



TAMAYA NAVIGATOR

NC-2100G

Programmed Navigation Functions

1. Navigation Computations for Dead Reckoning and Piloting PILOT 1
 - 1) Course and Distance
 - 2) Dead Reckoning
 - 3) Great Circle
 - 4) Composite Sailing
 - 5) Estimated Time of Arrival
2. Navigation Computations for Current, True Wind, Tide and Stream PILOT 2
 - 1) Current
 - 1-1) Course and Speed Made Good
 - 1-2) Course and Speed to Make Good
 - 1-3) Course to Steer and Speed Made Good
 - 1-4) Set and Drift
 - 2) Direction and Speed of True Wind
 - 3) Tide at Standard Port
 - 4) Tidal Stream
3. ASTRO. NAV
 - 1) Twilight
 - 2) Prediction & Identification
 - 3) Nautical Almanac
 - 4) Line of Position
 - 5) Position Fix
 - 6) Meridian Passage
4. SEXTANT
 - 1) Altitude Corrections
 - 2) Distance to Object
5. TIME & ARC
 - 1) Time computation
 - 2) Arc computation
6. TIME Calculations
 - 1) To HMS
 - 2) To HHH
 - 3) Normal Computations

FEATURES

- Simple operation with built-in programs
- Course and Distance computation
- Dead Reckoning computation
- Great Circle computation
- ETA computation
- Current computation
- LOP computation
- Meridian Passage computation
- Convenient conversions for to HMS and to HHH
- Long term Nautical Almanac for the Sun, Moon, Venus, Mars, Jupiter, Saturn and 63 stars. The built-in Almanac is usable until 2100, it is good with accuracy better than 0'.2
- Twilight Time mode computes time of rise or set, civil twilight and azimuth for the Sun and rise or set, age and azimuth for the Moon
- Prediction/Identification mode computes azimuth and altitude for all celestial bodies and displays any usable bodies above the horizon

PDA

Operation :	Touch panel with stylus pen
Power source :	Lithium-ion battery and AC adapter (AC 100 – 240V)
Operating Time :	Approx. 15 hours for continuous operation
Charging Time :	Approx. 2~4 hours (4 hours for full charging)
Operating Temperature :	0°C~45°C
Display :	LCD (65,536 colors), 240 x 320 dots
OS :	Microsoft Windows Mobile 6 Classic
Dimensions :	68.9mm (W) x 116.7mm (D) x 13.6mm (H), or 2.71 in x 0.54 in x 4.59 in
Weight :	114.6 g (including battery), or 3.86 oz
Accessories :	AC adapter and stylus pen (For more details on the accessories supplied with HP iPAQ 110, please refer to the enclosed <i>Getting Started</i> CD.)

※ The design and specifications of the PDA might change without prior notice.

Course and Distance

PILOT1 - CD	
LATd	38°04'.5 N
LONd	135°15'.6 E
LATa	39°02'.0 N
LONa	136°35'.2 E
CO	47°23'.3
DIST	84.7

M+ CHAIN EXIT
BACK CM

Top

Departure Lat.
Departure Long.
Arrival Lat.
Arrival Long.
Course
Distance

3) Set and Drift

PILOT2 - SET&DRFT	
LATdr	35°11'.2 N
LONdr	140°25'.8 E
LATf	35°16'.5 N
LONf	140°32'.5 E
TIMEr	02:45:00
SET	46°02'.8
DIF	7.6
DRFT	2.8 kn

EXIT BACK

Top

DR Lat.
DR Long.
Fix Lat.
Fix Long.
Time
Set
Distance Drifted
Drift

Position Fix

ASTRO.NAV - FIX	
# AZ	INT
1	359°23'.8 + 2'.9
2	83°08'.7 - 14'.9
3	
4	166°18'.8 - 0'.8
5	
6	
7	

7 8 9 BACK
4 5 6 BS
1 2 3 C
0 . ENTER OK

Top

No. Azimuth Intercept

Dead Reckoning

PILOT1 - DR	
LATd	29°57'.6 N
LONd	112°14'.2 W
CO	200°00'.0
DIST	60
LATa	29°01'.0 N
LONa	112°37'.8 W

CHAIN EXIT BACK

Top

Departure Lat.
Departure Long.
Course
Distance
Arrival Lat.
Arrival Long.

Direction and Speed of True Wind

PILOT2 - WIND D&S	
CO	115°00'.0
SPD	6.5 kn
WD	145°00'.0
WS	16.0 kn
WDt	162°24'.0
WSt	10.9 kn

EXIT BACK

Top

Ship Course
Ship Speed
Apparent Wind Direction
Apparent Wind Speed
True Wind Direction
True Wind Speed

ASTRO.NAV - FIX	
[Diagram showing a compass rose with a vertical line and a horizontal line intersecting at the center. A small triangle is positioned on the horizontal line to the right of the center.]	

▲ ▼
OK BACK

Top

Great Circle

PILOT1 - GC	
LATd	37°50'.8 N
LONd	122°25'.5 W
LATa	34°52'.0 N
LONa	139°42'.0 E
CO	302°37'.9
DIST	4488.8
LATv	48°19'.0 N
LONv	168°38'.8 W

dLON EXIT BACK

Top

Departure Lat.
Departure Long.
Arrival Lat.
Arrival Long.
Initial Course
Great Circle Distance
Vertex Lat.
Vertex Long.

Nautical Almanac

ASTRO.NAV - ALMANAC	
GMT	10:12:39
DATE	07/31/1996
CB	Arcturus
DEC	19°12'.3 N
GHAa	102°28'.7
SHA	146°07'.4
GHA	248°36'.1

AC.Z EXIT BACK

Top

Greenwich Mean Time
Date
Celestial Body
Declination
Greenwich Hour Angle

ASTRO.NAV - FIX	
LATdr	31°20'.3 N
LONdr	138°13'.8 W
LATf	31°20'.4 N
LONf	138°30'.7 W

DR EXIT BACK

Top

DR Latitude
DR Longitude
Fix Lat.
Fix Long.

Current

1) Course and Speed Made Good

PILOT2 - C&S MG	
CO	80°00'.0
SPD	10.0 kn
SET	140°00'.0
DRFT	2.0 kn
COmg	88°56'.9
SPDmg	11.1 kn

EXIT BACK

Top

Course steered
Speed through water
Set
Drift
Course made good
Speed made good

Calculated Altitude and Azimuth

ASTRO.NAV - ALMANAC	
GMT	10:12:39
DATE	07/31/1996
CB	Arcturus
LATdr	35°34'.7 N
LONdr	141°16'.1 E
AZ	246°03'.0
ALT	59°01'.7

EXIT BACK

Top

Greenwich Mean Time
Date
Celestial Body
DR Latitude
DR Longitude
Azimuth
Altitude

2) Course to Steer and Speed Made Good

PILOT2 - CtoStr&S MG	
COmg	95°00'.0
SPD	12.0 kn
SET	170°00'.0
DRFT	2.5 kn
CO	83°23'.5
SPDmg	12.4 kn

EXIT BACK

Top

Course to make good
Speed through water
Set
Drift
Course to steer
Speed made good

Line of Position

ASTRO.NAV - LOP	
LATdr	31°20'.0 N
LONdr	138°14'.5 W
DEC	18°09'.5 S
GHA	83°33'.3
AZ	125°26'.3
ALTc	17°53'.1

EXIT BACK

Top

DR Latitude
DR Longitude
Declination
Greenwich Hour Angle
Azimuth
Altitude



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