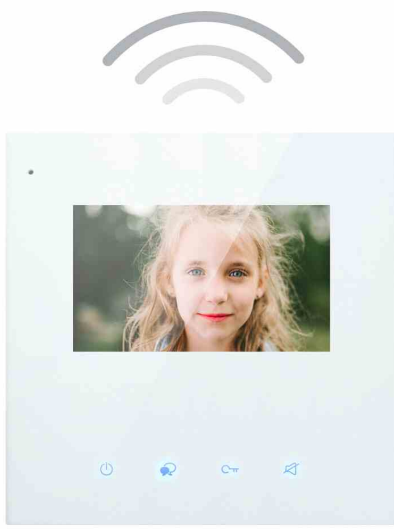


Main functions

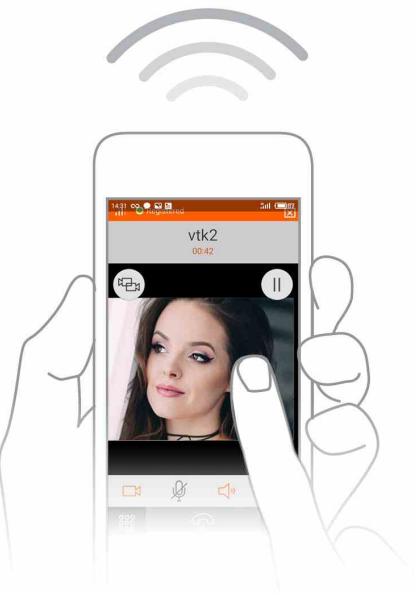
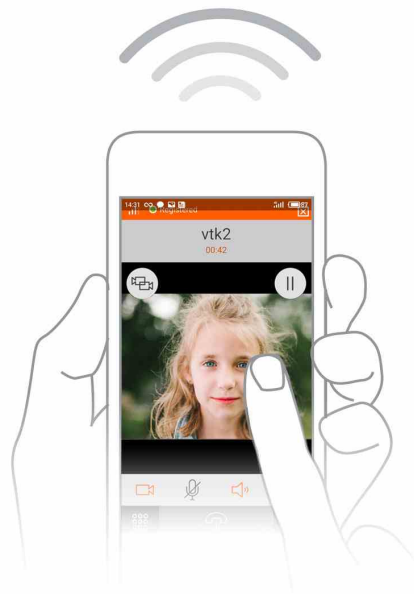
Call divert
Call divert to smart phone

Surveillance
CCTV camera monitoring

Wi-Fi sub monitor connection(WS439)
4.3 inch same style design wireless monitor with photo frame function



Wi-Fi sub monitor



Main functions

Memory
Picture memory or video memory via SD card

Call divert
Call divert to smart phone

Classic kit
Villa kit with DT607 outdoor station (ref. to Page 21)

MONITOR DT433

4.3 inch screen

4.3" Project Monitor

Classics design without any screw assembling, special buckled back cover mounting for more convenience in mounting

- 4.3 inch TFT screen
- Touch button design with visual sweep
- Economic project monitor
- Ultra thin design(17mm)
- No screw assembling & no bracket



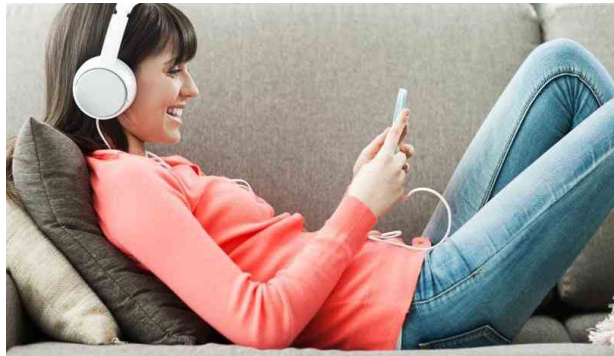
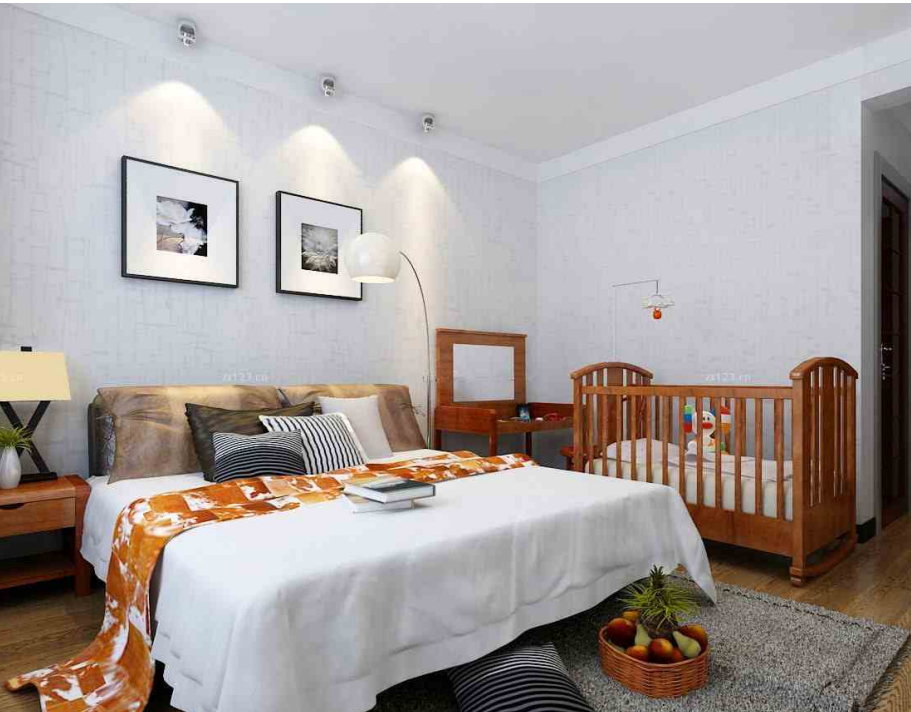
MONITOR DT17

7 inch screen

7" Project Monitor

One to one button-menu operation guide, not only improves friendliness of operation, but also supplies a shortcut for functional response.

- Ultra thin design
- Dummy mechanical button-layer design
- Sensitive touch sensor button
- High qualified ABS plastic with signal white color
- Simple and intuitive menu style



Main functions

- Memory & call divert**
Memory function and call divert via DT-IPG(V2)
- Actuator via DT-RLC**
Light control
2nd lock control
- Surveillance**
CCTV camera monitoring
- Call guard unit**
Intercom with guard person



Main functions

- Communication**
Intercom neighbor conversation
Inner call family member conversation
- Actuator via DT-RLC**
Light control
2nd lock control
- Surveillance**
CCTV camera monitoring
- Peripheral devices**
Door bell & Ringer connection

MONITOR DT37

7 inch screen

Hands free Pad-monitor

Pad design with color icon menu, powerful AIO products with strongest functions, such as message, SMS, max.16 languages

- 7 inch TFT with touch screen
- Aluminum front panel
- Magnetic bracket
- Colorful bar touch area
- Ultra-thin Pad design



