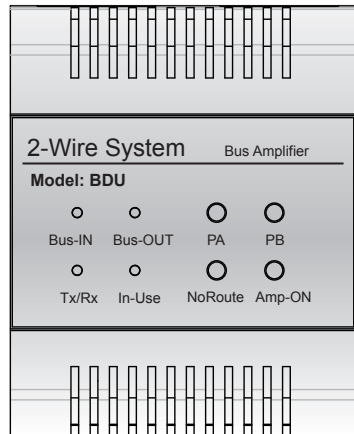


DPA-D2-BDU

amplifier

User Manual



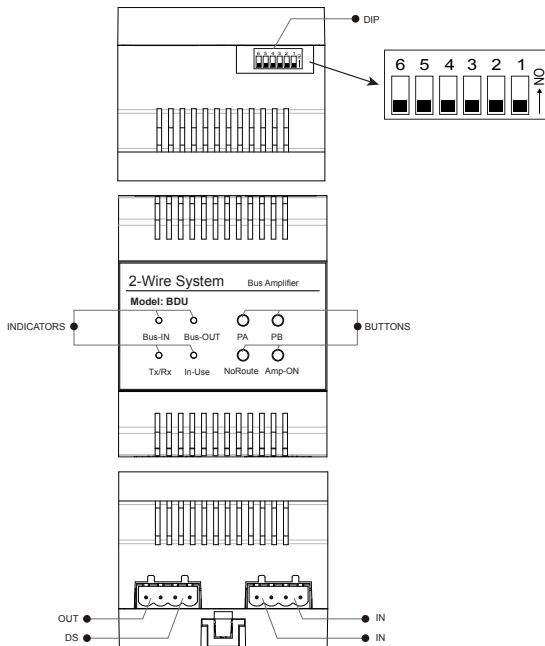
Please read this manual carefully before using the product you purchase, and keep it well for future use. We reserve the right to modify the specification in this manual at any time without notice.

1.About BDU Unit

Discription:

The BDU unit is bus amplifier unit and networking component designed for 2-wire system.

2. Terminal Description
















DIP Setting:

Bit-1 to Bit-2 are used to BDU working modes setting.

Bit-3 to Bit-5 are used to address settings.

Bit-6 is used to video Impedence match.

The detail settings of DIP are as follows:

Bit	Bit State	Description
Bit-1~Bit-2		Set to the Repeater mode.
		Set to the Router mode.
		Set to the Gateway mode.
		Reserved.
Bit-3~Bit-5		Set to the first BDU
		Set to the second BDU
		Set to the third BDU
		Set to the fourth BDU
		Set to the fifth BDU
		Set to the sixth BDU
		Set to the seventh BDU
		Set to the eighth BDU
Bit-6		Used to video Impedence match, set to ON.

INDICATORS:

1. Bus-IN: Always on when connect to net.
2. Bus-OUT: Always on when connect to monitor.
3. Tx/Rx: Flashes when communicating.
4. In-Use: Always off when in standby mode;
In working state, flashes when in automatic gain mode;
In working state, always on when in fixed gain mode.

BUTTONS:

1. PA: In working mode, each time you press "PA" button to reduce the video gear a grade (no longer reduce when the gear is 1). Not saved. Specific gears are indicated by 4 indicators.
2. PB: In working mode, each time you press "PB" button to increase the video gear a grade (no longer reduce when the gear is 6). Not saved. Specific gears are indicated by 4 indicators.
3. NoRoute: In working mode, press "NoRoute" button, Use 4 LEDs to indicate current gear gain;
In working mode, press and hold "NoRoute" button for 3 seconds to switch the working mode (In-User will indicate); If "PA" and "PB" button have been pressed, that is, have made the adjustment of video amplitude, the current adjusted gear of video gain will be saved;
4. Amp-ON: In standby mode, press "Amp-ON" button, it will be forced into working mode (audio/video power supply open).
In working mode, press "Amp-ON" button, it will be forced into standby mode (audio/video power supply closed).

