SDR-5100M/SDR-5100
WT-5100/WM-5100
UHF PLL 100 CHANNEL WIRELESS SYSTEM
OPERATING MANUAL

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1. Introduction

Congratulation in owning one of these state-of-the-art Synthesized 100 channels frequency agile UHF high band professional wireless receivers.

The system contains the following components:

Receiver	Module Receiver	Hand-held Transmitter	Pocket Transmitter
ITEC SDR-5100	ITEC SDR-5100M	WM-5100	WT-5100

We suggest you to read this operating manual thoroughly in order to familiarize with each part of function before using.

1.1. General features of the system

With the ITEC 5100 you have a modern and professional wireless microphone system in the UHF domain available. The receivers (as the module receiver and the integrated 19" version) are true diversity receivers, ensuring a high operating distance and an undisturbed reception without short-term loss of communication. The innovative "pilot tone technique" offers a reliable protection against interferences caused by jamming transmitters and prevents switching noise during on-off operations of the sender.

2. Receiver

2.1. Diversity Receiver ITEC SDR-5100

1. Power switch
2. Power on indicator
3. RF signal indicator
4. AF signal indicator
5. Display
6. Frequency respectively Level +
7. Frequency respectively Level –
8. Next menu
9. Previous menu
10. Diversity display (antenna A/B)
11. Antenna B socket
12. XLR (balanced) audio output
13. Unbalanced audio output
14. DC IN jack
15. Antenna A socket

2.1.1. Receiver Installation

For best operation, the receiver should be at least 1m above the ground and at least 1m away from a wall or metal surface to minimize reflection. The transmitter should also be at least 1m away from a wall or metal surface to minimize reflection. The transmitter should also be at least 1m away from the receiver, as shown in Fig. 1. Keep antennas away from noise source such as motors, auto-mobiles, Spotlights with serious connection unit, neon light as well as large metal objects.

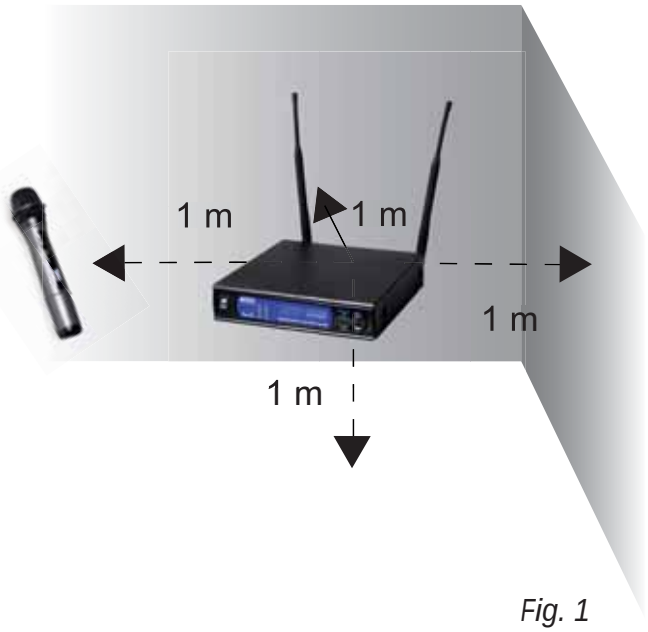


Fig. 1

2.1.2. Audio output connection

There are two audio outputs on the back of the Diversity SDR receivers. Mic-level balanced and Line-level unbalanced. Use shielded audio cable for the connection between the receiver and the mixer. If the mixer / amp is a 1/4“ phone jack, connect a cable from the 1/4“ unbalanced audio output from the receiver to the mixer / amp. If the mixer has an XLR input, connect a cable from the balanced XLR audio output from the receiver to the mixer input. Audio output connection is as Fig.2.

Fig. 2

2.1.3. Rack Mounting

The ITEC SDR-5100 receiver is suitable for installations within 19” racks. For this purpose 2 different mounting adapters are available (see picture 3 and 4)

Picture 3: Installation kit for one receiver (consisting of a short and a long angle bracket)

Picture 4: Installation kit for two receivers (consisting of 2 short angle brackets and a union joint)

2.1.4. Volume adjustment, channel selection and squelch set-up

2.1.4.1 Lock / unlock operation

In case the receiver is locked (as shown in the display), an unlock operation is required, before any adjustments of the set-up are possible. Press the PgUp 8 or the PrDn 9 button for several seconds: After carrying out the adjustments the locked mode can be reached in the same way again.