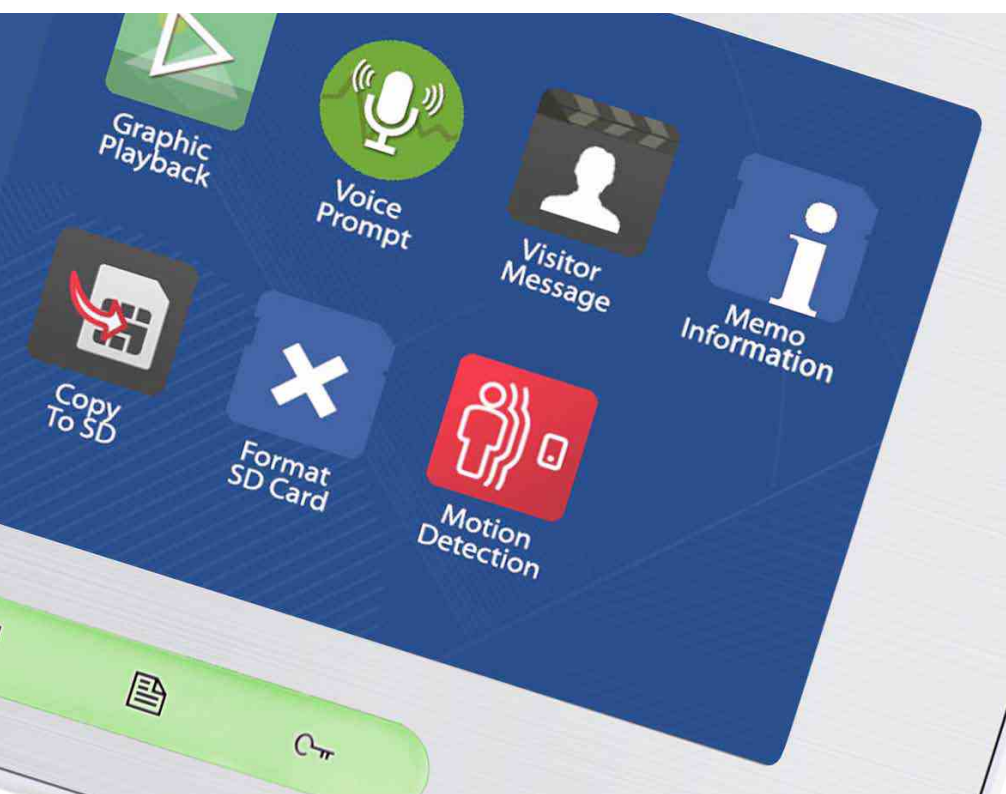
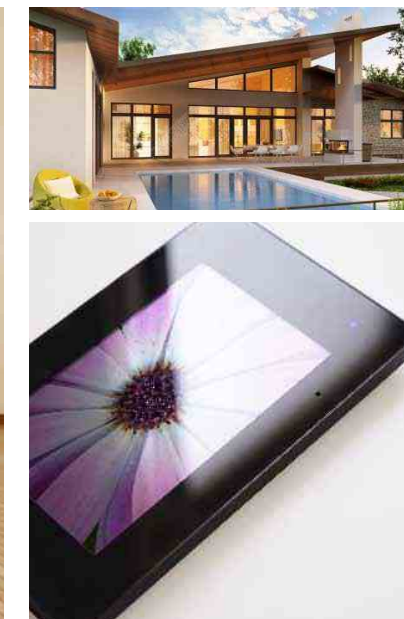
MONITOR DT47

7 inch screen

Capacitive TFT Monitor

Sensitive touch screen operation with color flat icon menu design, high-fidelity audio guarantees great acoustic performance under hands free mode.

- 7 inch capacitive TFT
- Color icon menu
- Touch screen
- True glass panel
- Black or White housing choose



Advanced functions

Communication

Intercom neighbor conversation
Inner call family member conversation
SMS short message between monitors

Home away

Voice message
Picture/video memory

Surveillance

CCTV camera monitoring
Image quad split display
Pan view display by manually



Advanced functions

Actuator via DT-RLC

Light control
2nd lock control

Peripheral devices

Door bell & Ringer connection
Local power connection

Customize

Max. 16 languages embedded
UI customization

DOOR STATION DT601

170° fisheye camera



Fisheye lens outdoor station

Max.170° horizontal and 130° vertical view angle for a safety guarantee on the entry of the door, moreover, touch keypad and proximity access control for passive unlock.

- Stainless steel housing
- Touch sensor keypad
- 3mm glass window
- IP44 waterproof
- Surface & Flush mounting

Multiple access control

Password access control

Support 20 sets password for Lock1 Lock2.

Proximity access control

UP to 320 RFID accesses for Lock1.



DOOR STATION DT607

170° fisheye camera



Outdoor station with max.4 buttons

Villa and apartment working mode for varied requirements, fisheye and normal camera lens for choose.

- Zinc alloy housing
- Working state indicators
- Big nameplate window
- 1~4 push buttons
- IP44 waterproof
- Surface & Flush mounting

Functional Features

Max.170° fisheye lens

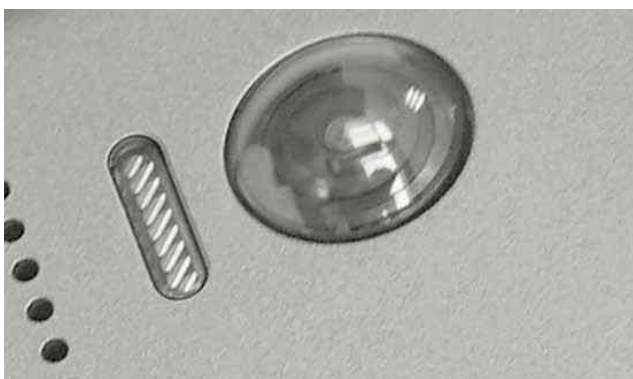
105° lens for optional

Tag proximity access

UP 320 RFID

Villa & apartment mode

Audio version for choose



DOOR STATION DT608

170° fisheye camera

Direct push-button outdoor station

- 2mm Stainless steel panel
- Work-state indicators
- 28mm thickness body
- Surface mounting by rainy hook
- IP 44 waterproof



DOOR STATION DMR50

170° fisheye camera

Luxury touch TFT outdoor station

- Stainless steel housing
- 2.5mm glass panel
- Fisheye camera
- 5 inch TFT with HD display
- Full touch screen operation



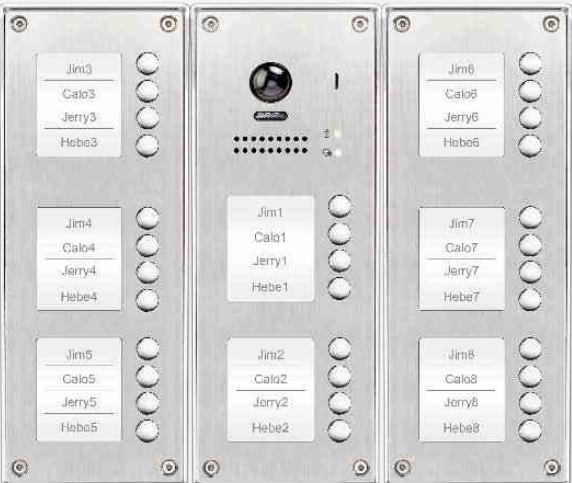
Functional features

- Max. 170° fisheye lens
105° lens for optional
- Max. 32 push buttons via extension
- Tag proximity supports
- Mechanical keypad(customized)



Functional features

- Max. 170° fisheye lens
- User define menu
- Multi calling mode
- Name list management
- Wi-Fi connection(Reserved)



DOOR STATION DMR21

170° fisheye camera

Modularized outdoor station

- Stainless steel housing
- Work-state indicators
- Multi panels extension
- Hidden programming button
- Functional module design
- Flush mounting



DOOR STATION DMR18S

105° ARS camera

Digital keypad outdoor station

- Full aluminium alloy panel
- 3.5 inch TFT
- Mechanical keypad access
- Reliable proximity access
- Touch navigation button
- Surface & Flush mounting



DMR21-Modules

All module can work coordinately or separately



Functional features

Max.170° fisheye lens

Voice prompt function

Local language can be customized

Multi functional module

- ① Video/Audio entry module
- ② TFT display module
- ③ Tag proximity module
- ④ Touch keypad module
- ⑤ Information module