Video Gain Gears

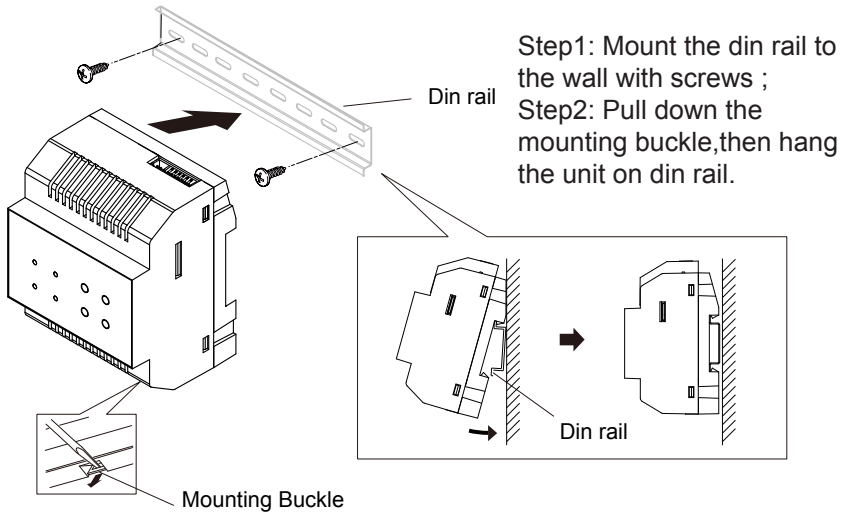
Gear gain indication: All indicators off, then use Bus-IN, Bus-OUT, Tx / Rx indicators to shown the current video gain gears.

	Bus-IN	Bus-OUT	Tx/Rx
Gear 1	●	○	○
Gear 2	○	●	○
Gear 3	●	●	○
Gear 4	○	○	●
Gear 5	●	○	●
Gear 6	○	●	●

* NOTE:

- :It shows that the indicator ON;
- :It shows that the indicator OFF.

