



Home Theatre DVI CAT5 Extender

Model: HDB200K (HDB200T + HDB200R)

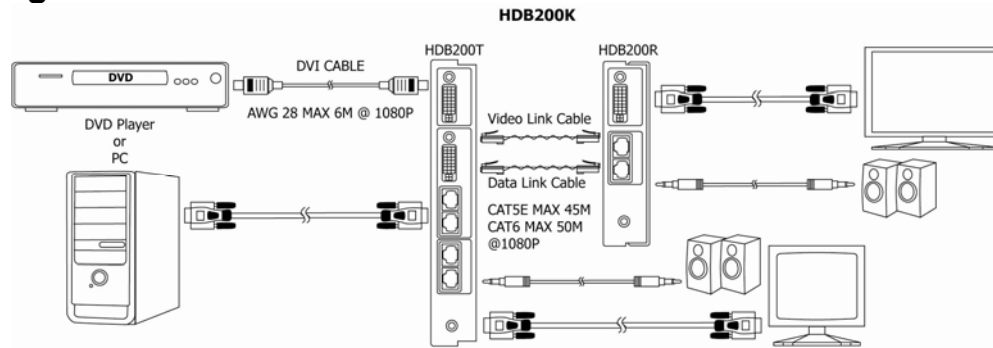


Features:

- Extends DVI signal over two CAT5E/6 cables
- Transmission range up to 164ft / 50m at High Resolution 1920 x 1200
- Support analog stereo audio: 20Hz~20Khz
- Dual output: 1 x DVI loop output for local, plus 1 x CAT5 RJ45 output for remote side
- Built-in equalization and signal boost function
- High quality digital video over CAT5 without any signal loss
- Support DDC, EDID and hot plug detection
- Use CAT5 cable for DDC and control signals
- HDCP 1.1 compliant



Wiring Diagram:



Specification:

| Model Number | HDB200T | HDB200R |
|---------------------------|---|--------------------|
| Video Amplifier Bandwidth | 1.65 GHz | |
| Resolution | Up to 1920 x 1200 | |
| Input Video Signal | 1.2V p-p | |
| Input DDC Signal | 5V p-p (TTL) | |
| Link Cable Distance | CAT5E 148ft / 45m , CAT6 164ft / 50m @ 1920 x 1200 | |
| DVI Cable Distance | 28 AWG DVI Cables 6M @ 1920 x 1200 | |
| DVI Connector | DVI-D 29 pin | DVI-D 29 pin |
| Stereo Audio Connector | Stereo Jack x 2 | Stereo Jack x 1 |
| Link Connector | RJ-45 Shielded x 4 | RJ-45 Shielded x 2 |
| Power Supply | 5V DC 1200mA Regulated (External) | |
| Power Consumption | 750mA (Max) | 400mA (Max) |
| Temperature | Operation: 0°~55°C, Storage: -20°~85°C, Humidity: Up to 95% | |
| Dimensions W x H x D mm | 145 x 96 x 37 | 225 x 166 x 40 |
| Weight g | 300 | 800 |

FCC

CE

C-TICK

UTP = Unshielded Twisted Pair

DIP Switch Setting:

- 1 (Input Equalization Boost Setting)
- ↑ ON (Cable Length > 25M)
- ↓ OFF (Cable Length < 25M)

Recommended 「↑ ON」 .

Power / Status LED:

[OFF] No Power.

[Blue] Detect Video Clock Signal.

[Red] No Video Clock Signal Detect.

[Purple] No DATA Link Detect.

Caution:

The cabling must away from any equipment with electromagnetic wave, i.e.: microwave, radio equipment, high voltage.

Troubleshooting:

No picture display:

LED status:

[OFF] Check Power Adapter.

[Blue] Check Video Link Cable Connection, Length & Quality
Check Video & Data Cable Connection
Check DIP Switch Setting
Check HDMI Cable Connection

[Red] Check Video & Data Cable Connection
Check HDCP Compatibility
Check HDMI Cable Connection

[Purple] Check DATA Link Cable Connection
Check HDMI Cable Connection

Picture with noise:

White noise (signal is too weak)

Check Video Link Cable Connection, Length & Quality
Check DIP Switch Setting

Other color noise (signal is too weak or too strong)

Check Video Link Cable Connection, Length & Quality
Check DIP Switch Setting

Picture disappear (signal is too weak or with interference)

Check Video Link Cable Connection, Length & Quality
Check DIP Switch Setting
Move cabling away from EMI interference source

Cable:

For Video Link cable, use high quality CAT5E UTP/STP or CAT6 UTP cable.
It is recommended to use CAT6 cable if the transmission range is over 40 meters.

For Data Link cable, use CAT5E UTP/STP or CAT6 UTP cable.
The data link is not a high speed signal transmission, so regular CAT5E UTP cable is sufficient.

RJ45 pin Layout:

Video Link (TIA/EIA-568-B)

| | |
|-----------------|---------|
| 1. Orange-white | DATA2 + |
| 2. Orange | DATA2 - |
| 3. Green-white | DATA0 + |
| 4. Blue | DATA1 + |
| 5. Blue-white | DATA1 - |
| 6. Green | DATA0 - |
| 7. Brown-white | CLOCK + |
| 8. Brown | CLOCK - |

Data Link (TIA/EIA-568-B)

| | |
|-----------------|-----------------|
| 1. Orange-white | DDC SCL |
| 2. Orange | Hot Plug Detect |
| 3. Green-white | DDC SDA |
| 4. Blue | Reserve |
| 5. Blue-white | Reserve |
| 6. Green | GND |
| 7. Brown-white | Reserve |
| 8. Brown | Reserve |