2.1.4.2 Volume adjustment

The volume can be adjusted directly on the main display by pressing the bottoms ▲6 and ▼7 in the range between 0 and 15. The new adjustments are stored automatically and remain in the event of a power failure.
Note: Please wait a few seconds after the unlock operation, until the actual volume is displayed in the second line of the display.

2.1.4.3 Channel selection / Frequency adjustment

Press the PgUp 8 or the PrDn 9 button until “CHANNEL/FREQUENCY” is displayed: Select the desired frequency using the keys ▲6 and ▼7 . The new adjustments are stored automatically and remain in the event of a power failure.

2.1.4.4 Squelch adjustment

Press the PgUp 8 or the PrDn 9 button until “SQUELCH SETUP” is displayed: Select the desired noise reduction by using the keys ▲6 and ▼7 in the range between 1 and 10. A high level indicates a high noise reduction (possible reduction of operating range); a low value indicates a low noise reduction (maximum operating range). Due to the implemented “pilot tone method” the probability the receiver is impacted by a jamming transmitter can be ruled out to a great extend. The device can be used in nearly all cases with minimum squelch level and maximum operating range (set-up value 1). The new adjustments are stored automatically and remain in the event of a power failure.

2.1.4.5 Auto Scan

The receiver contains a auto-scan function – an automatic search run: After starting the auto scan mode the receiver searches for the next free frequency. Due to the fact that only a temporary situation is evaluated, a frequency selection using the auto scan function is not recommendable.

2.1.5 Display of battery condition

The sender (WT-5100 respectively WM-5100) permanently transmits the battery condition to the receiver. In case the battery voltage is too low at the sender microphone, the warning “TX BATTERY LOW” is displayed: The battery in the microphone has to be replaced respectively the accumulator has to be recharged.

2.1.6 Antennas

Included with the receiver are two 5/8-Lamda antennas offering additional gain in a flexible, rubber coated design and an angled TNC connector.

2.2. Diversity Module receiver ITEC SDR-5100M

1. Channel display
2. Channel selection (unit position)
3. Channel selection (decade)
4. Operation display
5. Diversity display (antenna A/B)
6. Scan
7. Squelch Set-up
8. On/Off switch plus level adjustment

2.2.1 Switching-on and level adjustment

is carried out via the combined switch on knob / level regulator 8 .

2.2.2 Frequency adjustment (channel selection)

The desired channel is selected via the 2 + 3 keys. The number of the channel is shown on the display 1. The corresponding frequency is shown within the frequency list.

2.2.3 Squelch adjustment

The squelch adjustment is carried out via a potentiometer knob 7 . Turning it right (clockwise) increases the threshold (High noise reduction, possible reduction of operating range); turning it left (counterclockwise) decreases the threshold (low noise reduction, maximum operating range): Due to the implemented “pilot tone method” the probability the receiver is impacted by a jamming transmitter can be ruled out to a great extend. The device can be used in nearly all cases with minimum squelch level and maximum operating range (potentiometer knob turned to the most left position).

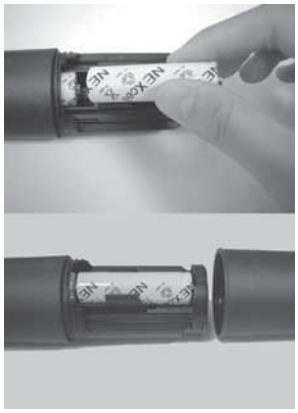
3. Hand-Held Microphone WM-5100 (UHF)

1. Microphone capsule modul
2. Battery status LED
3. ON/OFF switch
4. LCD
5. Battery compartment
6. Rotating protective cap for controls
7. LOCK/UNLOCK
8. SET
9. UP
10. DOWN
11. Charging port
12. Name plate

3.1 Changing of capsule

First unscrew the metal grill from the housing and take out the capsule to be replaced. Then insert in a new capsule. Either dynamic or condenser type can be chosen from location to location.

