

INTERCOM SYSTEM

ITC-100

Instruction Manual

Table of Contents

TA	ABLE OF CONTENTS	2
FC	CC COMPLIANCE STATEMENT	4
w	ARNINGS AND PRECAUTIONS	4
w	/ARRANTY	5
	STANDARD WARRANTY	
DI	ISPOSAL	6
1.	PRODUCT OVERVIEW	7
	FEATURES	
2.	CONNECTIONS AND CONTROLS	9
	FRONT PANEL REAR PANEL	
3.	ITC-100SL BELT PACK	12
4.	ADDITIONAL CABLE PURCHASE	14
	5 PIN XLR EXTENSION CABLE (CB-3 / CB-4)	
5.	EXAMPLE SYSTEM SETUP	15
	SETTING UP THE SE-500 WITH THE ITC-100	
	SETTING UP THE SE-650 WITH THE ITC-100	
	SETTING UP THE SE-700 WITH THE ITC-100	18
	SETTING UP THE SE-2200 WITH THE ITC-100	
	CETTING UP THE CE 2000 MITH THE ITC 100	20
	SETTING UP THE SE-2850 WITH THE ITC-100	20
6.		
6.		22

7.	SPECIFICATIONS	23
SER\	/ICE & SUPPORT	24

Disclaimer of Product & Services

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.



Warnings and Precautions

- 1. Read all of these warnings and save them for later reference.
- 2. Follow all warnings and instructions marked on this unit.
- 3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use this unit in or near water.
- 5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
- 6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
- This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
- 8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
- If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord rating.
- Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
- 11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
- 12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.
- 13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:
 - a. When the power cord is damaged or frayed;
 - b. When liquid has spilled into the unit;
 - c. When the product has been exposed to rain or water;
 - d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit

- and may often require extensive work by a qualified technician to restore the unit to normal operation;
- e. When the product has been dropped or the cabinet has been damaged;
- When the product exhibits a distinct change in performance, indicating a need for service.

Warranty

Standard Warranty

- Datavideo equipment is guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- The product warranty period beings on the purchase date. If the purchase date is unknown, the product warranty period begins on the thirtieth day after shipment from a Datavideo office.
- All non-Datavideo manufactured products (product without Datavideo logo) have only
 one year warranty from the date of purchase.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered under warranty.
- Viruses and malware infections on the computer systems are not covered under warranty.
- Any errors that are caused by unauthorized third-party software installations, which are not required by our computer systems, are not covered under warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.
- All accessories including headphones, cables, batteries, metal parts, housing, cable reel and consumable parts are not covered under warranty.
- Warranty only valid in the country or region of purchase.
- Your statutory rights are not affected.

Three Year Warranty

 All Datavideo products purchased after July 1st, 2017 are qualified for a free two years extension to the standard warranty, providing the product is registered with Datavideo within 30 days of purchase.



- Certain parts with limited lifetime expectancy such as LCD panels, DVD drives, Hard Drive, Solid State Drive, SD Card, USB Thumb Drive, Lighting, Camera module, PCle Card are covered for 1 year.
- The three-year warranty must be registered on Datavideo's official website or with your local Datavideo office or one of its authorized distributors within 30 days of purchase.

Disposal



For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more

information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



CE Marking is the symbol as shown on the left of this page. The letters "CE" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

1. Product Overview

The ITC-100 is a 19" Rack Mount 8 Channel Intercom / Talkback System. It incorporates tally indicators for each channel and individual channel call buttons. The **ALL** button enables the feature that allows the director to communicate with all channels.

The ITC-100 is designed for communication purpose in a live mixing environment and allows easy bi-directional communication between the director and other members of the crew.

It is a perfect communication system for Datavideo SE-500, SE-500HD, SE-650, SE-700, SE-2200 and SE-2850 video mixers.

