



31040/SIT



A96/TH/0093



46390-2049



200093-0



00-034

3000 Bristol Circle,
Oakville, Ontario, Canada
L6H 6G4

Telephone (905) 829-1570
Facsimile (905) 829-8050

Website: www.ultratech-labs.com
Email: vic@ultratech-labs.com

May 8, 2002

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
USA

Attention: Mr. Joe Dichoco

Re: FCC ID P4F1100A

Applicant: New Horizons Technologies International Inc.

Correspondence Reference Number: 22767

731 Confirmation Number: EA424029

Dear Mr. Dichoso,

This concerns your questions in the Correspondence Reference Number 22767:

EMC Answers:

- (1) Please find the description of compliance with E911 Requirements in following pages provided by the applicant.
- (2) Please find the description of compliance with ESN Requirements in following pages provided by the applicant.
- (3) Please replace the test report sent on 3/14 it contains small error in the emission frequencies scanned.
- (4) Section 4.2 with indication of 50 Ohm Load is a mistake in our general report format for FCC 22 & 90 for non-portable radio. The ERP was tested with the antenna. Please refer to our photographs of test setup for actual test setup of EUT with its integral antenna. The antenna is an integral part mounted inside the enclosure.
- (5) The RF output was programmed by manufacturer, and it was set at maximum setting for testing. The manufacturer will change the Tune up procedure to remove the +0.1 dB.
- (6) Please correct the emission designation to 40K0F8W and 40K0F1D

RF Safety Questions:

- (1) The conducted power was measured as specified the EMC test report. The antenna was replaced by a RF connector and cable with the known insertion loss (provided by the manufacturer, specially made for RF output power measurement purpose). Please refer to Section 6.5.5 of the EMC test report for details.
- (2) The EMI Nickel shield will be applied on the production unit in the exact same manner with the test sample (same areas, dimension, thickness and material). Please refer to the manufacturer's description in the following pages.
- (3) We have repeated the SAR tests with 2 different manufacturers' batteries and the results were found as follows:
 - Battery #1 (Energizer E2 Titinium) : 1.042 W/Kg
 - Battery #2 (Mallory Super Heavy Duty) : 0.988 W/Kg
 - The maximum peak spatial-average SAR in the original report was 1.065 W/Kg at 849 MHz.

Please refer to "RF-Exposure Info" folder for additional SAR test data with 2 different batteries.

- (4) Refer to "System Calibration" in RF Exposure folder
- (5) Refer to "System Validation" in RF Exposure folder
- (6) The PC control software and test jig provided by manufacturer were used in order to put the EUT into test mode. The controlling cable from the test jig was connected to the EUT's jack which is only made for testing purpose and will not be accessible in its normal usage. And once the EUT was put into test mode, the cable and test jig were removed during the test so as to be normal usage.

If you have any queries, please do not hesitate to contact us.

Yours truly,

Tri Minh Luu, P. Eng.,
V.P., Engineering

Encl

**FORM B – ELECTRONIC SERIAL NUMBER MANUFACTURER’S CODE
APPLICATION DISPOSITION**

Your application filed **1/23/2002**..... for assignment of an ESN
Manufacturer’s Code has been reviewed by the Administrator. The box checked
below indicates the action taken:

X Your application has been approved. The ESN Manufacturer’s Code
assigned for your use is: **071**
The assignment is effective as of:.....**3/15/2002**.....

The information recorded for this assignment is shown below. Please
notify the Administrator immediately of any errors in or changes to this
information.

☐ Your application has been denied for the following reason(s):

.....

.....

You are entitled to appeal this denial as specified in Section 13 of the
assignment guidelines.

☐ The following additional information is needed to process your application:

.....

.....

Authorized name:..**John Willse**.....

Authorized signature:.....(Electronic Signature).....

Date: **1/31/2002**



**John Willse
TIA TR-45 ESN Administrator**

Date: January 31, 2002

Mr. Lynn P. Sandford
New Horizons Technologies International, Inc.
5575 S. Semoran Boulevard, Suite 30
Orlando, FL 32807

Dear Mr. Sandford,

I have assigned ESN Manufacturer Code #071 for use in the manufacture of the equipment listed on your application.

Please complete Form C and return as soon as deployment of the ESN Manufacturer Code has begun. Please be aware that there is a time limitation for the initiation of deployment of Code #071.

I have included a copy of Form C with this transmission. I have also included a copy of Form G. This form must also be completed and returned along with Form C. A copy of Form G is also required on the anniversary date each year.

Please be aware that neither TIA nor the ESN Administrator is responsible for delays in implementation of this code by carriers or authentication centers. A list of assigned ESN codes is available on the TIA web page www.tiaonline.org and in other industry publications.

Sincerely,

[Electronic Signature]

John Willse
**FORM C – ELECTRONIC SERIAL NUMBER MANUFACTURER’S CODE
DEPLOYMENT FORM**

By submitting this form, I certify that

ESN Manufacturer's Code:

.....

Assigned to:

.....

Is deployed effective (date):

.....

Authorized name:

.....

Authorized signature:

.....

Date of this notification:

.....

Return completed application forms to:

**Engineering Committee TR-45 ESN Administrator
c/o Telecommunications Industry Association
2500 Wilson Boulevard, Suite 300
Arlington, VA 22201 USA
Phone: +1 703-907-7700 Fax: +1 703-907-7727**

FORM G - CERTIFICATION OF COMPLIANCE WITH ESN GUIDELINES

We, _____, certify that ESN Code _____, has been used in
(Assignee)
accordance with the principles and specifications set forth in the ESN Guidelines as
published by the Telecommunications Industry Association.

