datavideo ITC-300

Datavideo ITC-300 Digital Intercom System User Manual

Model: ITC-300

1. INTRODUCTION

The Datavideo ITC-300 is an 8-user digital wired intercom system designed for professional video production environments. It provides clear, reliable communication between camera operators, directors, and other crew members, enhancing coordination and efficiency during live broadcasts, studio productions, and events. This manual provides detailed instructions for setting up, operating, and maintaining your ITC-300 system.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the ITC-300 system. Failure to do so may result in injury or damage to the equipment.

- Do not expose the unit to rain or moisture.
- Do not block ventilation openings.
- Use only attachments/accessories specified by the manufacturer.
- Disconnect the power cord during lightning storms or when unused for long periods.
- Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- ITC-300 Main Unit
- Headsets (quantity may vary based on package)
- Belt Packs (quantity may vary based on package)

- Tally Lights (quantity may vary based on package)
- RJ45 Cables
- Gooseneck Microphone
- USB Light
- 12V DC Power Adapter
- User Manual (this document)

4. PRODUCT OVERVIEW

Figure 4.1: Datavideo ITC-300 Digital Intercom System with main unit, gooseneck microphone, USB light, headset, and belt pack.

The ITC-300 system consists of a central rack-mountable unit and individual belt packs for each user. It supports up to 8 users and features bi-directional communication, external audio input/output, and integrated tally light control.

4.1 Front Panel Features

- **POWER Button:** On/Off switch for the unit.
- **HEADSET/HEADPHONE Jacks:** Connect a headset or headphones for monitoring.
- **MIC Input:** For connecting the gooseneck microphone.
- **MODE Switch:** Toggles between Dynamic and Condenser microphone modes.
- **ALL Button:** Enables communication with all connected users.
- **HOLD Button:** Latches the microphone open for continuous talk.
- **MUTE Button:** Mutes the microphone output.
- **Party Line Buttons (1-8):** Individual buttons to communicate with specific users or groups.

- **VOLUME Knob:** Adjusts the overall listening volume.
- **USB Port:** For connecting the USB light.

4.2 Rear Panel Features

Figure 4.2: Rear panel connections of the ITC-300 main unit.

- **RJ45 Ports (1-8):** Connect individual belt packs using standard Ethernet cables.
- **ETHERNET Port:** For future expansion or network connectivity (check specific model features).
- **TALLY A/B INPUT:** Connects to a video switcher for tally light functionality.
- **AUDIO IN (RCA):** Connect external audio sources for monitoring or broadcasting to users.
- **AUDIO OUT (RCA):** Outputs the intercom audio mix to an external recording device or PA system.
- **DC IN 12V:** Power input for the included 12V DC adapter.
- **GROUND Terminal:** For grounding the unit if necessary.

5. SETUP

5.1 Connecting Belt Packs and Headsets

1. Connect one end of an RJ45 cable to an available RJ45 port (1-8) on the rear panel of the ITC-300 main unit.
2. Connect the other end of the RJ45 cable to the corresponding port on a belt pack.
3. Plug a headset into the headset jack on the belt pack. Ensure the headset microphone is positioned correctly for clear audio capture.
4. Repeat for all desired users.

5.2 Connecting Tally Lights

If using tally lights, connect the tally light cable from the belt pack to the tally light unit. Then, connect the TALLY A or TALLY B input on the rear of the ITC-300 to your video switcher's tally output. Refer to your video switcher's manual for specific tally output configurations.

5.3 Powering On

1. Connect the 12V DC power adapter to the "DC IN 12V" port on the rear panel of the ITC-300.
2. Plug the power adapter into a suitable power outlet.
3. Press the "POWER" button on the front panel. The power indicator light will illuminate.

6. OPERATING INSTRUCTIONS

6.1 Basic Communication

- **Speaking to All Users:** Press the "ALL" button on the front panel of the main unit or the corresponding button on your belt pack. Release to stop speaking. For continuous talk, press the

"HOLD" button.

- **Speaking to Individual Users/Groups:** Press the numbered button (1-8) corresponding to the desired user or group on the main unit or belt pack.
- **Adjusting Volume:** Use the "VOLUME" knob on the main unit or the volume control on your belt pack to adjust listening levels.
- **Muting Microphone:** Press the "MUTE" button on the main unit or belt pack to temporarily disable your microphone.