Functional features

New menu-structure design
Color icon menus

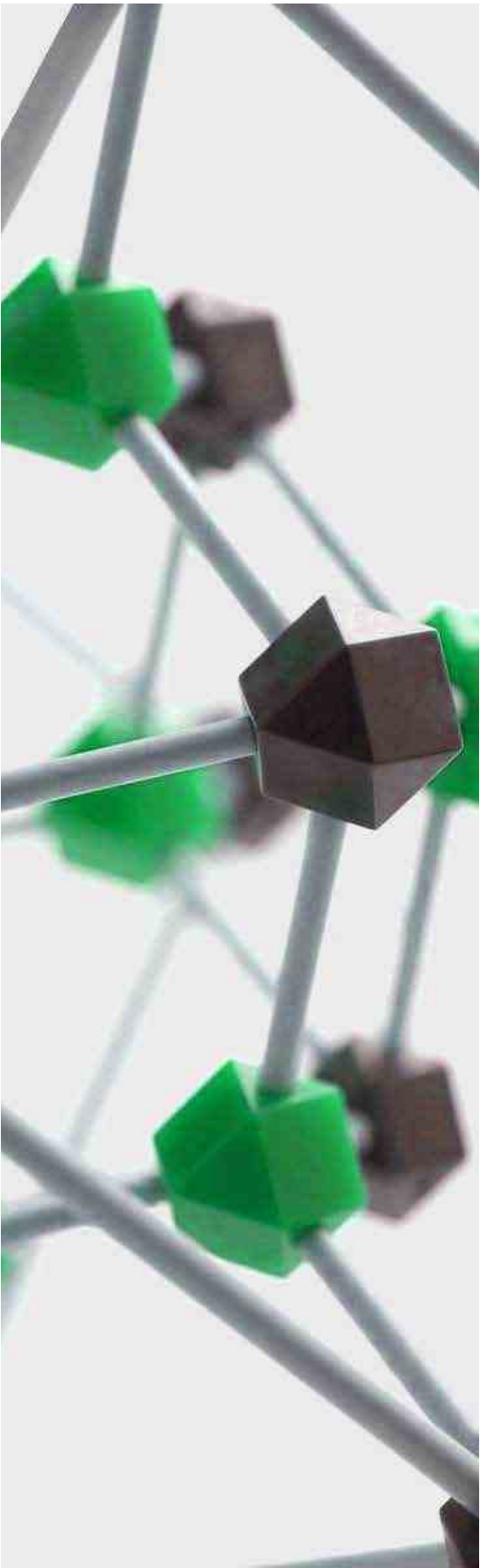
Synthesis language reminder
Allow to make a voice to remind visitors

Large capacity
Max.6368 apartments
Can be played as common door station



SYSTEM DESCRIPTION

2 wire non-polarity bus line



Why 2-Easy?

Advantages of 2-wire system

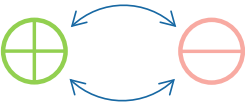
✓ All in One

Power, audio, video and control signal, all transmitted by a 2-wire cable;



✓ Non Polarity

Never afraid of electric shock;



✓ Functional Module

Call transfer, Light control, Camera...etc. module;



✓ Central Power Supply

No black pigtail to home socket;



✓ Flexible Cable

Existing cable is available (parallel/ twisted cable, 18 gauge recommended);



✓ Compatible Use

The new Wi-Fi monitor can be compatible with the old ones;



✓ IP Solution

System extension and IP networking via DT-IPG;



✓ Wi-Fi&mobile Application

Wireless call divert to sub monitor or smart phone.



TYPICAL SOLUTIONS

2 wire non-polarity bus line

	Legend	Application Range	Capacity
Standalone Video Intercom System		Single family house Video solution V1 Page 20-21	Max.16 V/A internal units
		Apartment system Audio, solution A1 Page 22	Max.32 Video internal units
		Apartment system Video, solution V2 Page 23	Max.128 Audio phone
Networked Video Intercom System		High-rise building Video, solution N1, Page 24	Max.199 floor gateway/riser Max.6368 monitors
		Residential complex Video, solution N2, Page 25	Max.32 common door stations Max.32 Guard units Max.199 subsystems

Low Labor Cost Easy to configure the system

Platform Development Villa- Apartment universal

Self Learning Easy to learn how to set up the system



Saving time,
Getting more...



V1: SINGLE FAMILY APPLICATION(FUNCTIONAL KIT)

DT37MG Video KIT



- Monitor:
- 7 inch color TFT screen
 - Touch screen operation
 - Colorful touch sensor bar
 - SMS & message function
 - Pan view display with scanning
 - Picture memory or video memory via SD card
 - Call transfer via DT-IPG(V2)

- Outdoor station
- 170 degree fisheye high resolution camera
 - Waterproof nameplate with blue light background
 - Anti-tamper screw installation
 - Full stainless steel materials design
 - Keypad password / Proximity access control
 - IP44 strong waterproof

Outdoor Option	Monitor Option
Surface mounted	
Flush mounted	

Name	Outdoor	Indoor	Power Supply
DK3701-KP 1 Way Keypad Access Control Video Kit	DT601/KP-FE	DT37MG	PC6A
DK4701-ID 1 Way Proximity Access Control Video Kit	DT601/ID-FE	DT47MG	PC6A

*Please refer to the connectivity part for extension of basic kits.



V1: SINGLE FAMILY APPLICATION(WIFI KIT)

DX471 Video KIT



- Monitor:
- 7 inch color TFT screen
 - Touch screen operation
 - Two wire non polarity connection
 - Call transfer via TCP/IP or SIP
 - Support max.5 wireless devices
 - Picture memory or video memory via SD card
 - Compatible with all two wire devices

- Outdoor station
- 170° wide visual angle
 - Auto-sensor light illumination
 - Unlock and talk indication
 - Multi buttons for 1-4 users
 - Proximity access control
 - IP44 waterproof rate

Outdoor Option	Monitor Option
	

Name	Outdoor	Indoor	Power Supply
DX4707 1 Way Wi-Fi Video Intercom Kit	DT607FE/ID	DX471	PC6A
DX4707C 1 Way Wi-Fi Video Intercom Kit	DT607C	DX471	PC6A

*Please refer to the connectivity part for extension of basic kits.

A1: APARTMENT SYSTEM, AUDIO



Solution Features

- Renovation project with old wiring
- Full audio system with economy
- Bus connection anywhere
- One central power supply

Device Used

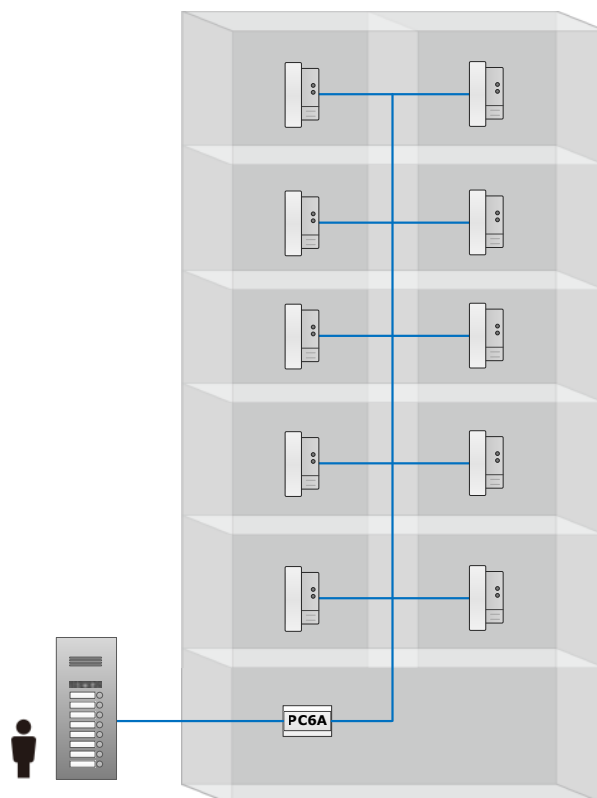
- Multi push button door station
- Handset or hand free indoor units
- Power supply unit

System Capacity

- Max.4 external units
- Max.128 internal units
- No distributor is needed

Configurations

- Set indoor units' DIP address
- Set door station's address(multi entrance)



V2: APARTMENT SYSTEM(STANDARD), VIDEO



Solution Features

- Low and middle rise small apartment
- Perfect for renovations and refurbishment projects by using existing cables
- Upgrading audio system into video system