Features

Front Panel

- Combined XLR and 1/4' (6.3 mm) microphone input
- Dynamic / Condenser microphone selection switch
- 1/4' (6.3mm) Jack for Headphones without microphone
- 3.5mm Jack for Headset with microphone
- Speaker with volume control knob
- Channel buttons 1 8 for communicating with individual channels.
- ALL button to activate communication with all channels.
- Base Unit MUTE button

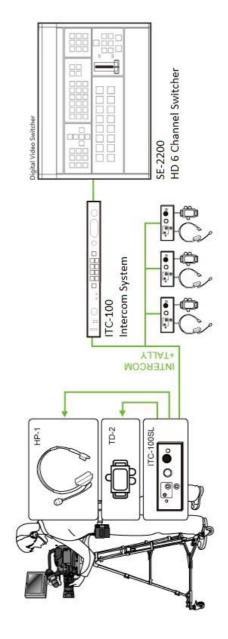
Rear Panel

- 8 x 5pin XLR connectors for cable connection to ITC-100SL Belt Packs.
 Additional cable purchase: CB-3 is a 20m 5pin XLR Male to XLR Female cable which allows cable connection to the ITC-100SL of up to 200m.
- 2 x 15pin D Sub Tally Input sockets for tally communication from the switcher to tally light box.

ITC-100SL Belt Pack for Crew members

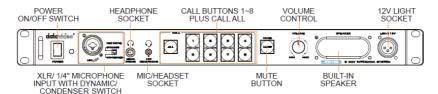
- Call Button for sending paging signal to Base Unit
- Press and hold the Talk button to communicate with the director on the Base Unit end.
- Headset volume control knob
- Bi-Color Tally LED on Belt Pack Unit
- TD-2/3 Camera Tally Indicator connected to the Belt Pack

System Diagram



2. Connections and Controls

Front Panel





On/Off Switch

Powers the ITC-100 On / Off. Red LED indicates that unit is switched on.



XLR Microphone Socket

Combined XLR / ¼" (6.3mm) Microphone Input Jack for either a Condenser or Dynamic Gooseneck Microphone.

- XLR supports Condenser Microphones
- ¼" (6.3mm) Jack supports Dynamic Gooseneck Microphone (Supplied).



Headphone Socket

4" (6.3mm) Stereo Headphone Socket for conventional headphones. Plugging in headphones will disable the built-in speaker.



Microphone / Headset Socket

3.5mm Stereo Socket for Microphone Headset.



Note: Plugging in a Microphone Headset will disable the built-in speaker and the XLR Microphone Input.



ALL Button

Opens communication with all channels.

Note: All channels will hear communication from the operator, or from any other channels using the ITC-100SL Belt Pack's TALK button.



Channel Buttons 1~8

Opens communication with individual channels. More than 1 channel can be active at any given time, active channels are illuminated red.

All active channels will hear communication from the operator or from any other active channels. The buttons will also indicate if any channel is paging, the paging channel will flash in orange until the page is answered.



Mute Button

Mutes all communication from the base station or any other channels.

NOTE: If any channel uses the CALL button, the paging tone will still sound even when the MUTE button is active.



Volume Control

Controls the volume of the built-in speaker or audio output to the headphone or MIC headset (whichever is connected).



Built-In Speaker

Sounds audible alert when a channel is paging and provides audio during talkback conversations.

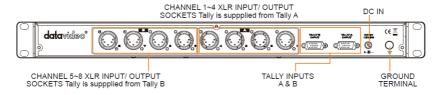
Note: Speaker is disabled when headphone or MIC headset is connected to the ITC-100.



12V Light Socket

12V light socket for powering the connected gooseneck light (supplied).

Rear Panel





Channel Input/Output XLR Ports

Each of the 8 channels has an XLR connector that carries bi-directional signals between the ITC-100 and the ITC-100SL. Power, tally and bi-directional audio are all carried though the same 5 PIN XLR to XLR cable (supplied).



Tally Inputs A&B

Tally Inputs A & B provide direct connection to the Datavideo switcher. They supply bi-color tally information to the ITC-100SL; RED indicates Live and GREEN indicates Cued.