We further specify that we have complied in specific with Sections 5, 6, and 7 of the ESN
Guidelines.

We understand that failure to comply with the ESN Guidelines and specifically Sections
5, 6, and 7 will result in the forfeiture of the above ESN Code.

Serial Numbers used thus far are in the range of _____ to _____.

Signed: _____

Title: _____

Date: _____

Return completed FormG to:

**Engineering Committee TR-45 ESN Administrator
c/o Telecommunications Industry Association
2500 Wilson Boulevard, Suite 300
Arlington, VA 22201 USA
Phone: +1 703-907-7700 Fax: +1 703-907-7727**

Roger R. Bisby
18910 E. 22nd Terrace N.
Independence, Missouri 64058-1361
816-796-8816
6 May 2002

Federal Communications Commission
Equipment Authorization Division
7435 Oakland Mills Drive
Columbia, Maryland 21046

In the Matter Of: FCC ID: P4F1100A, EA424029

To Whom It May Concern:

On behalf of New Horizons Technologies International, The Following are in response to your inquiry.

1. The NHTI Model 1100A complies with the FCC requirements for e-911 service as follows.

Once the unit has been service provisioned by the addition of the ESN/MIN information, the unit will allow placement of E-911 calls and the reporting of the MIN (Phone Number) to the PSAP.

Both A and B systems are supported for this purpose.

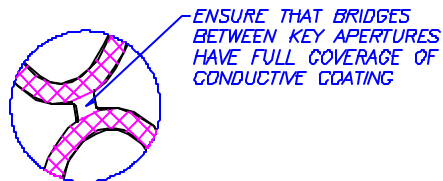
Position information can be made by Triangulation or TDOA methods provided on the Analog Network Where Available.

2. The application of the MG Chemicals Super Shield coating material will be applied per the accompanying drawing. Utilizing computer assisted application equipment to ensure 99.9% coverage of the front cover.

If you have further questions please contact our test facility, UltraTech Laboratories, Inc. at 905-829-1570

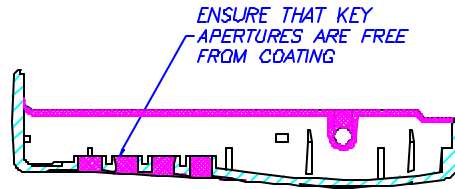
Sincerely,

Roger R. Bisby
816-796-8816
rrb3ip@aol.com



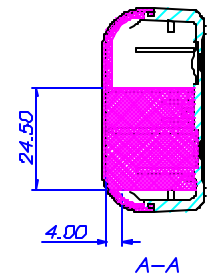
DETAIL E
SCALE 5:1

ENSURE THAT BRIDGES
BETWEEN KEY APERTURES
HAVE FULL COVERAGE OF
CONDUCTIVE COATING

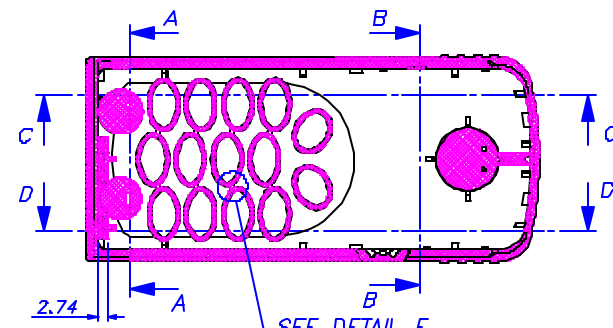


ENSURE THAT KEY
APERTURES ARE FREE
FROM COATING

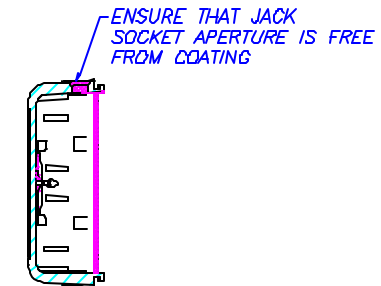
C-C



A-A

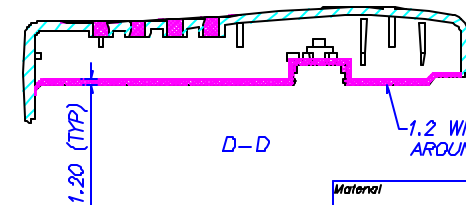


SEE DETAIL E



B-B


ENSURE THAT JACK
SOCKET APERTURE IS FREE
FROM COATING

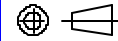


D-D

1.2 WIDE BAND
AROUND EDGES

NOTES:

1. INTERNAL SURFACES TO BE COATED
WITH CONDUCTIVE NICKEL PAINT.
2. AREAS MARKED THUS:  ARE TO BE FREE
FROM PAINT.
3. ALL EXTERNAL SURFACES ARE TO BE FREE
FROM PAINT AND OVERSPRAY.

Material				Tolerances				amazon technology			
FRONT COVER NH1-01-2032				Non electrical dimensions ± 0.30							
				One electrical piece ± 0.25							
				Two electrical pieces ± 0.1							
				Up to 6 mls holes ± 0.05 -0.03							
				Angular ± 0.1°							
Finish								Scale 1:1			
SEE NOTES								Dimensions in mm			
								 Dimensions in mm			
								Title			
								FRONT COVER - CONDUCTIVE COATING			
								Drawing No.			
								NH1-01-2032-MASK			
								Sheet 1 of 1			
B Mask updated 29.01.02 RN											
A Initial Issue 10.01.02 RN											
Iss Details Date Dim.											