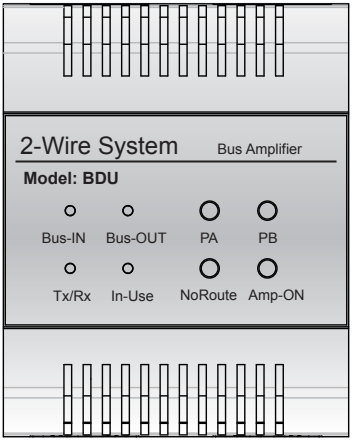
DT-BDU
Interface

Amplifier/Repeater/Gateway

User Manual



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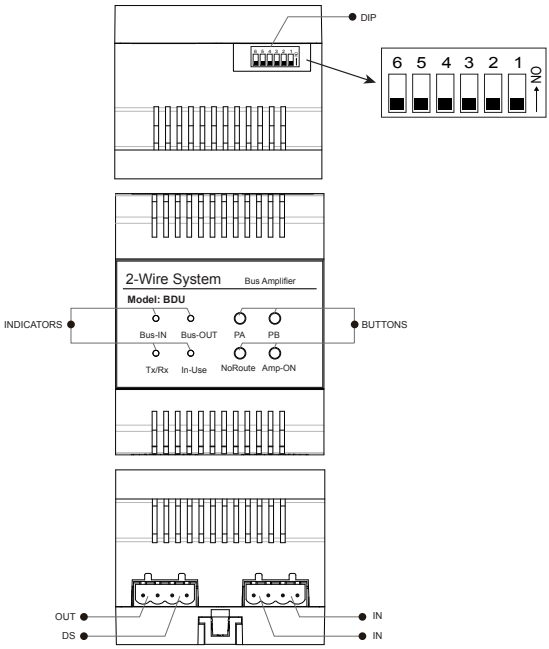
1.About DT-BDU Interface

DT-BDU Interface is a bus amplifier Interface for 2-wire series House systems. It enables long distances connections (up to 300m) and connection of large number of video monitors in House systems.
Works as a Router in Apartment System and enables to connect up to 32 x video monitors to one BDU. Or as Gateway, and enables to connect multiple Door Stations in Apartment Buildings

2. Terminal Description



DIP switches Settings:

DIP1 and DIP2 to set a BDU working mode

DIP3 - DIP5 to set address

DIP6 - video Impendence match

Tables of settings

DIP	DIP State	Description
DIP1~DIP2		Set as Repeater
		Set as Router
		Set as Gateway
		Reserved
DIP3~DIP5		Set as the first BDU
		Set as the second BDU
		Set as the third BDU
		Set as the fourth BDU
		Set as the fifth BDU
		Set as the sixth BDU
		Set as the seventh BDU
		Set as the eighth BDU
DIP6		Video Impendence match, set to ON

INDICATORS:

1.Bus-IN: Always On when connected

2.Bus-OUT: Always On when monitors connected

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, steady 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-Use 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).

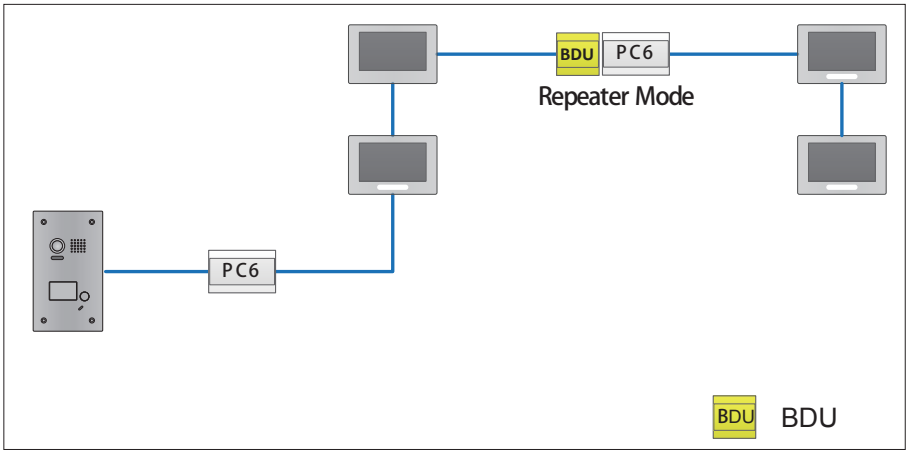
In working mode, press "Amp-ON" button, it will be forced into standby mode (audio/video power supply closed).