Tally Input A carries bicolor tally information of Channels 1 ~ 4 and Tally Input B carries bicolor tally information of Channels 5 ~ 8.





DC Power Input 12V 8W

DC in socket connects the supplied 12V / 8W PSU. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.



Ground Terminal

When connecting this unit to any other component, make sure that it is properly grounded by connecting this terminal to an appropriate point. When connecting, use the socket and be sure to use wire with a cross-sectional area of at least 1.0 mm².

3. ITC-100SL Belt Pack

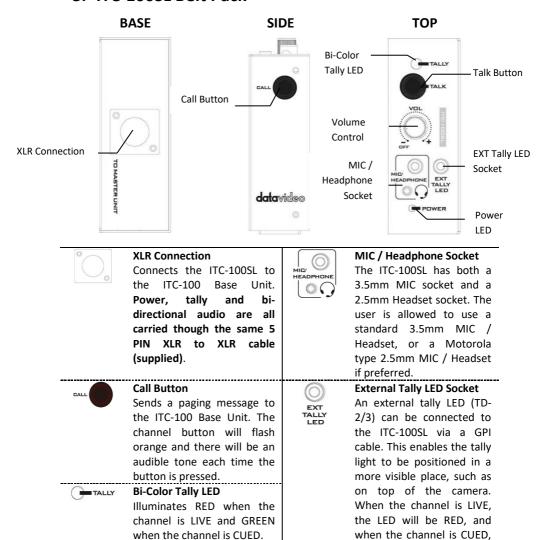
Talk Button
Opens

active channels.

uр

communication with the ITC-

100 Base Unit, and any other



NOTE: The Tally LED on the ITC-100SL will continue to operate as normal even after a TD-2/3 has been connected.

the LFD will be GREEN.

talkback



Volume Control

Adjusts the volume of the headphones.

POWER

Power LED

The Power LED will be turned ON when the channel is active. The channel can be activated by pressing the individual channel button 1-8, or the ALL button.

NOTE: The tally LED will continue to work even when the Power LED is not ON, and the channel is not active.

4. Additional Cable Purchase

5 PIN XLR Extension Cable (CB-3 / CB-4)

To extend the reach of the ITC-100SL Belt Pack from the ITC-100 Base Unit, Datavideo provides pre-manufactured XLR cables such as CB-3 and CB-4. The table below lists the respective lengths of the CB-3 and CB-4.

	Length
CB-3	20 m
CB-4	50 m

Please contact your local dealer for price and availability of the CB-3 and CB-4 cables.

ITC-100 XLR Cable PIN Assignments

PIN	Cable	Signal Assignment
1	Red	Tally Red
2	Black	Talk & Call
3	Shield	Common Ground
4	Green	+12V DC power to ITC-100SL
5	White	Tally Green

Note: 5 PIN XLR Cable is a straight through cable (PIN-to-PIN).

3.5mm Mini-Plug to 4-Pin XLR Male Adapter Cable

For connecting an XLR4 professional headset to the 3.5mm socket on the ITC-100SL Belt Pack, Datavideo provides a 3.5mm Mini-Plug to 4-Pin XLR Male Cable which is available through separate purchase.

Note: Please contact your dealer or local Datavideo office for more information on the *3.5mm Mini-Plug to 4-Pin XLR Male Microphone Cable*.

If the headset comes with an electret condenser microphone, then the tip of PIN 2 of the XLR connector should connect a 1uF capacitor for AC coupling.

