

IP BOLD HD - VoIP video door entry phone station

The SIP based IP BOLD audio and video door intercom is used for an easy way of communication both for companies and households. IP BOLD combines timeless alluminium design, modern technology, easy installation and maintenance. IP BOLD offers two relay contacts, PoE, full duplex audio, a wide angle HD colour camera and a optional numerical dialling keypad. You can use optional audio or video softphone iBell softphone apps for Apple (iOS), Android or Windows.

Basic features:

- full duplex audio with a suppression of acoustic shock
- a phone book for up to 999 users (e.g. for keypad use)
- each user can have up to 5 phone numbers assigned for progressive or concurrent/simultaneous calling
- E-mail notification with an image attachment in case the user is out of reach
- 10 time plans with a weekly program
- 2+2 relay contacts, two physical for connecting two indepent electrical locks and two virtual relay contacts for relays synchronization or remote control of IP relays
- the system of relays synchronization enables combining any type of mode (consecutive door opening, two impluses, etc.)
- 10 edittable codes for each relay, also each user can have his own door entry code for each relay contact
- COSW code-relay HW for safe activation of locks supported
- Optional door sensor contacts
- SNMP monitoring available
- Real time clock from NTP server or SIP server
- Advanced options for setup of call buttons' functions, setup of level of illumination, call duration limitation, mode of dialling and codelock keypad, etc.
- Setup of audio signalling including user loaded audio signalling or audio messages
- Email client
- Setup of video including video RTSP streaming
- Language support
- Easy uploading and restoration of configuration
- Non-collision firmware upgrade
- System logs can be stored to an optional MicroSD card
- Storing images to an optional MicroSD card
- WEB based setup interface via a standard web browser
- PoE (Class 0 - 12,95W) or 12V power supply
- ETH – 10/100Mb with 10BaseT and 100BaseTx
- Linux OS, system start in 3 seconds
- Video transmission to the web browser – JPEG, video transmission to VoIP phones – H.263, H.264
- SIP connection either in P2P or PBX (SIP server) mode, easily set via web based interface



Models available:

| | |
|------------------------|--|
| 230101 IP BOLD T1 | audio with one call button |
| 230102 IP BOLD T2 | audio with two call buttons |
| 230104 IP BOLD T4 | audio with four call buttons |
| 230201-HD IP BOLD T1C | video with one call button, HD colour camera |
| 230202-HD IP BOLD T2C | video with two call buttons, HD colour camera |
| 230204-HD IP BOLD T4C | video with four call buttons, HD colour camera |
| 230301 IP BOLD TK1 | audio with one call button and keypad |
| 230304 IP BOLD TK4 | audio with four call buttons and keypad |
| 230401-HD IP BOLD TK1C | video with one call button, keypad, HD c. camera |
| 230404-HD IP BOLD TK4C | video with four call buttons, keypad, HD c. camera |

Applications:

The IP BOLD doorphone is an audio and video intercom which is connected to the computer LAN network via a UTP Ethernet cable. It is designed to communicate over SIP VoIP protocol either in peer-to-peer mode (P2P) or in a SIP server mode (SIP client).

The IP BOLD doorphone can communicate with all devices using the SIP standard. For example SIP video phones, PC computers with Windows OS. It can be linked to iOS smartphones and tablets (iPhone/iPad), Android smartphones and tablets. You can use the Windows iBell office video softphone application, or you can use iBell home SIP softphone apps.

IP BOLD is suitable for all types of installations including office complexes, schools, hospitals, restaurants, hotels, apartment houses, etc.

Relays switches:

Relays switches play an important role in the doorphone system. You can control electrical door locks, gates, door-latches or lighting.

The relays can be controlled via HTTP protocol (via keys of VoIP phone), by pressing a combination of call buttons of the doorphone or by entering an access code via the doorphone's keypad.

IP BOLD has two relay switches. The first relay is a switching contact NC COM NO, the second one is a closing contact COM NO.

Electrical parameters:

| Parameter | Value | Conditions |
|-----------------------------------|---|------------|
| Communication interface | Ethernet 10Base-T, 100Base-Tx | |
| VoIP protocol | SIP | |
| Audio | G.711u, G.711a, G.722, G.726, GSM, optional G.729 | |
| Video | series JPEG,MJPG,stream H.263,H.264, RTSP | |
| Bandwidth | 300Hz – 3400 Hz | |
| Power supply voltage - adapter | 12VDC ± 2V , 12VAC± 1V | |
| - or PoE | IEEE802.3af Class 0 -12W | |
| Max. power consumption | 300mA | 12VDC |
| Max. closing voltage of the relay | 48V | at I < 1A |
| Max. closing current of the relay | 2A | at U < 30V |

Mechanical dimensions (surface mount):

| Type of IP BOLD doorphone | Size HxWxD [mm] |
|---------------------------|-----------------|
| IP BOLD-Txx | 204 x 135 x 20 |
| IP BOLD-TKxx | 279 x 135 x 20 |

Camera:

| | |
|-------------------------------|-------------------|
| Video call resolution | HD, 1280x720 px |
| Lens angle | 170°W, 110°H |
| Number of frames | 1 – 15 frames/sec |
| Connection of internal camera | USB 2.0 |
| Illumination (night vision) | 4 white LEDs |