Device Used

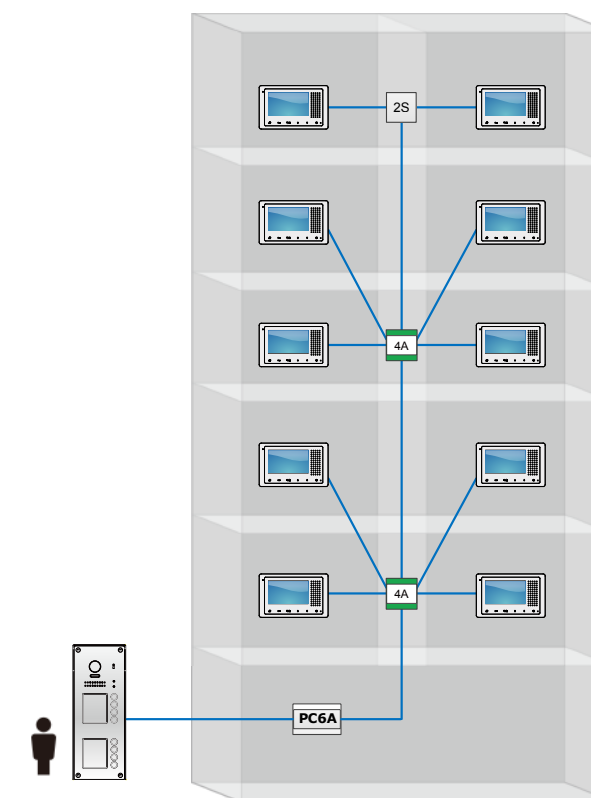
- Push button door stations;
- Several indoor units(Video or audio)
- Branch distributor for star topology
- Power supply unit

System Capacity

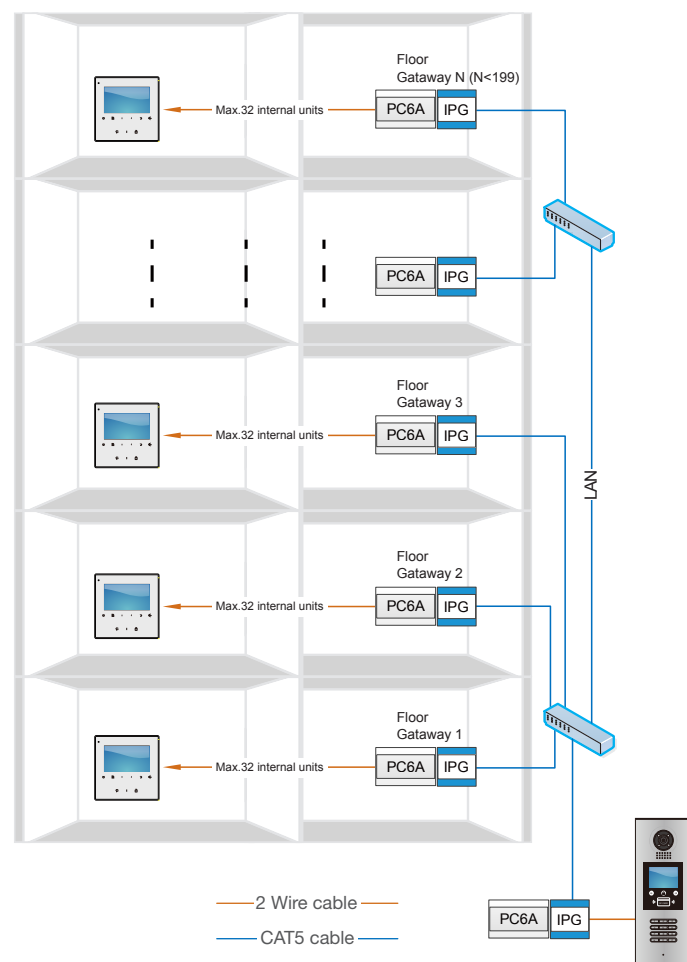
- Max.4 external units
- Max.32 internal units
- Max.8 CCTV camera
- Video and Audio units can be mixed

Configurations

- Set monitors' address(by code or by DIP)
- Set video impedance on farthest distributor
- Set door station's address(multi entrance)



N1: HIGH RISE BUILDING SYSTEM, VIDEO



Solution Features

- Extendable module design suitable for high rise building
- 2-Wire non polarity/center power in each branch line
- Easy wiring according to electric well
- General Ethernet connection among DT-IPGs

Device Used

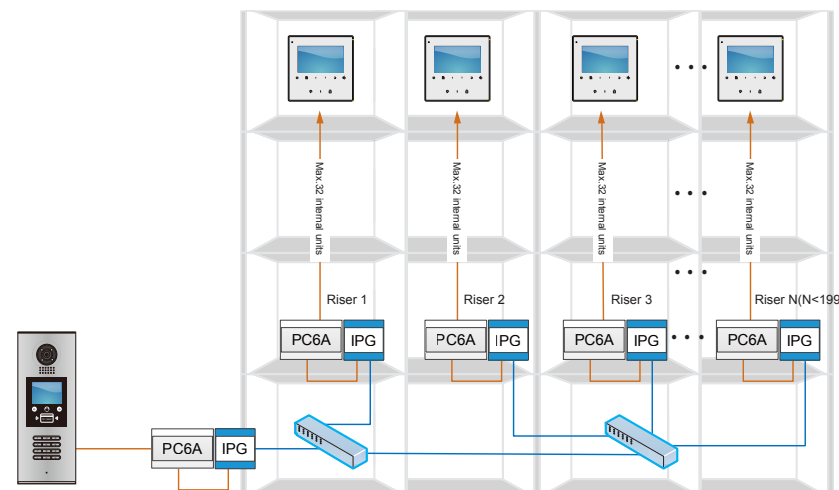
- DT-IPG IP gateway
- DMR18S door stations

Configurations

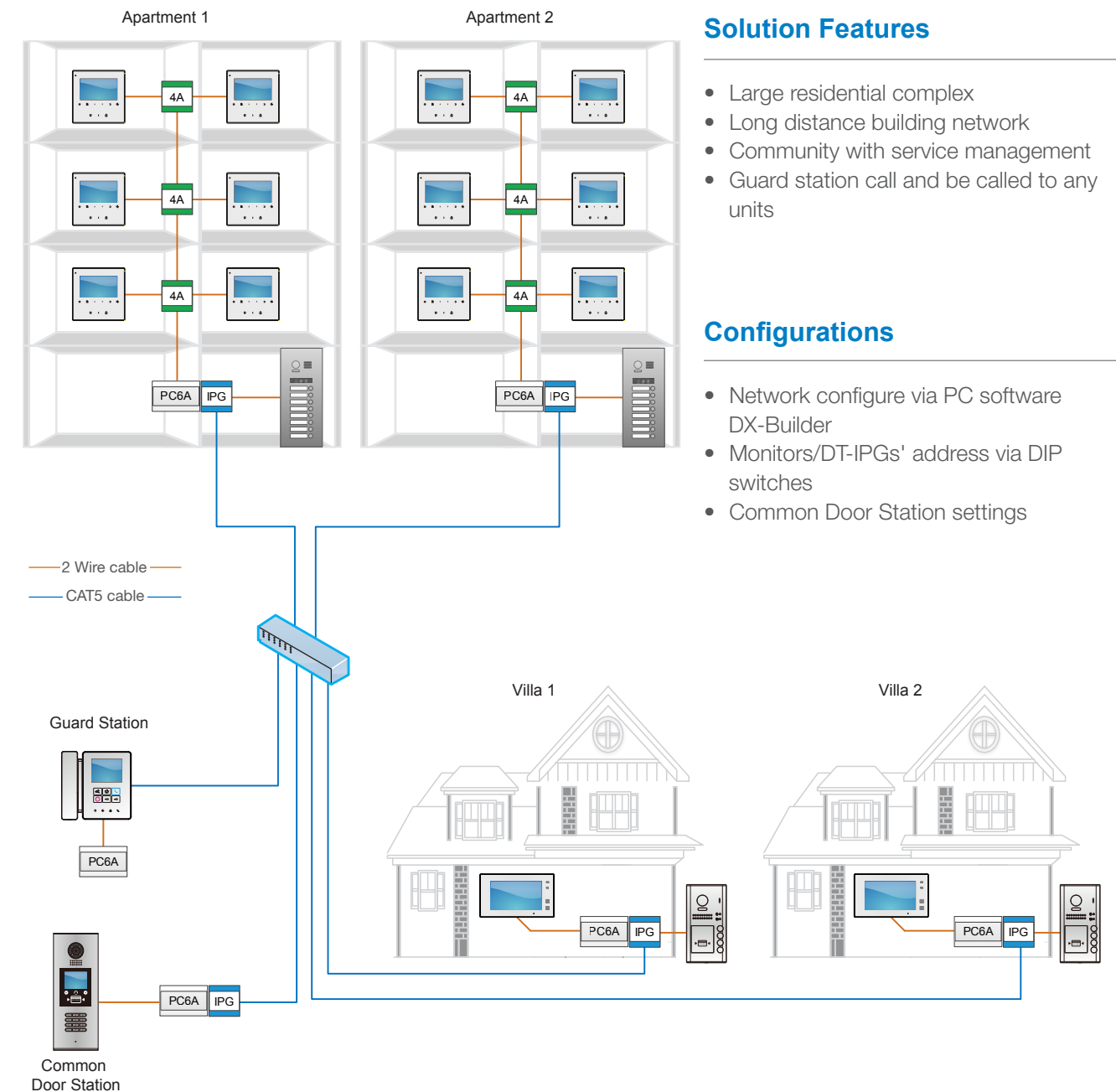
- DT-IPGs/Monitors' addressing via DIP switch
- Advanced setting by PC software DX-Builder