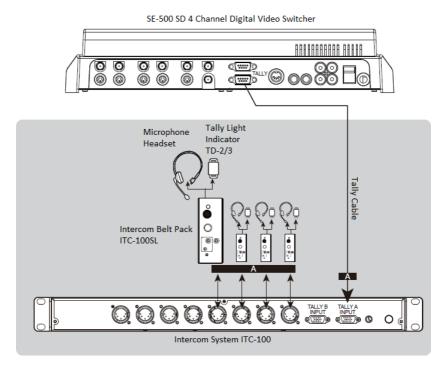
3.5mm Mini-Plug	XLR Male Signal Assignment	
	Connector	
Tip	PIN 2	Dynamic or Electret Condenser Microphone
Ring	PIN 4	Earphone (Impedance range of 8-100Ω,
		ideally 30-40 Ω)
Ground/Sleeve	PIN 1 & 3	Common Ground

5. Example System Setup

Setting up the SE-500 with the ITC-100

The SE-500 is a four channel video switcher. To set up the SE-500 with the ITC-100, you will need to purchase a 15pin Female D Sub to 15pin Male D Sub Tally Cable (Part No.: G07690150006) from Datavideo.

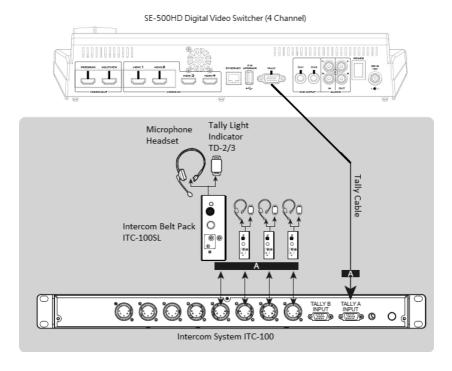
By using the tally cable, the Tally Output of the SE-500 can be connected to either the ITC-100 Tally Input A or Tally Input B. The Tally Input A carries bicolor tally information of Channels 1-4 (denoted by A on the rear panel of the ITC-100) and the Tally Input B carries bicolor tally information of Channels 5-8 (denoted by B on the rear panel of the ITC-100).



Setting up the SE-500HD with the ITC-100

The SE-500HD is a four channel video switcher. To set up the SE-500HD with the ITC-100, you will need to purchase a 15pin Female D Sub to 15pin Male D Sub Tally Cable (Part No.: G07690150006) from Datavideo.

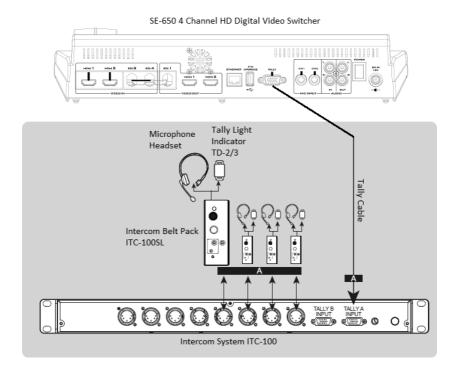
By using the tally cable, the Tally Output of the SE-500HD can be connected to either the ITC-100 Tally Input A or Tally Input B. The Tally Input A carries bicolor tally information of Channels 1-4 (denoted by A on the rear panel of the ITC-100) and the Tally Input B carries bicolor tally information of Channels 5-8 (denoted by B on the rear panel of the ITC-100).



Setting up the SE-650 with the ITC-100

The SE-650 is a four channel video switcher. To set up the SE-650 with the ITC-100, you will need to purchase a 15pin Female D Sub to 15pin Male D Sub Tally Cable (Part No.: G07690150006) from Datavideo.

By using the tally cable, the Tally Output of the SE-650 can be connected to either the ITC-100 Tally Input A or Tally Input B. The Tally Input A carries bicolor tally information of Channels 1-4 (denoted by A on the rear panel of the ITC-100) and the Tally Input B carries bicolor tally information of Channels 5-8 (denoted by B on the rear panel of the ITC-100).

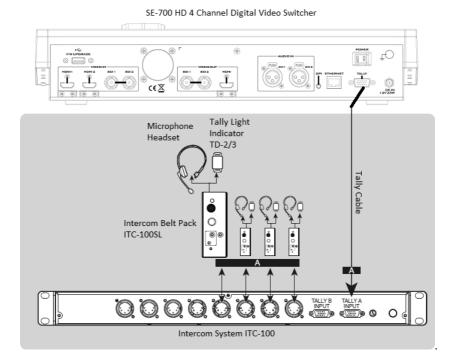


17

Setting up the SE-700 with the ITC-100

The SE-700 is a four channel video switcher. To set up the SE-700 with the ITC-100, you will need to purchase a 15pin Female D Sub to 15pin Male D Sub Tally Cable (Part No.: G07690150025) from Datavideo.

