



■ NMEA Out/Mapping with EZ-Guide and FM Screens.

1/05/2012



# Mapping with antenna/receiver EZ Guide/FM



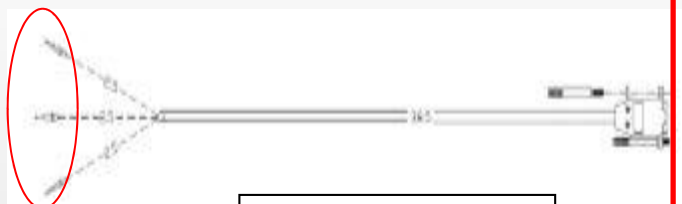
Take the GGA/VTG output from an EZ Guide Plus/250/500/FM-750/FM-1000 used as Lightbar or for EZ steer as antenna-input for mapping on combines

EZ Guide 500  
EZ Guide Plus

EZ Guide 250



Standard EZ250 cable



CNH PN **73321231**  
Cable ADD-ON 9  
pin RS 232

FM 750 / FM1000

Use cable ZTN67091 (display to serial DE9)



**87297613**  
Null modem cable



**87382742**  
SWCD to EZ-Guide cable  
(connects to 10 pin connector  
Right Hand Module )



Intelliview Plus II  
(config. GPS to  
RS232B)



Intelliview II  
(config. GPS to  
RS232A)



Intelliview III  
(config. GPS to  
RS232A)



CX/CR  
AF

# Mapping with antenna/receiver EZ-Guide



## How to configure the EZ Guide 250/500/Plus to send out NMEA Messages

**System**

- Display
- Guidance
- GPS**
- Radar Output
- Password Upgrade
- Restore Defaults No

Configure settings relating to the calculation of GPS positions

**GPS**

- GPS Setup
- GPS Limits
- NMEA Output**

Change the settings for output of NMEA messages to an external device

**Port Parameters**

**Continue**

NMEA output port	COM	
Output Rate	1 Hz	
Baud Rate	38400bps	
Data Parity	None	

Press **OK** to accept settings and continue to next screen, or **↵** to change settings

**Message Selection**

**Continue**

GGA	On
VTG	On
GSA	Off
GLL	Off
RMC	Off
ZDA	Off

Press **OK** to accept settings and continue to next screen, or **↵** to change settings

The baud rate and the output rate need to be the same between the EZ-Guide and the implement controller  
(for Intelliview don't take 9600 bps)

**NMEA GGA output decimal places**

**8 decimal places**

Press **↵** or **↶** to choose a menu. Press **OK** to select or **⏪** to go to previous menu.



# Mapping with FM-750

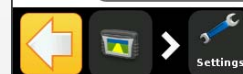
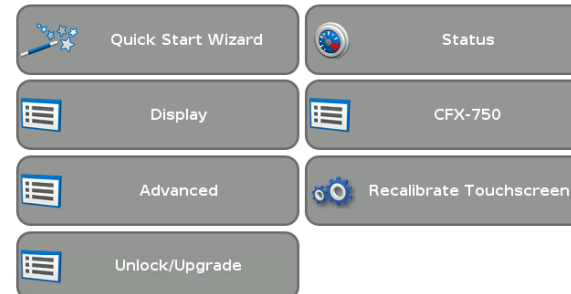


## How to configure the FM750 to send out NMEA Messages

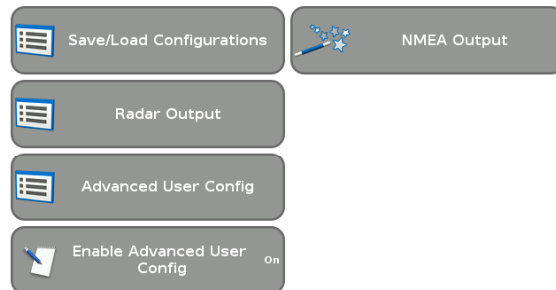
### Settings



### System



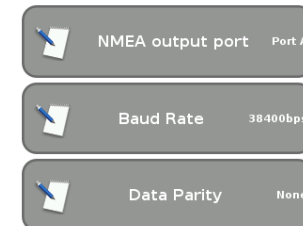
### Advanced



### Port Parameters

Edit settings by pressing each one individually.

Press the green accept button to continue.



# Mapping with FM-750



## How to configure the FM750 to send out NMEA Messages

### Message Selection

Edit settings by pressing each one individually.  
Press the green accept button to continue.