3.2 Batteries



The WM-5100 is powered by 2 batteries of the type AA.
Please note, that in case of a battery exchange both batteries must be replaced by a similar type at once. Be careful when inserting the batteries and check the correct polarity: For both batteries the negative pole has to point towards the microphone cap. The battery condition is shown on the LC display. The red battery indicator gives information on the battery status as well: When turning on the system the indicator shines for about one second. A permanent signal is a warning for a low battery condition.

Remark

Used batteries are hazardous waste and have to be disposed accordingly. Some batteries (in particular low-end products) can leak after long storage period and cause corrosion and ruining of the battery contacts. Use high quality alkaline batteries of known brands, which also offer a longer lifetime.

3.3 Operation with accumulators

If you use accumulators together with your wireless microphone and the ITEC charger, check that in the battery case accumulators of the original manufacturer and no batteries are inserted. In case a replacement of the accumulators is needed use original parts only.

3.4 Changing the set-up

3.4.1 Making changes to Channel/Frequency

Use UP or DOWN button to go to the CHANNEL/ FREQUENCY page. Press SET for about 2 seconds to activate the cursor. The cursor will flash to allow changes to be made. Pressing UP or DOWN button will increase or decrease the channel number. The corresponding frequency will change accordingly. When a desired channel is selected, press SET for about 2 seconds or wait for about 5 seconds tostore the data in the memory.

3.4.2 Making changes to Battery selection

Use UP or DOWN button to go to the Battery selection page. Press SET for about 2 seconds to activate the cursor. The cursor will flash to allow changes to be made. Press UP or DOWN button to move the cursor to either NiMH (rechargeable battery) or AKLN (Alkaline battery) position. When the desired battery has been selected, press SET for about 2 seconds or wait for about 5 seconds to store the data in the memory

4. Pocket transmitter WT-5100 (UHF)

1. Antenna
2. Batterie weak
3. Mini-XLR connector
4. Power on/off switch
5. LCD display
6. Charging port
7. Charging contacts
8. Lavalier microphones (optional)
9. Mic clip (optional)

12. Set
13. Up
14. Down
15. GT level adjustment for line-in (guitar)
16. MT level adjustment for microphone

4.1 Suitable connection cable respectively microphone

The pocket sender WT-5100 can be connected to the line-out socket of other audio equipment via the adaptor cable ITEC-MC12.A lapel microphone (Lavalier microphone, button microphone), which is suitable to the WT-5100 the ITEC-MC-12 is offered. Head sets are available in various variants, e.g. ITEC-MI and accordingly ITEC-MC.

4.2 Batteries

The WM-5100 is powered by 2 batteries of the type AA.
Please note, that in case of a battery exchange both batteries must be replaced by a similar type at once. Be careful when inserting the batteries and check the correct polarity: For both batteries the negative pole has to point towards the microphone cap. The battery condition is shown on the LC display. The red battery indicator gives information on the battery status as well: When turning on the system the indicator shines for about one second. A permanent signal is a warning for a low battery condition.

Remark

Used batteries are hazardous waste and have to be disposed accordingly. Some batteries (in particular low-end products) can leak after long storage period and cause corrosion and ruining of the battery contacts. Use high quality alkaline batteries of known brands, which also offer a longer lifetime.

4.3 Operation with accumulators

If you use accumulators together with your pocket sender and the ITEC charger, check that in the battery case accumulators of the original manufacturer and no batteries are inserted. In case a replacement of the accumulators is needed use original parts only.

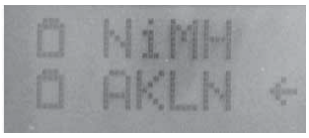
4.4 Ändern der Einstellungen

4.4.1 Making changes to Channel/Frequency

Use UP or DOWN button to go to the CHANNEL/ FREQUENCY page. Press SET for about 2 seconds to activate the cursor. The cursor will flash to allow changes to be made. Pressing UP or DOWN button will increase or decrease the channel number. The corresponding frequency will change accordingly. When a desired channel is selected, press SET for about 2 seconds or wait for about 5 seconds tostore the data in the memory.