By using the tally cable, the Tally Output of the SE-700 can be connected to either the ITC-100 Tally Input A or Tally Input B. The Tally Input A carries bicolor tally information of Channels 1-4 (denoted by A on the rear panel of the ITC-100) and the Tally Input B carries bicolor tally information of Channels 5-8 (denoted by B on the rear panel of the ITC-100).

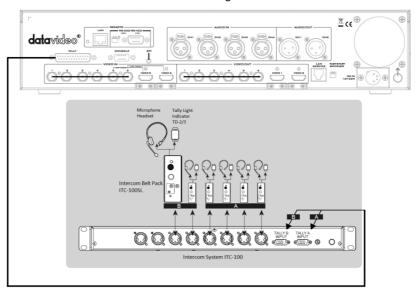


18

Setting up the SE-2200 with the ITC-100

The SE-2200 is a six channel video switcher. To set up the SE-2200 with the ITC-100, you will need to purchase a CB-28 25pin Male D Sub to 4 x 15pin Male D Sub Tally Cable (Part No.: G07690250002) from Datavideo.

By using the tally cable, the Tally Output of the SE-2200 can be connected to the ITC-100 Tally Input A **AND** Tally Input B. The Tally Input A carries bicolor tally information of Channels 1-4 (denoted by A on the rear panel of the ITC-100) and the Tally Input B carries bicolor tally information of Channels 5-8 (denoted by B on the rear panel of the ITC-100).

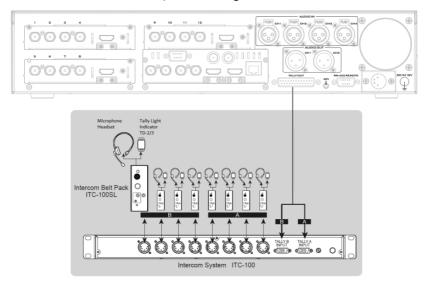


SE-2200 HD 6 Channel Digital Video Switcher

Setting up the SE-2850 with the ITC-100

The SE-2850 is an 8/12 channel video switcher. To set up the SE-2850 with the ITC-100, you will need to purchase a CB-28 25pin Male D Sub to 4 x 15pin Male D Sub Tally Cable (Part No.: G07690250002) from Datavideo.

By using the tally cable, the Tally Output of the SE-2850 can be connected to the ITC-100 Tally Input A **AND** Tally Input B. The Tally Input A carries bicolor tally information of Channels 1-4 (denoted by A on the rear panel of the ITC-100) and the Tally Input B carries bicolor tally information of Channels 5-8 (denoted by B on the rear panel of the ITC-100).



SE-2850 HD 8/12 Channel Digital Video Switcher

Tally Cables for Connecting Datavideo Switchers to ITC-100			
Part No.	Model	Cable Introduction	Purpose
G07690250002	CB-28	DB25 Pin(Male) to DB15 Pin(Male)*4 Length:1M	Tally communication between SE- 2200/2850/3200 and ITC- 100 (1 to 2)
G07692150202	CB-42	DB15 Pin(Male) -DB15 Pin (Female) Length:1.2M	Tally communication between SE-500HD/SE- 650/ and ITC-100 (1 to 1)
G07690150006	N/A	DB15 Pin(Female)-DB15 Pin(Male) CABLE Length:80cm (Full Length)	Tally communication between SE-500HD/SE- 650/ and ITC-100 (1 to 1)
G07690150025	CB-59	CB-59 DB15 Pin(Female)-2*DB15 Pin(Male) CABLE Length:70cm	Tally communication between SE-1200MU and ITC-100 (1 to 2)

6. ITC-100 Tally Input

If you are using the ITC-100 with a Datavideo product, you do not need to worry about tally information, as it has already been customized for the ITC-100.

