

OWNER'S GUIDE

MODEL : CYTEL-1900

(900MHz CORDLESS TELEPHONE)

HYBRID TELECOM, INC.
FCC ID: OUIJCYTEL-1900
EXHIBIT # ISA

PROGRESS ONE
INTERNATIONAL LTD.

= SPECIFICATION (PRELIMINARY) =

1. GENERAL

* FREQUENCY (BASE) (PORTABLE)	[TX 902.12 MHz ~ 903.29 MHz RX 926.12 MHz ~ 927.29 MHz
* NUMBER OF CHANNEL	: 40 CHANNELS
* CHANNEL SPACE	: 30 KHz
* USABLE SENSITIVITY	: BETTER THAN -105dBm (SINAD : 20dB)
* R.F OUTPUT POWER	: -3.0dBm $\pm$ 2.0dBm
* TYPE OF MODULATION	[AUDIO : FM (F3E) DATA : MSK 1270 BPS
* ID CODE	: MORE THAN 10 ⁶ (E ² PROM)
* BATTERY CAPACITY	[CAPACITY : 650mAh (3.6V) TALK TIME : 4 HOURS STAND-BY TIME : 4 DAYS
* ADAPTOR	: 9.0 V DC / 350mA
* WEIGHT	[HANDSET (INCLUDING BATTERY) : BASE :

2. TELEPHONE

* OFF-HOOK RESISTANCE	: MAX 200 Ω (ON 20mA LOOP CONDITION)
* ON HOOK IMPEDANCE	: MIN 30 K Ω (FREQUENCY 15.8Hz ~ 68Hz)
* RETURN LOSS (600 ohm)	: MIN 10 dB
* TRANSMISSION (OREM-A) - 0 Km	[SLR : +7.5dB $\pm$ 3dB RLR : HI : -8dB LOW : -2dB S.T : MIN +10dB
* FLASH TIME	: 800ms $\pm$ 50ms
* DTMF DURATION	[SIGNAL : 100ms PAUSE : 100ms
* DTMF LEVEL	[HIGH GROUP : -6 $\pm$ 2dBm LOW GROUP : -8 $\pm$ 2dBm TWIST : LESS THAN 4dB
* I.D.P	: 840ms
* BREAK RATIO	: 2 : 3
* PULSE SPEED	: 10 PPS
* L.N.D	: 31 DIGITS
* MEMORY	: 16 DIGITS $\times$ 10 LOCATIONS
* PAUSE TIME	: 3.8 SEC
* RING TURN-ON VOLTAGE	: LESS THAN 45 V _{rms}

= CYTEL-1900 FEATURE LIST =

A. HAND SET

- * 40 RADIO CHANNELS**
- * FLASH (HOOK)**
- * MEMORY (16 DIGITS X 10 LOCATIONS)**
- * INDICATORS : TALK**
- * SWITCH RINGER ON / OFF, VOLUME ON / OFF**
- * REDIAL (31 DIGITS)**
- * PAUSE**
- * TEMPORARILY TONE DIALLING MODE**
- * FUNCTION KEY**
TALK, PAUSE / REDIAL, MEMORY, CHANNEL, FLASH, TONE
- * VOLUME CONTROL (HIGH, LOW)**
- * HEAD SET JACK (OPTION)**

B. BASE SET

- * PAGING : ONE WAY**
- * INDICATORS : TALK /CHARGE /PAGE ONE DISPLAY LED**
- * TONE / PULSE MODE**

= FUNCTION DESCRIPTION =

A. DIAL MEMORY (16 DIGITS × 10 LOCATIONS)

1. SET THE PORTABLE UNIT TO STANDBY MODE
2. TAP THE MEMORY BUTTON
3. DIAL THE TELEPHONE NUMBER ON THE DIAL PAD
4. TAP THE MEMORY BUTTON AGAIN
5. TAP THE DIAL PAD KEY (0~9) YOU HAVE CHOSEN FOR THE MEMORY LOCATION
REPEAT STEPS 2 THROUGH 5 TO STORE ADDITIONAL NUMBERS.

B. MEMORY DIALING

1. TAP THE TALK BUTTON
2. WHEN THE LINE1 LED GOES ON, TAP THE MEMORY BUTTON
3. TAP THE DIAL PAD KEY (0~9) WHERE THE NUMBER IS STORED.

C. PULSE / TONE SWITCH

SET THE TONE/PULSE SWITCH ACCORDING TO THE TYPE OF TELEPHONE EXCHANGE SERVICE PROVIDED BY TELECOM IN YOUR.

TONE : FOR TOUCH TONE EXCHANGE SERVICE

PULSE : FOR PULSE OR ROTARY DIAL EXCHANGE SERVICE

D. RINGER ON/OFF, POWER ON/OFF SWITCH

SET TO "RINGER ON" POSITION : HAND SET RINGER ON MODE

SET TO "RING OFF" : RINGER OFF MODE

E. PAUSES IN DIALING

THE PAUSE BUTTON STORES A 3.8 SECONDS DELAY IN THE DIALING SEQUENCE. EXTEND THE PAUSE LENGTH WITH CONSECUTIVE PAUSE EXTRIES. EACH PAUSE USES ONE DIGIT OF MEMORY.

F. MIXED DIALING TONE

IN THE PULSE MODE, P→T BUTTON TONE IS USED TO CHANGE THE MODE FROM PULSE TO TONE TEMPORARY.

G. REDIALING(REDIAL)

PRESS THE REDIAL BUTTON TO REDIAL THE LAST NUMBER YOU CALLED.

H. TALK BUTTON

THIS BUTTON IS OPERATED AS THE HOOK SWITCH OF NORMAL TELEPHONE.

I. FLASH BUTTON

ACCESSES CALL WAITING OR GIVES YOU A NEW DIALLING AND THIS BUTTON WORKS AS THE HOOK SWITCH WHILE THE RF LINK BETWEEN PORTABLE AND BASE IS CONNECTED.

J. PAGING BUTTON AND DISPLAY

THE PAGING FUNCTION CAN BE AVAILABLE FROM BASE UNIT TO HAND SET UNIT(ONE WAY PAGING) THE TALK LED IS ALTERNATELY BLINKING.

K. LOW BATTERY INDICATION

WHEN THE BATTERY VOLTAGE OF THE PORTABLE UNIT IS LESS THAN 3.3 VOLTS, THE

TALK LED STARTS TO BLINK, AND TWO ALERT BEEP SIGNAL IS TRANSMITTED THROUGH THE BUZZER IN THE PORTABLE UNIT. IN THE LOW BATTERY MODE.

L. CHARGE DISPLAY

WHILE THE PORTABLE UNIT IS PLACED IN THE CRADLE OF THE BASE UNIT, THE CHARGE LED ON TO INDICATE THE CHARGER MODE.

M. VOLUME SWITCH

THE HANDSET'S RECEIVER VOLUME CONTROL CAN BE ADJUSTED FOR LISTENING NEER OR PREFERENCE.

N. CHANNEL BUTTON

WHILE TALKING, YOU MIGHT NEED TO MANUALLY CHANGE THE CHANNEL IN ORDER GET RID OF STATIC. PRESS AND RELEASE THE CHANNEL BUTTON TO ADVANCE TO THE NEXT CLEAR CHANNEL.

FREQUENCE OF XXXX

- * CHANNEL SPACE : 30KHz (0.03MHz)
- * 1'ST I.F : 10.7MHz
- * 2'ND I.F : 450KHz
- * TCXO (X-TAL) : 11.15MHz
- * REF FREQ OF PLL : 10KHz

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