System Capacity

- Max.4 external units
- Max 32 internal units per DT-IPG
- Max.199 DT-IPGs
- Floor door station is feasible (same application with N2 diagram)
- Guard station IP-G24 optional.



N2: IP NETWORK APARTMENT FOR COMPLEX, VIDEO



Solution Features

- Large residential complex
- Long distance building network
- Community with service management
- Guard station call and be called to any units

Configurations

- Network configure via PC software DX-Builder
- Monitors/DT-IPGs' address via DIP switches
- Common Door Station settings

System Capacity

- Max.32 Common door stations
- Max.3 Building door stations(or extend by DT-IPG)
- Max.32 Guard stations
- Max.199 DT-IPGs


Device Used

- DT-IPG IP gateway
- DMR18S Common Door Station
- Guard station IP-G24 for central service management
- General door stations for Sub-system

FUNCTIONAL FEATURES


NETWORK DEVICES FOR 2-WIRE IP HYBIRD SYSTEM

DT-IPG Gateway Converter




- 4 Din-rail design
- Working state indication
- Convenient DIP & button setting

IP-G24 Guard Station



- 4.3" touch TFT screen
- Power switch design
- Handset and Hand free mode
- Desk bracket is optional(DB1)

DX-Builder Configuration Software



- DX-Builder PC software
- System device management
- Network address assignment

Description

- DT-IPG**
Converting 2-Wire analog signal into Ethernet signal, used as system router or IP network converter
- IP-G24**
Guard station terminal with full IP technology, used for switchboard and service management
- DX-builder**
Project configuration software for complex system commissions and project maintain management

Easy wiring

- Plug and play connection**
 - 2wire non-polarity and RJ45 port Centre power by busline
 - No additional power supply
- One-cable connection**
 - POE (RJ45) connection*
- LAN connection**
 - Anywhere through same LAN connection

Quick addressing

- DIP setting**
 - Quick configuration for simple projects or testing projects
- Code setting**
 - Addressing by inputting setting codes
- DX builder for online setting**
 - Centralized configuring by PC or notebook for dozens of IPGs

Convenient maintain

- Debug and quick-check**
 - By glancing 4 indicators' combination
- Online FW updating**
 - Remote updating by network connection
 - Local updating via USB port

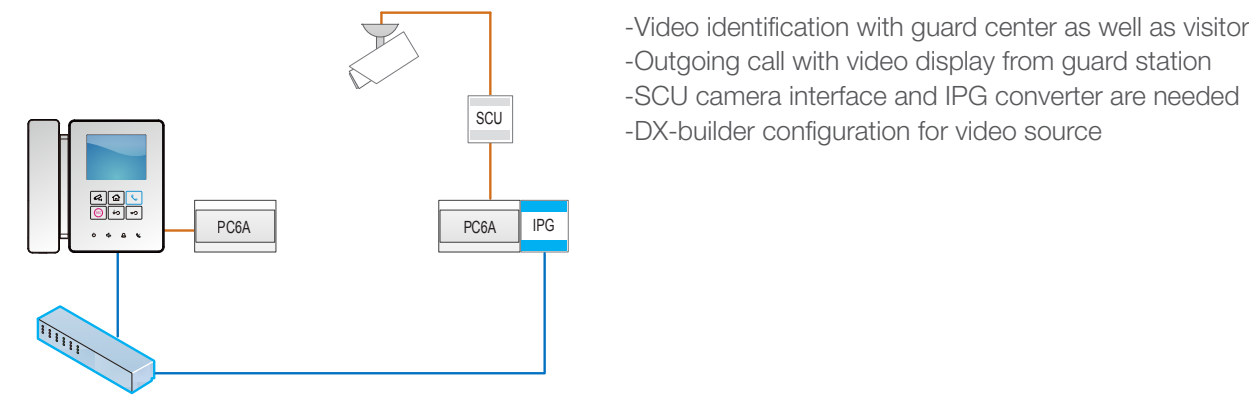
Other functions

- Memory recording
 - Call transfer
 - Refer to next page
- Interaction with devices
 - Multi calling ways & Fuzzy search
 - Events management
 - Day/Night calling transfer
 - Missed call indication

SPECIAL SCENARIO APPLICATIONS VIA MODULES

FUNCTIONAL FEATURES

Camera view from guard station



Upgraded IPG(V2) with memory and call divert function

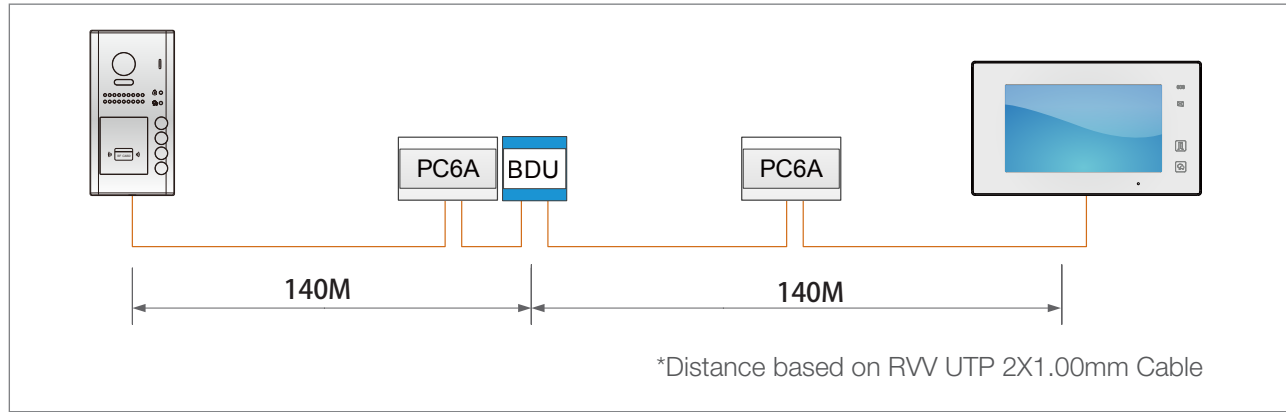


- One module for whole project**
 - Can be installed at anywhere of bus line
- Used as common memory module**
 - Video stored by room calling
 - Retrieve related memory at monitor side
- Used as call transfer module**
 - Pulic WAN network and personal SIP account are needed
 - Wired connection with WAN network