4.4.2 Making changes to Battery selection

Use UP or DOWN button to go to the Battery selection page. Press SET for about 2 seconds to activate the cursor. The cursor will flash to allow changes to be made. Press UP or DOWN button to move the cursor to either NiMH (rechargeable battery) or AKLN (Alkaline battery) position. When the desired battery has been selected, press SET for about 2 seconds or wait for about 5 seconds to store the data in the memory



4.4.3 Level Adjustment

The gain settings for lavalier and head set microphones can be adjusted via the “MT” control knob. The input level for electronic guitars or other types of line-in signals can be adjusted via the “GT” control knob.

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Declaration of Conformity

Hersteller/ Manufacturer	ITEC Tontechnik und Industrieelektronik GesmbH
Anschrift/ Adress:	8200 Lassnitzthal 300, Austria
Produktbezeichnung/ Product name:	Drahtlosmikrofone Wireless microphones
Type/ Type:	ITEC WM-516, WM-5100, WT-516, WT-5100

Das bezeichnete Produkt stimmt mit den Vorschriften folgender Europäischer Richtlinien überein, nachgewiesen durch die Einhaltung folgender Normen:

The above mentioned product has been manufactured according to the regulations of the following European directives proven throug compliance with the following standards:

Normen / Generic standards
EMC: EN 301 489-1: V 1.8.1 (04/2008), EN 301 489-9: V 1.4.1 (11/2007)
Radio: EN 300 422-2: v.1.2.2 (03/2008), EN 300 422-1: v.1.3.2 (03/2008)
Safety: EN 60065:2002/A1:2006/A11:2008

Notified Body CE 0681!

ING. WERNER LOIBNER
Name/Name

Geschäftsführer / Managing Director
Stellung/Position

2009-02-02
Datum/Date

Unterschrift/Signature

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, beinhaltet jedoch keine Zusicherung von Eigenschaften. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

This declaration certifies compliance with the above mentioned directives but does not include a property assurance. The safety notes given in the product documentations, which are part of the supply, must be observed.

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9GMY710 (710MHz-730MHz)

Chanel	Fequenz	Chanel	Fequenz	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency
1	710,300	18	727,500	35	714,500	52	719,300	69	723,950	86	728,000
2	711,500	19	728,400	36	714,800	53	719,600	70	724,100	87	728,150
3	712,400	20	728,850	37	714,950	54	719,900	71	724,400	88	728,300
4	712,850	21	730,350	38	715,250	55	720,200	72	724,700	89	728,400
5	714,350	22	710,600	39	715,550	56	720,500	73	725,000	90	728,600
6	715,100	23	710,900	40	715,850	57	720,650	74	725,300	91	728,750
7	716,150	24	711,200	41	716,000	58	720,950	75	725,600	92	728,850
8	716,750	25	711,500	42	716,300	59	721,250	76	725,900	92	729,050
9	718,300	26	711,800	43	716,600	60	721,550	77	726,200	94	729,200
10	719,500	27	712,100	44	716,900	61	721,850	78	726,500	95	729,350
11	720,400	28	712,400	45	717,200	62	722,150	79	726,800	96	729,500
12	720,850	29	712,700	46	717,500	63	722,450	80	727,100	97	729,650
13	722,350	30	713,000	47	717,800	64	722,750	81	727,250	98	729,800
14	723,100	31	713,300	48	718,100	65	723,050	82	727,400	99	729,950
15	724,150	32	713,600	49	718,400	66	723,350	83	727,500	100	730,100
16	724,750	33	713,900	50	718,700	67	723,650	84	727,700		
17	726,300	34	714,200	51	719,000	68	723,800	85	727,850		

9GMY730 (730MHz-750MHz)