3. Unit Mounting

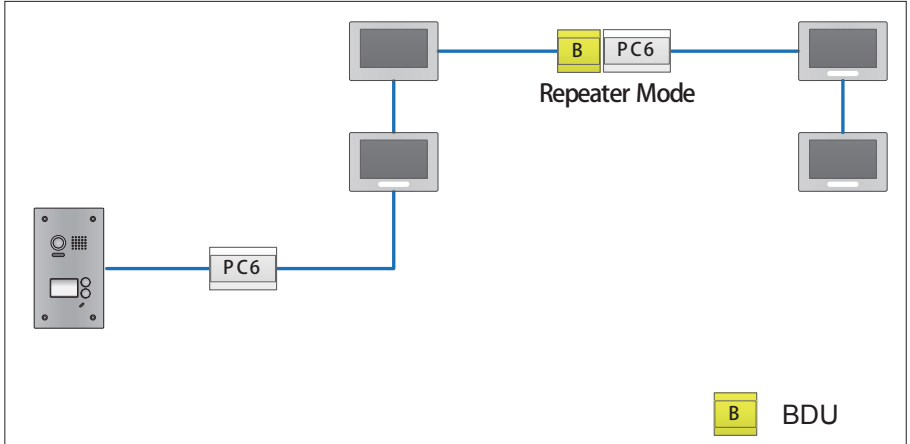


4. Working Mode Wiring.

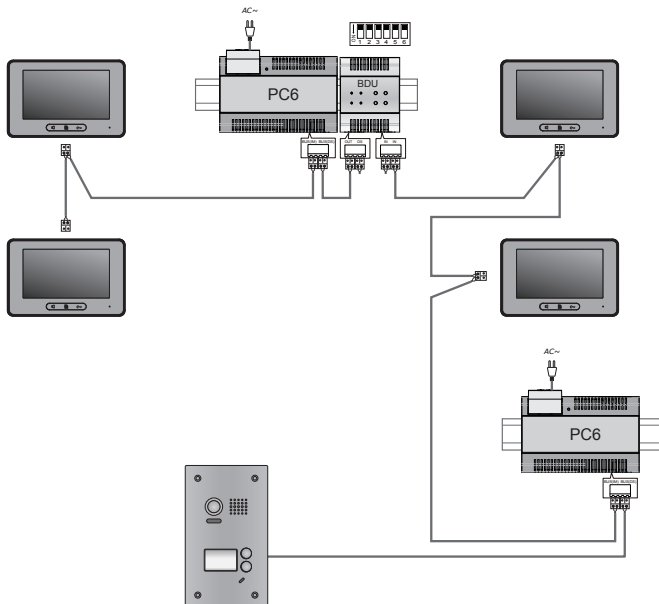
4.1 Repeater Mode (Line amplifier): BDU can extend the distance of DT system when works in repeater mode. As follows:

Max 140m from the first door station to BDU

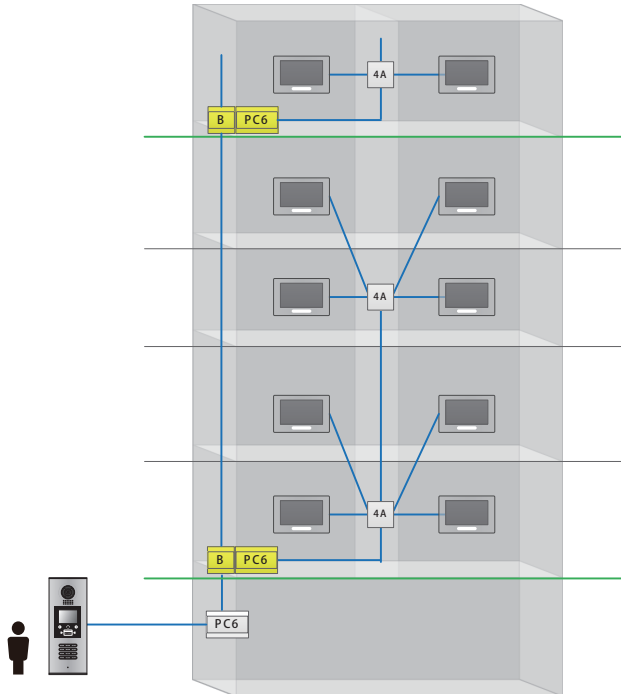
Max 140m from the last indoor monitor to BDU



Wiring diagram:

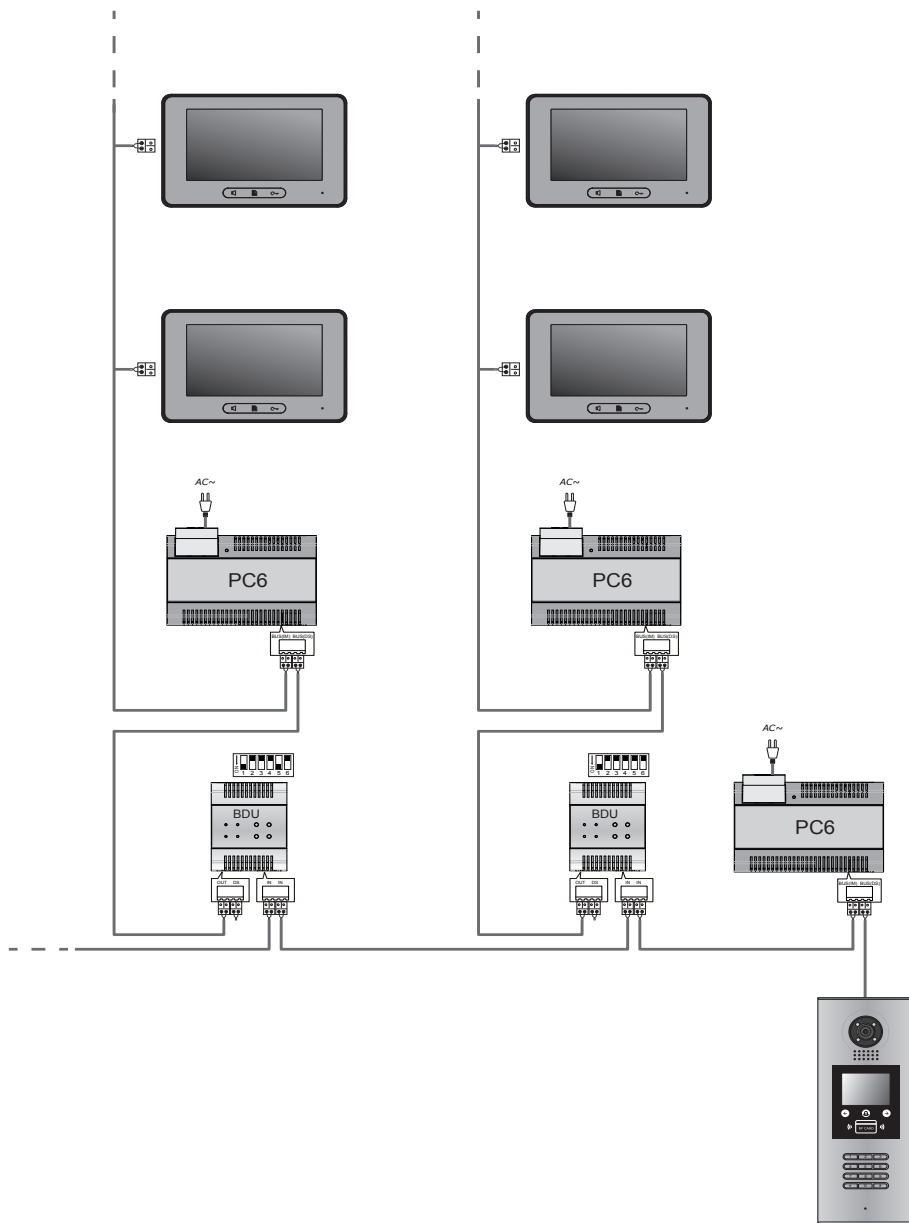


4.2 Router Mode: Use 8 BDUs at most in this mode.

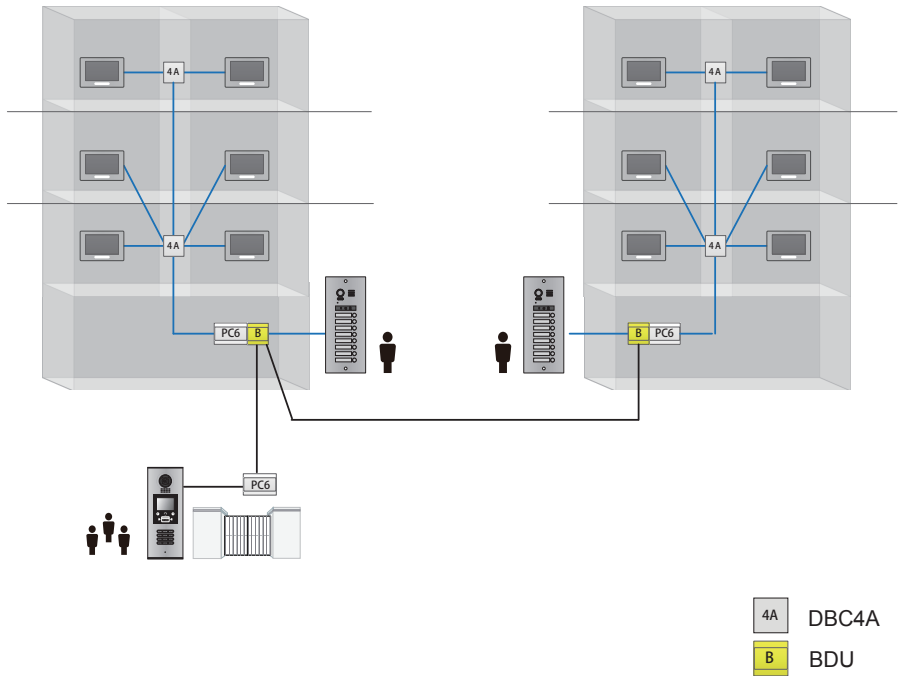


B BDU

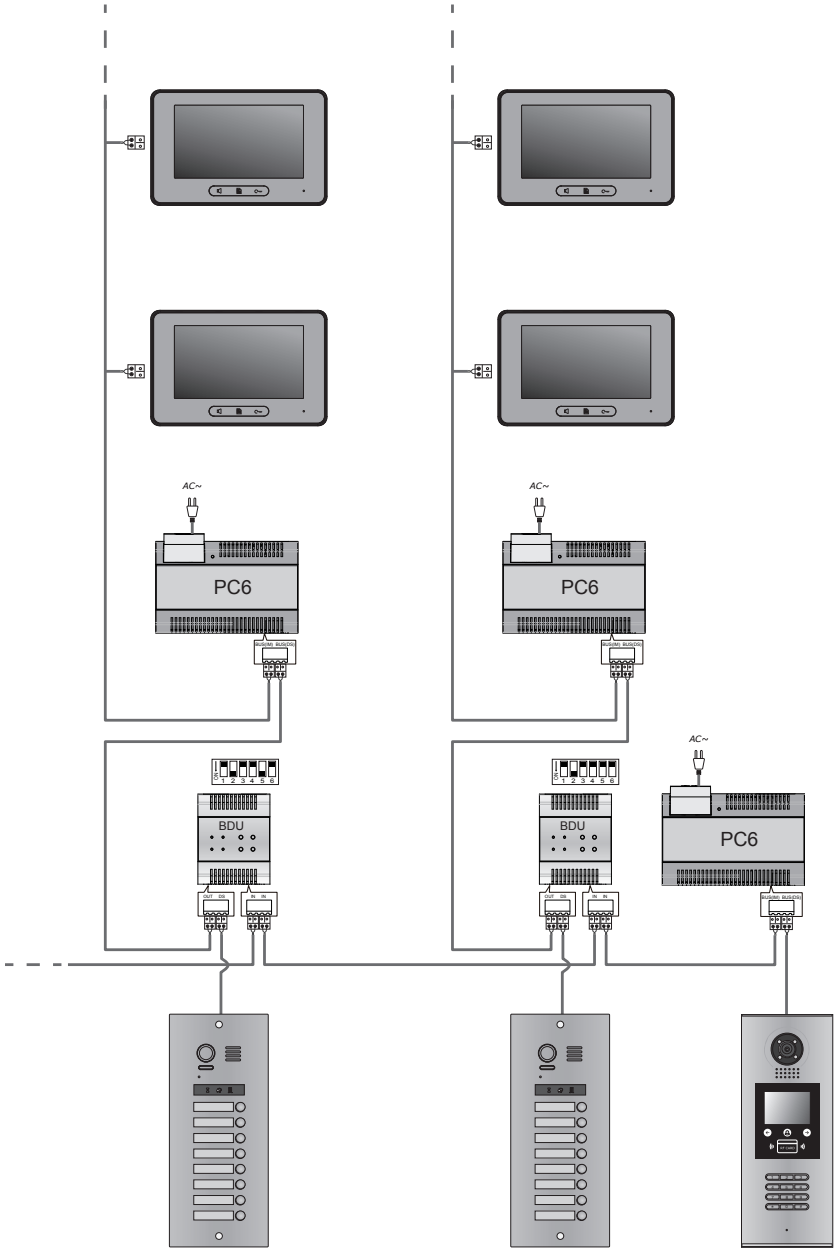
Wiring diagram:



4.3 Gateway Mode: : In this mode, the first door station can call all the monitors and can connect 7 BDUs at most.



Wiring diagram:



5. Specification

- Power Supply : DC24V;
- Power consumption: Standby 13.5mA; Working 156mA;
- Working Temperature: $-15^{\circ}\text{C}\sim+55^{\circ}\text{C}$;
- Wiring: 2 wire, non-polarity;
- Dimension: 90(H) \times 72(W) \times 60(D)mm.

The design and specifications can be changed without notice to the user. Right to interpret and copyright of this manual are preserved.