HIGHTLIGHTS: System amplifier DT-BDU



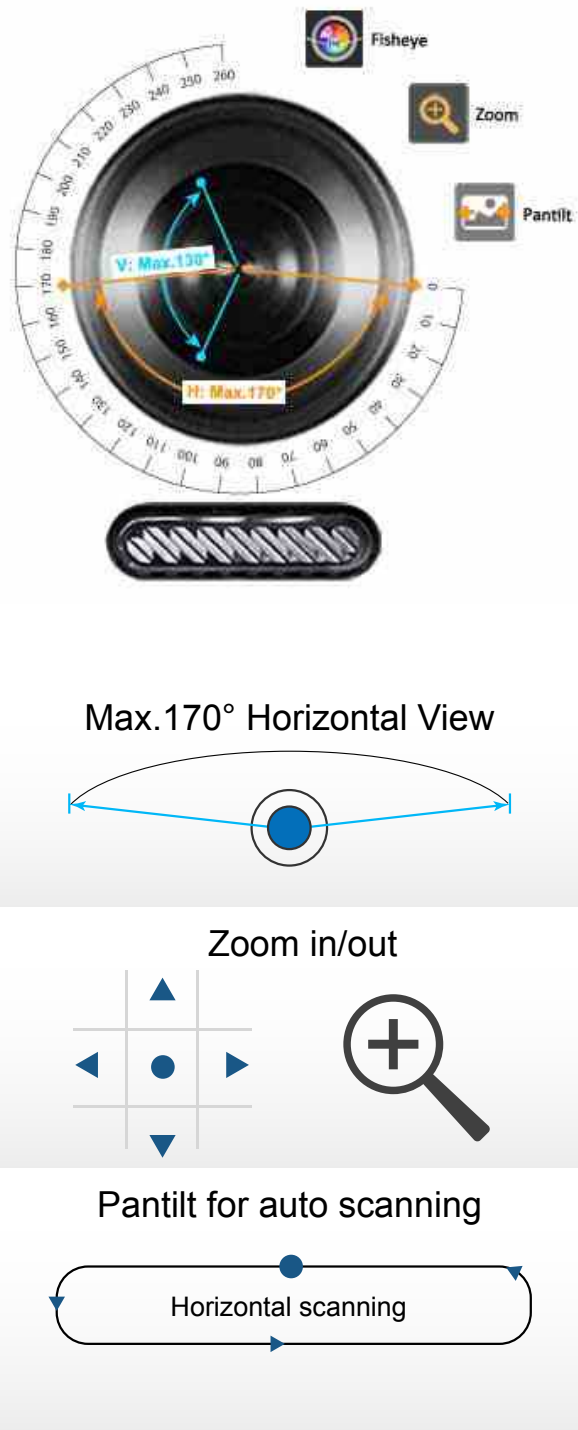
- BDU Bus amplifier for 2-Wire system**
 - Boots the video and audio signal for special occasions
 - Max 140M from door station to BDU
 - Max 140M from monitor to BDU
 - *RVW UTP 2X1.00mm Cable



FISHEYE CAMERA

The door stations support specific 170° wide angle fish-eye camera.

With the fish-eye camera, it allows to identify everyone at the entrance and see individuals up close.



CAMERA INTERFACE

Analogue CCTV surveillance



Camera switch during calling or conversation

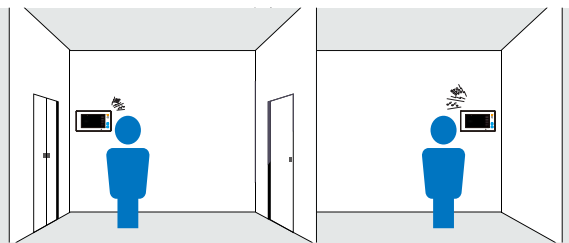


Image quad splitter via DT-QSW

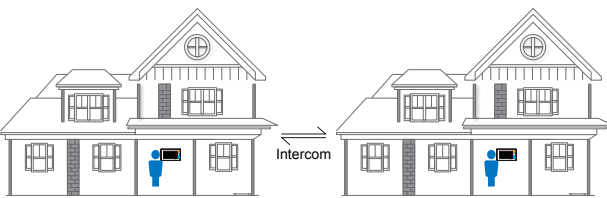


COMMUNICATION

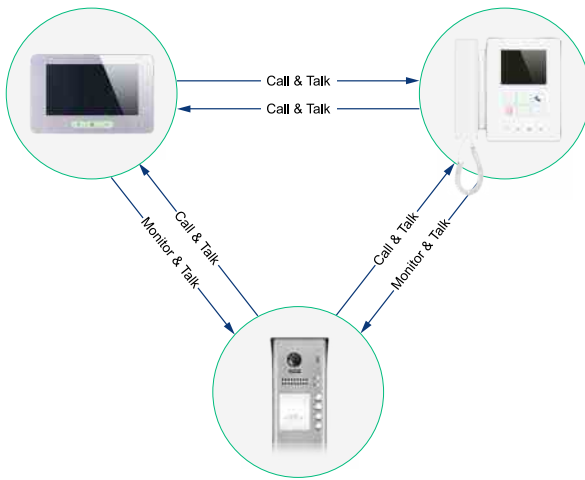
Intercom between neighbours



Inner call & Broadcast among family members



Communication among devices



Message with others(*)



RELAY ACTUATOR

DT-RLC controller module



DT-ACC converter



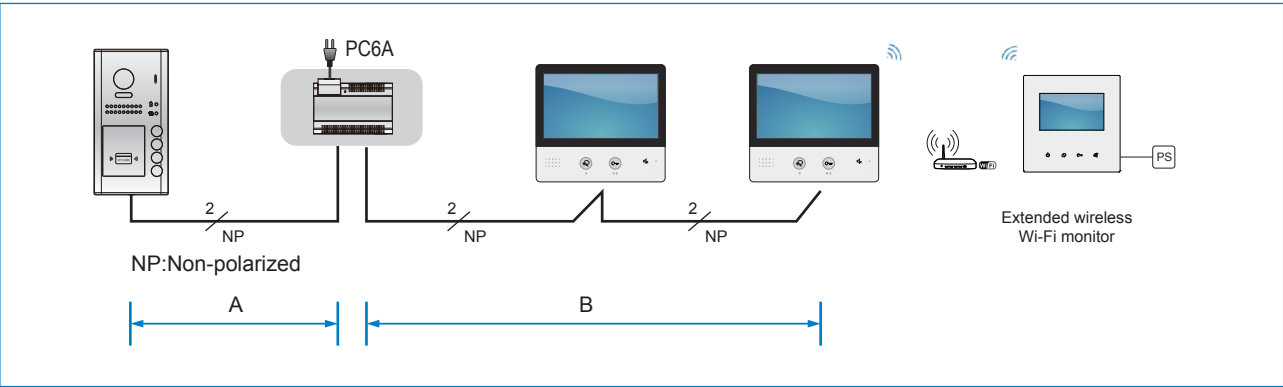
KEYPAD ACCESS PANEL



- Scramble keypad for safety access control
- Zinc alloy housing
- Embedded proximity access control
- IP55 waterproof on wall mounting
- Bus connection with 2 wire bus line
- Stand alone working

DIAGRAM AND DISTANCE IN VILLA APPLICATION

Connection Diagram

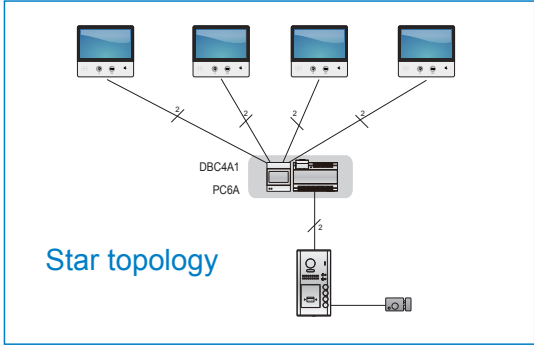
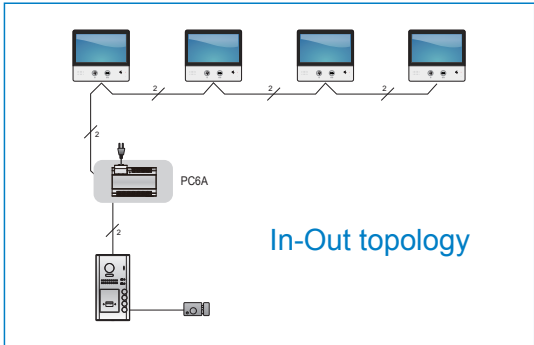