4. BDU as Repeater in House system connected daisy chain

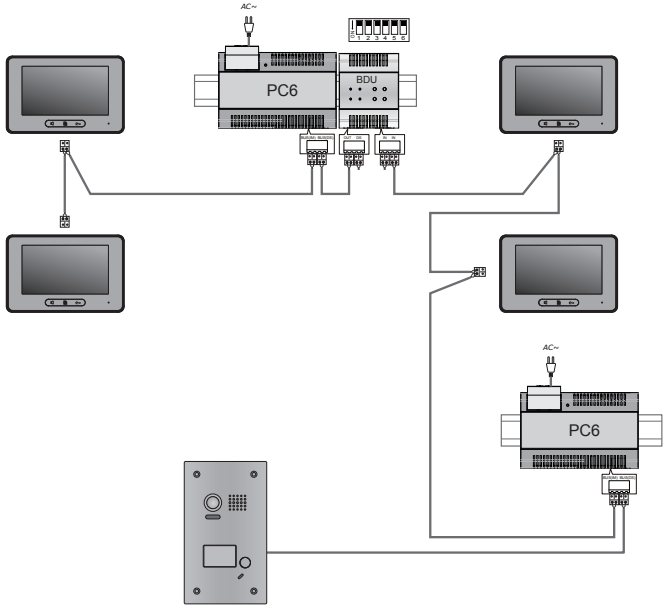
4.1 Repeater Mode (Line amplifier):BDU can extend the distance of DT system when works in repeater mode. As follows:

Max 140m from the first door station to BDU

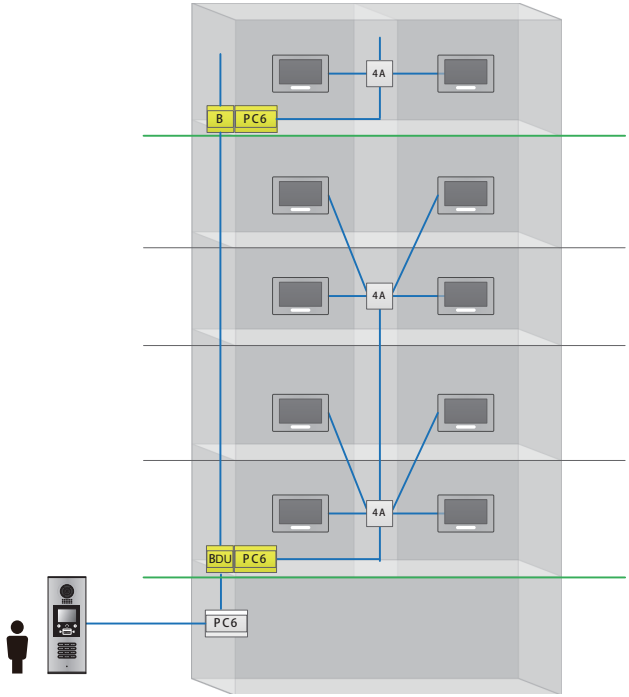
Max 140m from the last indoor monitor to BDU



Wiring diagram:

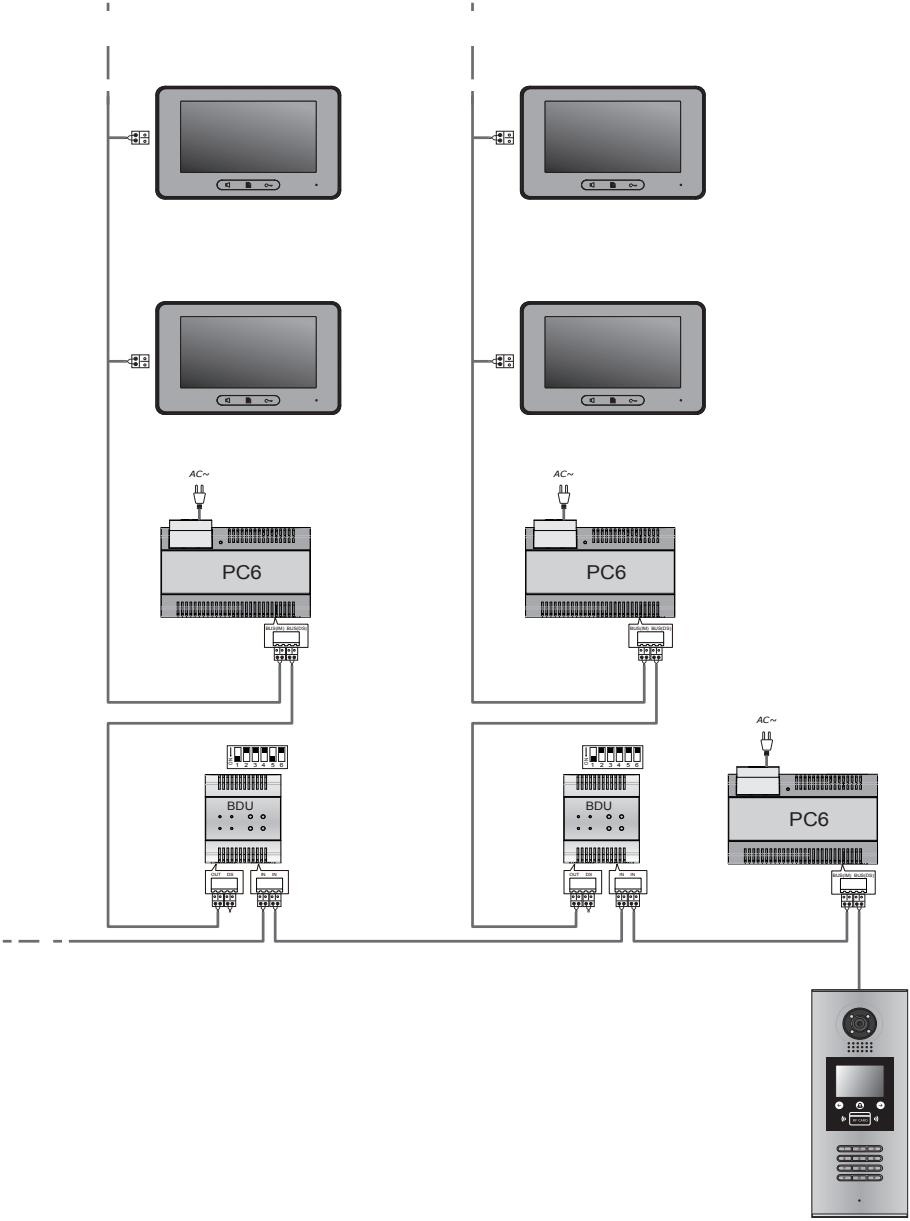


4.2 Router Mode. Maximum 8 BDUs could be connected

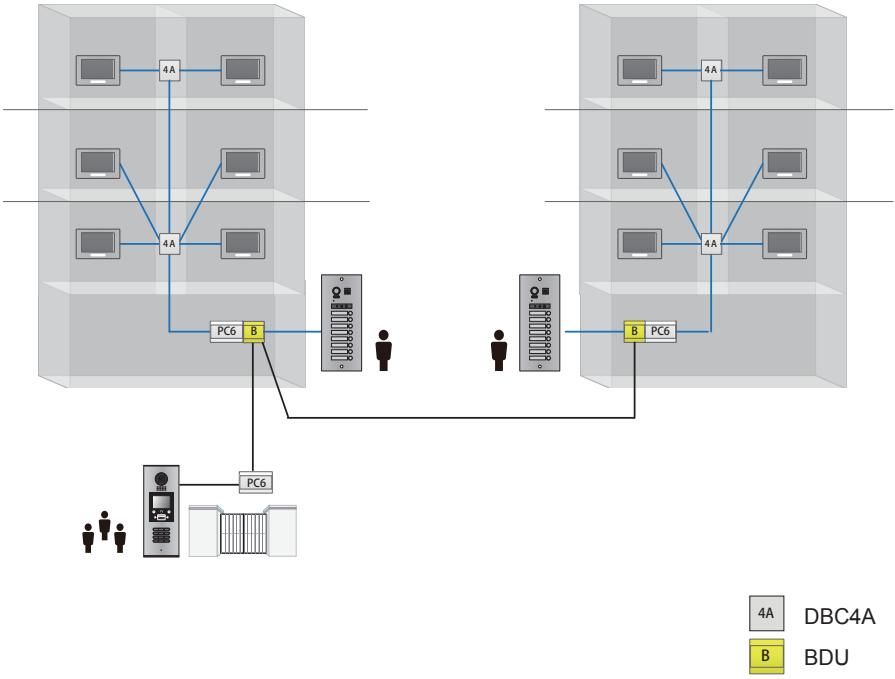


B BDU

Wiring diagram:



4.3 Gateway Mode: Common door station can call all monitors
(maximum 7 x BDU, 224 Video monitors)



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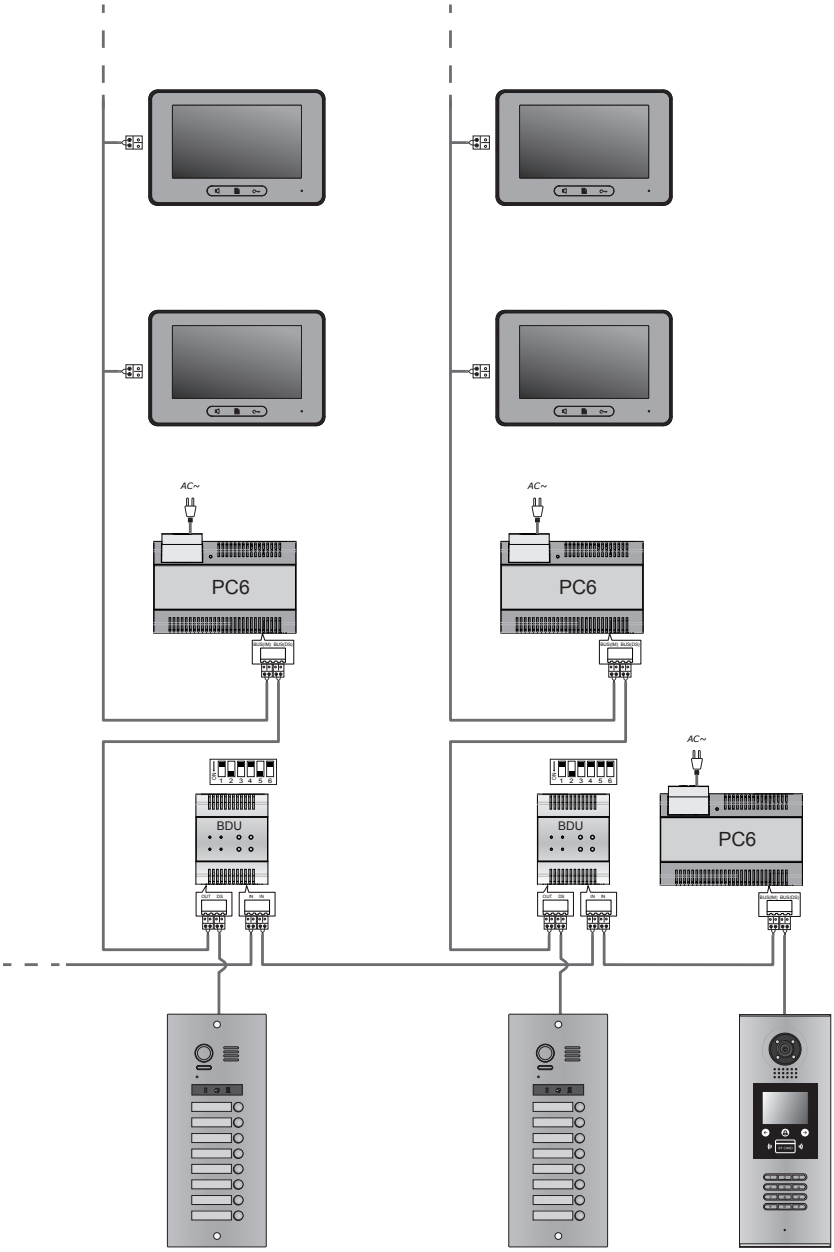
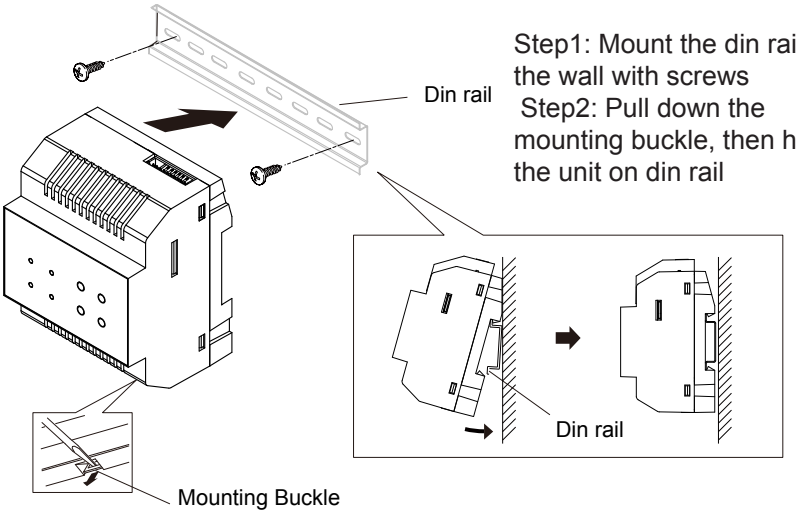


Mounting



5. Specification

- Power: DC24V
- Power consumption: Standby 13.5mA; Working 156mA
- Working Temperature: -15^0C~$+55^0$C
- Wiring: 2 wire,no-polarity
- Dimensions: 90(H)×72(W)×60(D)mm

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