Chanel	Fequenz	Chanel	Fequenz	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency
1	730,350	18	747,500	35	734,100	52	739,050	69	744,000	86	748,200
2	731,100	19	748,400	36	734,400	53	739,350	70	744,300	87	748,350
3	732,150	20	748,850	37	734,700	54	739,650	71	744,600	88	748,500
4	732,750	21	750,350	38	735,000	55	739,950	72	744,900	89	748,650
5	734,300	22	730,650	39	735,300	56	740,250	73	745,200	90	748,800
6	735,500	23	730,950	40	735,600	57	740,550	74	745,500	91	748,950
7	736,400	24	731,250	41	735,900	58	740,700	75	745,800	92	749,100
8	736,850	25	731,550	42	736,050	59	741,000	76	746,100	92	749,250
9	738,350	26	731,850	43	736,350	60	741,300	77	746,400	94	749,400
10	739,100	27	732,150	44	736,650	61	741,600	78	746,700	95	749,550
11	740,150	28	732,300	45	736,950	62	741,900	79	747,000	96	749,700
12	740,750	29	732,600	46	737,250	63	742,200	80	747,300	97	749,850
13	742,350	30	732,750	47	737,550	64	742,500	81	747,450	98	750,000
14	743,100	31	733,050	48	737,850	65	742,800	82	747,600	99	750,150
15	744,150	32	733,200	49	738,150	66	743,100	83	747,750	100	750,300
16	744,750	33	733,500	50	738,450	67	743,400	84	747,900		
17	746,300	34	733,800	51	738,750	68	743,700	85	748,050		

9GMY766 (766MHz-786MHz)

Chanel	Fequenz	Chanel	Fequenz	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency
1	766,100	18	783,500	35	770,350	52	775,150	69	780,250	86	784,000
2	766,700	19	784,400	36	770,650	53	775,450	70	780,550	87	784,100
3	767,500	20	784,850	37	770,950	54	775,750	71	780,850	88	784,300
4	768,200	21	766,300	38	771,100	55	776,050	72	781,150	89	784,450
5	768,850	22	766,600	39	771,400	56	776,350	73	781,450	90	784,600
6	771,000	23	766,900	40	771,700	57	776,650	74	781,750	91	784,750
7	772,100	24	767,200	41	772,000	58	776,950	75	782,050	92	784,900
8	772,900	25	767,500	42	772,150	59	777,250	76	782,200	92	785,050
9	774,300	26	767,800	43	772,450	60	777,550	77	782,500	94	785,200
10	775,500	27	768,100	44	772,750	61	777,850	78	782,650	95	785,350
11	776,400	28	768,400	45	773,050	62	778,150	79	782,800	96	785,500
12	776,850	29	768,700	46	773,350	63	778,450	80	782,950	97	785,650

9GMY766 (766MHz-786MHz)

Chanel	Fequenz	Chanel	Fequenz	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency
13	778,350	30	769,000	47	773,650	64	778,750	81	783,100	98	758,800
14	779,100	31	769,300	48	773,950	65	779,050	82	783,250	99	785,950
15	780,150	32	769,600	49	774,250	66	779,350	83	783,400	100	786,100
16	780,750	33	769,900	50	774,550	67	779,650	84	783,700		
17	782,300	34	770,200	51	774,850	68	779,950	85	783,850		

X XXX.XXX **to prefer**

9HOL654 (654MHz-674MHz)

Chanel	Fequenz	Chanel	Fequenz	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency
1	654,300	18	671,500	35	658,500	52	663,300	69	667,950	86	672,000
2	655,500	19	672,400	36	658,800	53	663,600	70	668,100	87	672,150
3	656,400	20	672,850	37	658,950	54	663,900	71	668,400	88	672,300
4	656,850	21	674,350	38	659,250	55	664,200	72	668,700	89	672,450
5	658,350	22	654,600	39	659,550	56	664,500	73	669,000	90	672,600
6	659,100	23	654,900	40	659,850	57	664,650	74	669,300	91	672,750
7	660,100	24	655,200	41	660,000	58	664,950	75	669,600	92	672,900
8	660,750	25	655,500	42	660,300	59	665,250	76	669,900	92	673,050
9	662,300	26	655,800	43	660,600	60	665,550	77	670,200	94	673,200
10	663,500	27	656,100	44	660,900	61	665,850	78	670,500	95	673,350
11	664,400	28	656,400	45	661,200	62	666,150	79	670,800	96	673,500
12	664,850	29	656,700	46	661,500	63	666,450	80	671,100	97	673,650
13	666,350	30	657,000	47	661,800	64	666,750	81	671,250	98	673,800
14	667,100	31	657,300	48	662,100	65	667,050	82	671,400	99	673,950
15	668,150	32	657,600	49	662,400	66	667,350	83	671,550	100	674,100
16	668,750	33	657,900	50	662,700	67	667,650	84	671,700		
17	670,300	34	658,200	51	663,000	68	667,800	85	671,850		