Cable and Distance

Cable	A(m)	B(m) ≤ 2 IM*	B(m) ≤16 IM*
CAT5 Cable (Combined)	40	80	—
Pair Cable (Parallel) 2X0.75 mm ²	30	50	—
Twisted Cable 2X0.75 mm ²	60	100	40
Twisted Cable 2X1.0 mm ²	80	120	60

*IM means Indoor monitor.
Bus amplifier could extend the distance or strengthen signals while cable is too thin, refer to DT-BDU Page 27

Extending Monitors(up to 16)



Extending Door/CCTV Cameras

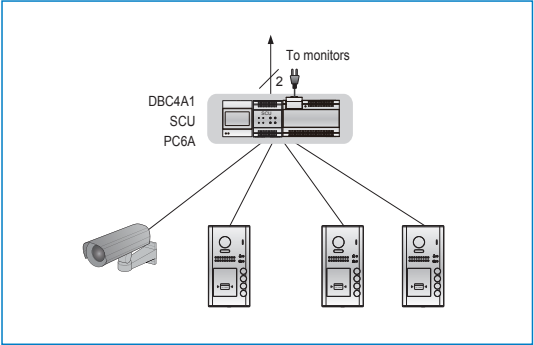
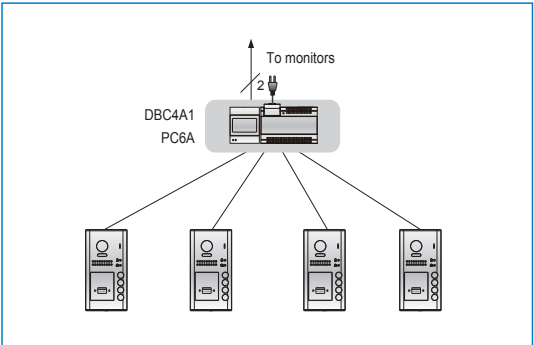
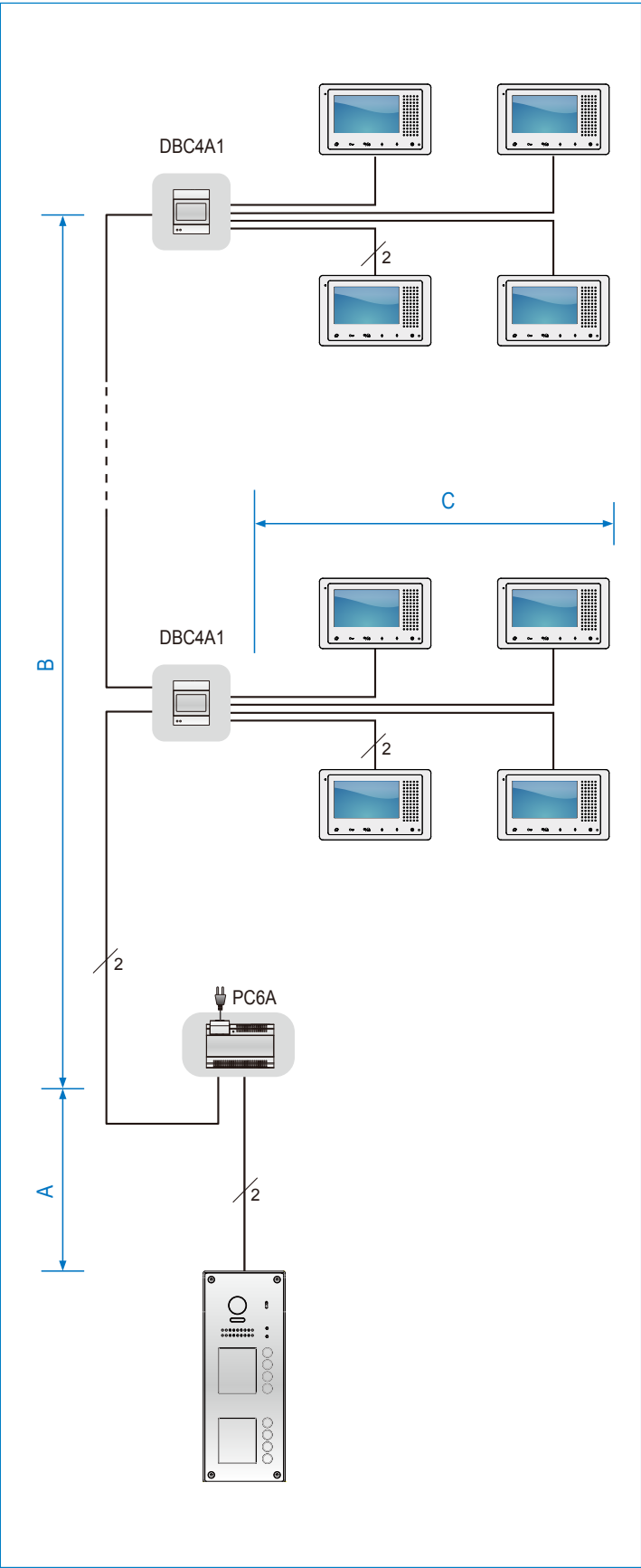


DIAGRAM AND DISTANCE IN APARTMENT APPLICATION

Connection Diagram



Cable and Distance

The maximum distance of the wiring is limited in the DT system. Using different cables may also effect the maximum distance of the system can reach.

When Monitor Quantity < 20









Cable Usage	A	B	C
Twisted cable 2x0.75mm ²	60	60	30
Twisted cable 2x1 mm ²	80	80	40

When Monitor Quantity ≥ 20

Cable Usage	A	B	C
Twisted cable 2x1 mm ²	70	30	20
Twisted cable 2x1.5 mm ²	70	50	30





Cables should be non-shielded! And the twisted cables are recommended, if non-twisted cable is used, the total distance will remain only to half.

PRODUCT LIST FOR INDOOR STATIONS

Model Features	DX471	DT47MG	DT37MG	DT17	DX439	DT43	DT433	DT243	DJ4A	DJ7A
										
Audio									•	•
Color video	•	•	•	•	•	•	•	•		
Surface mounted	•	•	•	•	•	•	•	•	•	•
TFT size	7 inch	7 inch	7 inch	7 inch	4.3 inch	4.3 inch	4.3 inch	4.3 inch		
Touch screen	•	•	•		•					
Mechanical button									•	•
Touch sensor	•	•	•	•	•	•	•	•		
Wi-Fi embeded	•				•					
Wireless extension	•				•					
Call divert	•	•/	•/	•/	•	•/	•/	•/		
Inner memory	•	•	•		•					
Memory via IPG				•*		•	•	•		
View scanning	•	•	•							
Light control	•	•	•		•	•	•	•		
Anti-disturb	•	•	•	•*	•*	•		•		
Message & SMS		•	•							
Intercom	•	•	•	•	•	•	•	•		
Inner intercom	•	•	•	•	•	•	•	•	•	•*
Broadcast		•	•							
Call guard unit	•	•	•	•*	•	•	•	•	•*	
Door bell	•	•	•	•	•	•		•	•	•
Ringer	•	•	•	•	•	•		•		
Multi-Languages	•	•	•	•*	•	•	•*	•		

* means customized, / means functional modules or gadges are needed.

PRODUCT LIST FOR OUTDOOR STATIONS

Model	DT601KP	DT601ID	DT603S	DT607	DT608	DMR21	DMR18S	DMR50
Features								
Audio				●		●/		
Color Video	●	●	●	●	●	●	●	●
Surface mounted	●	●		●	●		●	●
Flush mounted	●	●	●	●*		●	●	
Push button call	●	●	●	●	●	●		
Keypad call						●/	●	●
Extended Panel					●	●		
105° camera			●*	●*	●*		●	
Fisheye max.170° camera	●	●	●	●	●	●		●
Pan view	●	●	●*	●*	●*	●*		●*
Night view	●	●	●	●	●	●	●	●
Zoom in/out	●	●	●	●	●	●		●
Touch key						●/		●/
Voice synthesis						●	●	●
TFT display						●/	●	●
Keypad unlock	●				●*	●/	●	●
RFID unlock		●		●	●	●/	●	●
FW update via SD					●	●	●	●
Rainy cover	●	●		●	●		●	●
IP Rate	IP44	IP44	IP44	IP44	IP44	IP43	IP43	IP44
Panel materials	SSS-304	SSS-304	SSS-304	Zinc alloy	SSS-304	SSS-304	Aluminum	SSS-304
Max. nos of calls	1	1	2	4	32	128/	6368	6368

* means customized, / means functional modules or gadgets are needed.