6.2 Tally Light Functionality

When connected to a compatible video switcher, the tally lights will illuminate to indicate camera status:

- **Red Light:** Indicates the camera is live (on-air).
- **Green Light:** Indicates the camera is in preview mode.

6.3 External Audio Integration

- **Audio Input:** Connect an external audio source (e.g., program audio, music) to the "AUDIO IN" RCA jacks on the rear panel. This audio will be mixed into the intercom system for all users to hear.
- **Audio Output:** The "AUDIO OUT" RCA jacks provide a mixed output of all intercom audio. This can be connected to a recording device, PA system, or broadcast mixer for external monitoring or recording.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Management:** Ensure all cables are neatly organized and not under strain to prevent damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to the main unit.	Power cable disconnected; power outlet faulty; unit off.	Check power cable connection; try a different outlet; ensure POWER button is pressed.
No audio from headset/belt pack.	Headset not plugged in; volume too low; RJ45 cable loose/damaged.	Ensure headset is fully plugged in; increase volume; check/replace RJ45 cable.
Microphone not working.	Microphone muted; incorrect MIC MODE; faulty microphone.	Check MUTE button; ensure MODE switch matches microphone type (Dynamic/Condenser); try another microphone if available.
Tally lights not functioning.	Tally cable disconnected; incorrect switcher setup; tally output disabled.	Verify tally cable connections; check video switcher tally settings; ensure tally output is enabled on the switcher.

9. SPECIFICATIONS

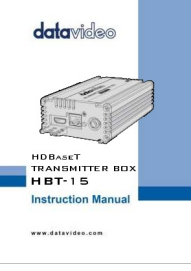| Feature	Detail
Brand	datavideo
Model Number	ITC-300
Product Dimensions	20.5 x 14.7 x 8.4 inches
Item Weight	19.9 Pounds
Color	black
Connector Type	RJ45
Cable Type	Ethernet
Compatible Devices	Camera
Manufacturer	Datavideo
Date First Available	January 27, 2020

10. WARRANTY AND SUPPORT

Datavideo products are covered by a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Datavideo website. For technical support, troubleshooting assistance, or service inquiries, please contact Datavideo customer support through their official channels.

Note: Warranty terms may vary by region and product. Keep your proof of purchase for warranty claims.

Related Documents - ITC-300

[Datavideo MS-3200 HD 12-Channel Mobile Video Studio Instruction Manual](#)
Comprehensive instruction manual for the Datavideo MS-3200 HD/SD mobile video studio. This portable production unit integrates an SE-3200 switcher, TLM-170VM monitor, NVS-35 streaming server, HDR-90 recorder, ITC-300 talkback system, and PD-2A power distribution. Learn about features, installation, operation, and support.

[Datavideo CB-22H, CB-23H, CB-24 All-in-One Cable Instruction Manual](#)

Comprehensive instruction manual for Datavideo's CB-22H (30M), CB-23H (50M), and CB-24 (100M) all-in-one broadcast cables, covering specifications, setup, warranty, and support.

[Datavideo HS-2200 HD/SD 6-Channel Mobile Production Switcher Operation Manual](#)

This manual provides comprehensive instructions for operating the Datavideo HS-2200, a portable 6-channel HD/SD mobile production switcher. Learn about its features, connections, control panel, and applications.

[Datavideo HBT-15 HDBaseT Transmitter Box Instruction Manual](#)

Comprehensive instruction manual for the Datavideo HBT-15 HDBaseT Transmitter Box, detailing its features, system diagram, connections, RS-232/RS-422 pinouts, dimensions, specifications, and service support. Learn how to integrate this professional video transmission device into your setup.

[Datavideo KMU-300 4K Multi-Channel Streaming Switcher Instruction Manual](#)

Comprehensive instruction manual for the Datavideo KMU-300, a 4K multi-channel streaming switcher. Covers setup, connections, operations, video streaming, recording, and troubleshooting.

[Datavideo HDR-60 HD/SD Digital Video Recorder Instruction Manual](#)

Comprehensive instruction manual for the Datavideo HDR-60 HD/SD Digital Video Recorder, covering setup, operation, recording, playback, system settings, and troubleshooting.