	GGA	1 Hz
	VTG	1 Hz
	GSA	Off
	GLL	Off

Navigation: Back, Cancel, Accept

### NMEA GGA output decimal places

8 decimal places

7	8	9	Max: 8 decimal places
4	5	6	Min: 6 decimal places
1	2	3	
0		C	

Navigation: Back, Cancel, Accept

The baud rate and the output rate need to be the same between the FM750 and the implement controller  
(for Intelliview do not take 9600 bps)

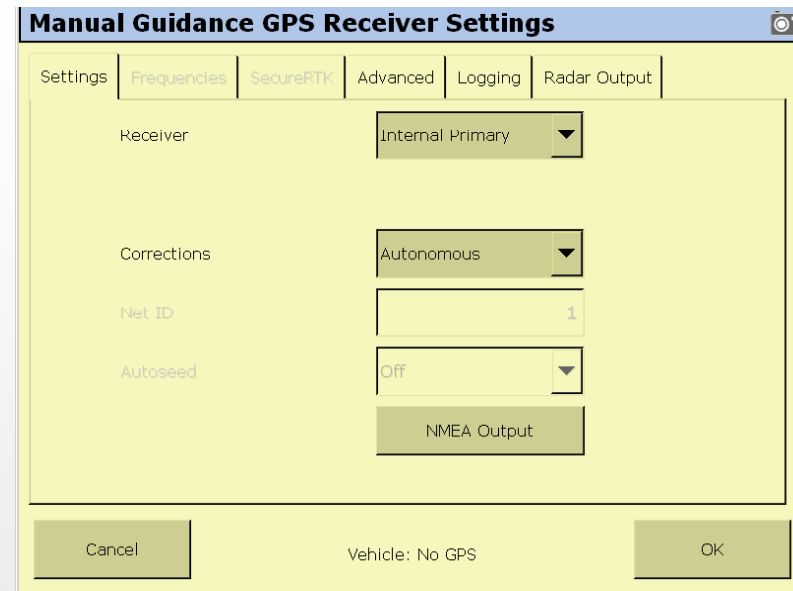
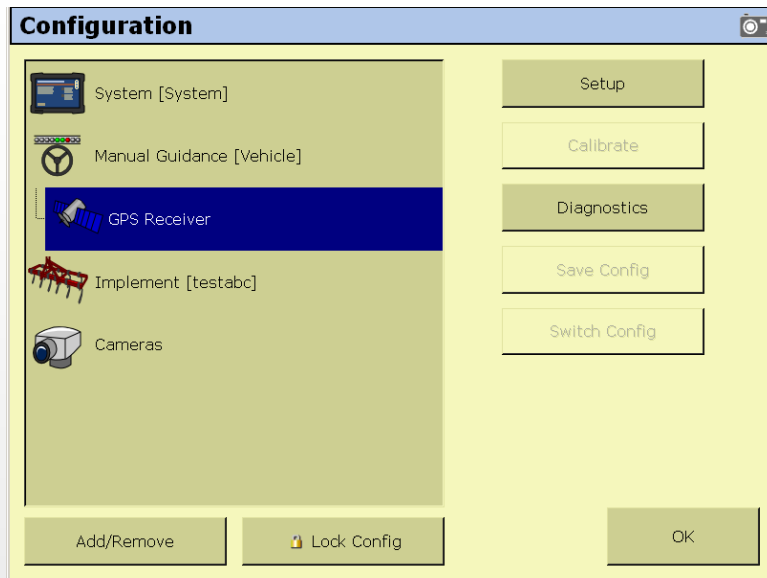
Without NAVII controller:  
=>use cable ZTN67091 (display 12 pin to serial DE9)

With NAVII controller  
=>take output from the NAVII download connector

# Mapping with FM-1000



## How to configure the FM-1000 to send out NMEA Messages



# Mapping with FM-1000



## How to configure the FM1000 to send out NMEA Messages

**NMEA Message Output Settings**

Rate Messages

Message Rate: 1 Hz

Output Port: A (COM2)

Baud Rate: 38400

Maximum GGA Quality: 0

Lat/Lon Precision: 8

Cancel OK

**NMEA Message Output Settings**

Rate Messages

Messages Enabled

GGA	On
GSA	Off
GST	Off
RMC	Off
VTG	On
ZDA	Off

Cancel OK

Remark: setting for FM1000 < v4 software => do configurations through AgRemote (see next slide)

**The baud rate and the output rate need to be the same between the FM-1000 and the implement controller (for Intelliview do not take 9600 bps)**

**Without NAVII controller:**

=>use cable ZTN67091 (display to serial DE9)

**With NAVII controller**

=>take output from the NAVII download connector

# Mapping with FM1000 (no autopilot <version 4.0)



Same configuration as to configure NMEA output on 252 / 262 receiver for external controller.  
(Use port A,B,C or D (FM1000 version 4, <4 =>only port C,D)

How to configure the 252 antenna/receiver to output NMEA Messages :