PRODUCT LIST FOR ACCESSORIES

PRODUCT LIST



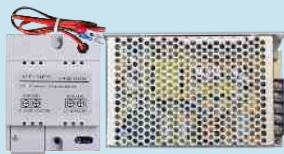
DT-AKP Scrambled Access Keypad Panel
Zinc alloy, scramble keys, proximity access, IP55 rate
Dimension:151(L)x95(W)x37(H)mm(with rainy cover)
145(L)x90(W)x23(H)mm(without rainy cover)



DJ7A Audio Phone
Aluminum front panel, handfree, door bell connection
Dimension:138(L)x90(W)x18(H)mm



DJ4A Handset Audio Phone
Aluminum front panel, door bell connection
Dimension:187(L)x97(W)x33(H)mm



PS5 Power supply +DPS power separator
PS5 Power supply,24V with 4.5A DC outputs
DPS power separator used with PS5



PC6A Power combo
Power supply unit, 26V with outputs DC 1.5A outputs
6 Din rail



PC4 Power combo
Power supply unit, 24V with DC 0.75A outputs, used for villa kit or local power supply
4 Din rail



DT-SCU Camera Control Unit
Max.2 inputs analogue cameras

DT-QSW Quad Camera Switcher
Max.4 inputs analogue cameras, image quad

DT-BDU Bus Amplifier
Bus signal repeater, used with PC6A

DT-IPG IP Gateway
IP converter, network devices, public memory, call transfer



DBC4A1 Video Distributor
4 channels distributor, star topology for multi door stations or indoor monitors

DT-RLC Relay Actuator
Used for light control or 2nd lock control



DBC2S Video Distributor
2 channels distributor, star topology for multi door stations or indoor monitors

DT-CCU Camera Interface Unit

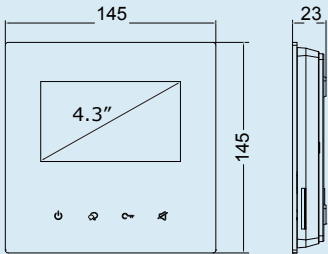
DT-ACC-S Weigand Converter
DIP addressing, max.4



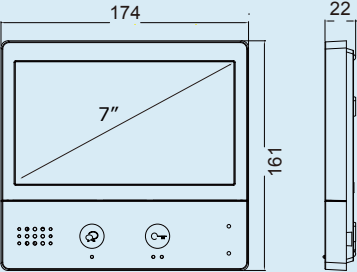
DB1 Desk top bracket
DB1-W white version DB1-B black version, for monitor use(except DT37, DT433)

APPENDIX.DIMENSIONS(unit:mm)

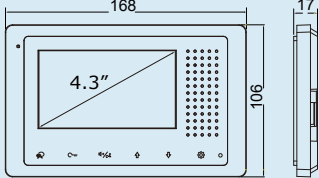
DX439



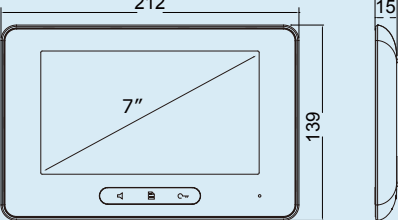
DX471



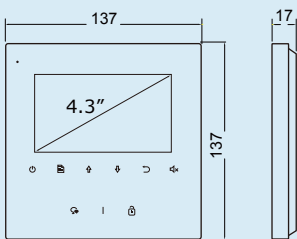
DT433



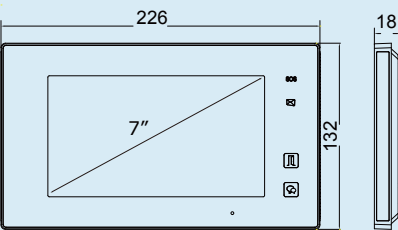
DT37MG



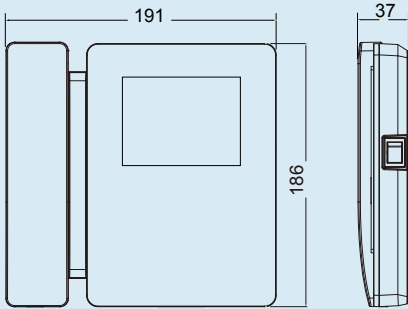
DT43



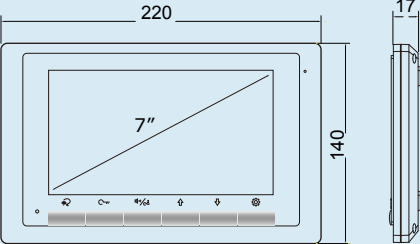
DT47MG



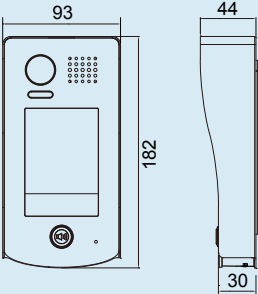
IP-G24/ DT243



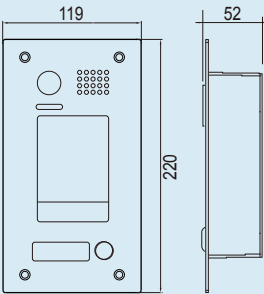
DT17



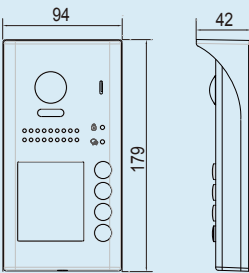
DT601 Surface



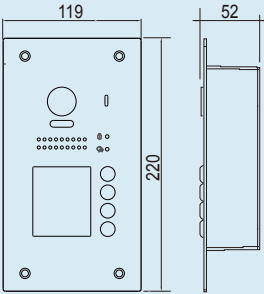
DT601 Flush



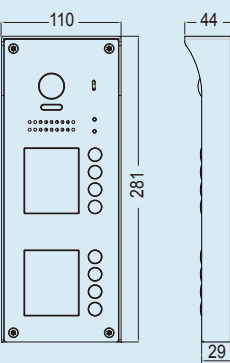
DT607 Surface



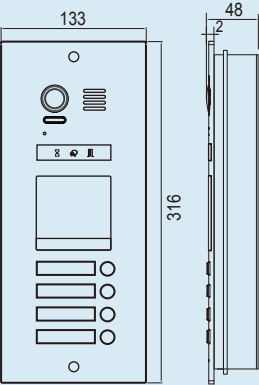
DT607 Flush



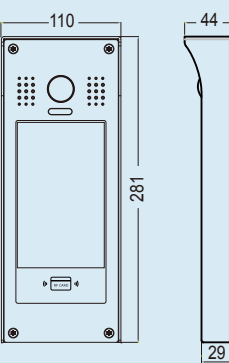
DT608



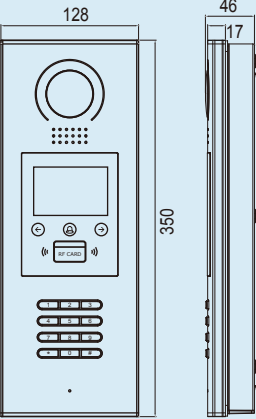
DMR21



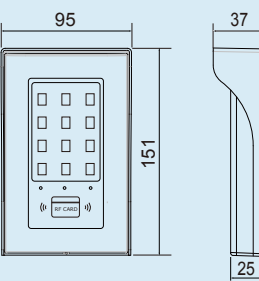
DMR50



DMR18S



DT-AKP



DT603S