However, if you are using the ITC-100 with equipment of other manufacturers, please see the following tables for PIN definitions of the ITC-100 Tally A and B inputs.

Contact closure between a tally PIN and the ground will turn ON the Tally LED. For example, on Tally Input A, if the connection between PIN 1 and PIN 4 is closed, RED Tally LED on Channel 1 will be turned ON; if the connection between PIN 13 and PIN 4 is closed, GREEN Tally LED on Channel 3 will be turned ON.

Tally A Input PIN Definition

Tally A Input carries Tally Information of Channels 1-4. The following table shows the PIN definitions for each channel.

Video Channel	Red LED LIVE (On Air)	Green LED CUED (Next)
1	PIN 1	PIN 3
2	PIN 6	PIN 8
3	PIN 11	PIN 13
4	PIN 5	PIN 15

PINs 4/9/14 are ground pins.

Tally B Input PIN Definition

Tally B Input carries Tally Information of Channels 5-8. The following table shows the PIN definitions for each channel:

Video Channel	Red LED LIVE (On Air)	Green LED CUED (Next)
5	PIN 1	PIN 3
6	PIN 6	PIN 8
7	PIN 11	PIN 13
8	PIN 5	PIN 15

PINs 4/9/14 are ground pins.

7. Specifications

ITC-100 Base Unit		Specifications	
Input / Output Tally		2 x 15 Pin DSub Sockets for Tally A and B	
	MIC / Headset	3.5 mm Stereo Jack Socket for Headphone /	
		Microphone combination.	
		Headset Impedance 8-600 Ohms 100 mW (min).	
	Headphone	1/4" (6.3mm) Stereo Headphone Socket	
		Headset Impedance 8-600 Ohms 100 mW (min).	
Light Socket		3 PIN XLR Connector	
(DC 12 V)		PIN 2: 12V	
	,	PIN 3: GND	
		Light Power Consumption: 12 V / 100 mA (MAX.)	
	Microphone	3 PIN XLR / ¼" (6.3mm) Jack Microphone Socket	
		Switchable Condenser / Dynamic Input	
		Microphone Level -67 dB	
Frequency Respon	nse	550-3.6 kHz, <+/- 3dB	
THD		< 3%	
S/N		> 50dB	
Built-in Speaker		70mm x 30mm 32 Ohm 3 Watts	
Operating Range		Up to 200 meters between base station and slave	
Operating Temp.		0 – 40 °C	
Dimensions (LxW)	κH)	482x 127x 46mm	
Weight		1.9 kg	
Power		DC 12V, 8W	
ITC-100SL Belt Pac	k Unit	Specifications	
MIC / Headset So	cket	3.5 mm Stereo Jack Socket for Headphone /	
		Microphone Headset Impedance 8 - 600 Ohms	
		100 mW (Min.).	
		Microphone Level -67 dB	
		Or	
		2.5 mm Stereo Jack Socket for Motorola Mobile	
		Phone type headset / microphone.	
Tally OUT Socket		3.5 mm Jack Socket to connect to TD-2 or TD-3	
Tany OOT SOCKET		tally indicator.	
Tally LED		Bi-color LED – RED indicates LIVE / GREEN	
,		indicated CUED	
Frequency Response		550-3.6 kHz, <+/- 3dB	
THD		< 3%	
S/N		>50dB	
Operating Range		Up to 200 meters between Base Station and Slave.	
Operating Temp.	Range	0 – 40°C	
Dimensions (LxWxH)		114 mm x 97 mm x 35 mm	
Dillicitations (EXVV)	XI I)	114 11111 x 37 11111 x 33 11111	

Service & Support

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site www.datavideo.com for answers to common questions, support requests or contact your local office below.

Please visit our website for latest manual update. https://www.datavideo.com/product/ITC-100







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