262/252 => Take the C-Port for output  
Tx pin6 on B-Port  
Rx pin8 on B-Port  
Sign ground pin 5 on B-Port

Configure the receiver  
With AgRemote or RDI

```
Port C Config
Press v to Enter
```

```
CFG: Port C Out: On
Pt-B Flow Is Off
```

```
CFG: I OMR 38k4
8N1 0 NMEA 38k4
```

Baud Rate

(output antenn=input implement controller)

```
CFG: NMEA1 GGA 911
9rs GSA 9st 9sv
```

If gga is in lower case  
put it in upper case

```
CFG: NMEA2 RMC VTG
zda 99k id sm f9
```

If vtg is in lower case  
put it in upper case

```
CFG: NMEA3 xdr mss
d9 t1 ev
```

```
CFG: NMEA out ASAP
TSIP out ASAP
```

```
CFG: 1Hz NMEA
vtg
```

```
CFG: NMEA Quality
Report True Mode
```

NMEA out: 01s for 1Hz output rate vtg in lower case if you want  
ASAP=> =position rate in GPS config =output rate as GGA

```
CFG: Position Rate
5 Hz
```

1/05/2012



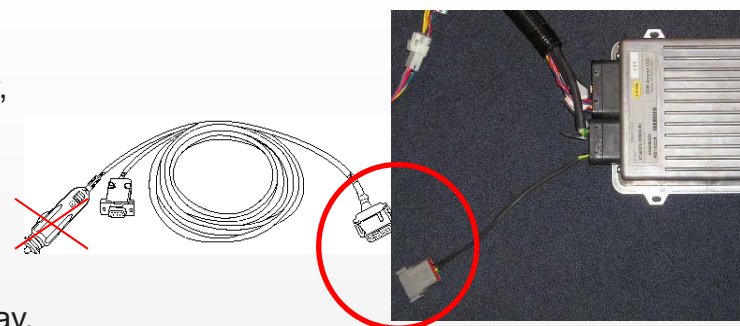


# Mapping with AutoPilot on combine

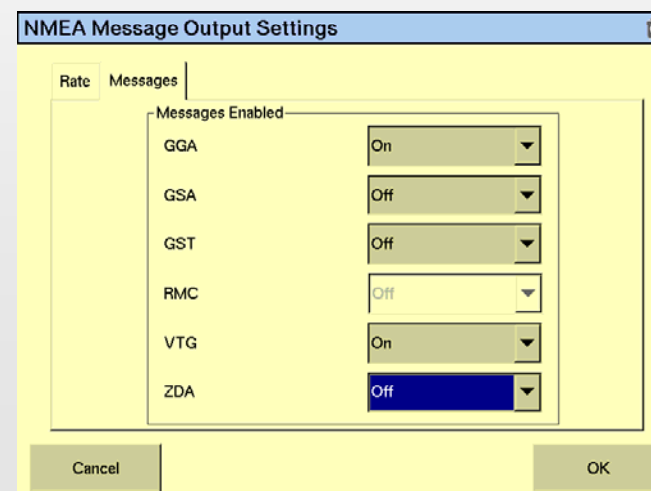
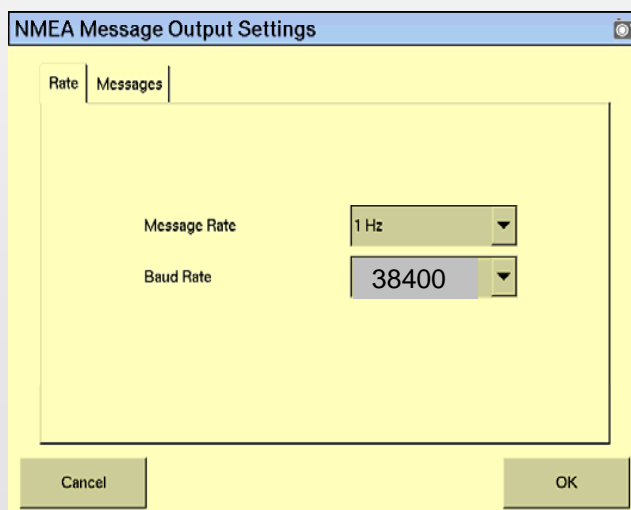


When having AutoPilot there is as well the option to take the NMEA output from the NAVII controller (download connector) (so output not immediately from the display) and to configure it under « GPS receiver » configurations on EZ guide 500 / FM750 / FM1000.

If you have a CNH AGR machine with the 12 pin Deutsch connector, then use download cable: 87298129, to change to a 9 pin DE connector.



Then follow the same as on slide 1 to connect to the combine display.  
(for Intelliview II Plus, the download cable can be inserted immediately in display)



1/05/2012