9EU863 (863MHz-865MHz)

Chanel	Fequenz	Chanel	Fequenz	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency
1	863,050	4	863,425	7	863,800	10	864,175	13	864,550	15	864,800
2	863,175	5	863,550	8	863,925	11	864,300	14	864,675	16	864,925
3	863,000	6	863,675	9	864,050	12	864,425				

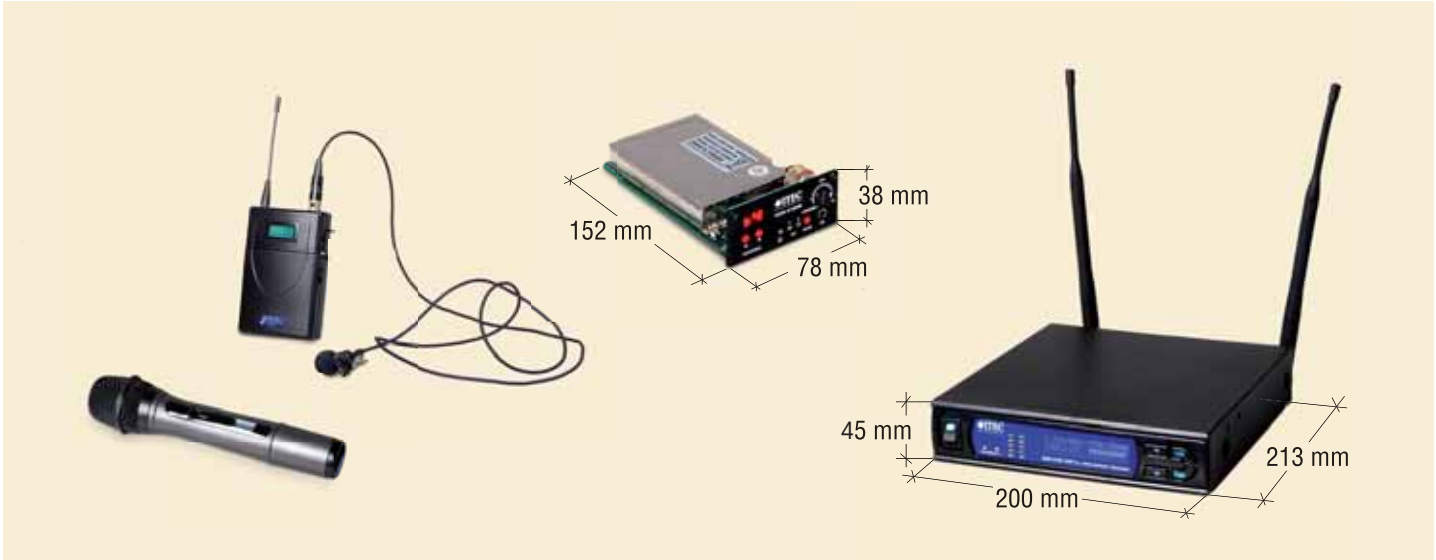
9GMY823 (823MHz-831MHz)

Chanel	Fequenz	Chanel	Fequenz	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency
1	823,125	18	829,575	35	825,450	52	826,800	69	828,150	86	829,425
2	823,975	19	830,450	36	825,525	53	826,875	70	828,225	87	829,500
3	824,850	20	830,975	37	825,600	54	826,950	71	828,300	88	829,575
4	825,150	21	831,050	38	825,675	55	827,025	72	828,375	89	829,650
5	825,475	22	831,125	39	825,750	56	827,100	73	828,450	90	829,725
6	826,200	23	831,200	40	825,825	57	827,175	74	828,525	91	829,800
7	827,400	24	831,275	41	825,900	58	827,250	75	828,600	92	829,875
8	828,175	25	824,625	42	825,975	59	827,325	76	828,675	93	830,950
9	829,975	26	824,700	43	826,050	60	827,475	77	828,750	94	830,025
10	830,325	27	824,775	44	826,125	61	827,550	78	828,825	95	830,100
11	824,650	28	824,925	45	826,275	62	827,625	79	828,900	96	830,175
12	826,225	29	825,000	46	826,350	63	827,700	80	828,975	97	830,250
13	826,750	30	825,075	47	826,425	64	827,775	81	829,050	98	830,400
14	827,125	31	825,15	48	826,500	65	827,850	82	829,125	99	830,475
15	828,425	32	825,225	49	826,575	66	827,925	83	829,200	100	830,550
16	828,750	33	825,300	50	826,650	67	828,000	84	829,275		
17	829,250	34	825,375	51	826,725	68	828,075	85	829,350		

9HOL613 (613MHz-638MHz)

Chanel	Fequenz	Chanel	Fequenz	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency	Chanel	Frequency
1	613,350	18	634,525	35	632,350	52	628,300	69	624,350	86	620,975
2	614,525	19	635,100	36	633,300	53	629,925	70	637,500	87	621,725
3	615,925	20	636,525	37	633,950	54	632,125	71	626,500	88	623,375
4	617,025	21	613,475	38	634,725	55	632,525	72	628,550	89	624,375
5	618,750	22	614,650	39	635,300	56	633,475	73	630,175	90	637,775
6	620,350	23	616,050	40	636,850	57	634,125	74	632,375	91	626,625
7	621,100	24	617,150	41	613,725	58	634,900	75	632,775	92	628,675
8	622,750	25	618,875	42	614,900	59	635,475	76	633,725	93	630,300
9	623,750	26	620,475	43	616,300	60	637,275	77	634,375	94	632,500
10	624,850	27	621,225	44	617,400	61	613,950	78	635,150	95	632,900
11	625,875	28	622,875	45	619,125	62	615,125	79	635,752	96	633,850
12	627,925	29	623,875	46	620,725	63	616,525	80	637,750	97	634,500
13	629,550	30	636,650	47	621,475	64	617,625	81	613,975	98	635,275
14	631,750	31	626,075	48	623,125	65	619,350	82	615,150	99	635,850
15	632,150	32	628,125	49	624,125	66	620,950	83	616,550	100	637,900
16	633,100	33	629,750	50	637,100	67	621,700	84	617,650		
17	633,750	34	631,950	51	626,250	68	623,350	85	619,375		

ITEC 5100 WIRELESS SYSTEM - SPECIFICATIONS



GENERAL FEATURES OF THE SYSTEM	
Maximum Frequency Deviation	± 40 kHz
Frequency Response	50 Hz – 18 kHz
Harmonic Distortion	< 0,5 %
Signal-to-Noise Ratio	> 103 dB
SUPPLY VOLTAGE	
WT-5100, WM-5100	2 Alkaline batteries (AA) respectively 2 NiMH accumulators, 1800mAh
SDR-5100, SDR-5100M	12 – 15 VDC, circa 150 mA
RECEIVER SDR-5100	
Indicators	LED-chain for NF- and HF-levels, Diversity-display, Antenna A / B
Display	graphical LCD, blue backlight
NF-output MIC	XLR-M 3-poles, balanced, 150 mV / 600 ohms
NF-output LINE	Jack 6,3 mm, unbalanced, 1.5V / 15 kohms
Antenna connection	2 x TNC
Dimensions (W x H x D)	200 x 45 x 213 mm (9.5“ / 1 HU)
Weight	1,1 kg
Included accessories	2 5/8 Lambda antennas, wall power supply 230 VAC / 12 VDC
Optional accessories	19“ mounting adapter: Set 1 for one / Set 2 for 2 receivers
RECEIVER SDR-5100M	
Indicators	Diversity-display, Antenna A / B
Display	2-digits LED 7-Segment display, red
All connections	Connector strip 3.96 mm, 2 x 10-poles
Dimensions (W x H x D)	78 x 38 x 152 mm
Weight	0,15 kg

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