

GPS agricultura: Ghidare si masurare suprafete Tel: 0748291638; 0332564100 Fax: 0318161819 Email: verado2003@gmail.com Site: http://www.gps-agricultura.com

Ghid de utilizare Matrix Pro 570 G si Matrix Pro 840 G GPS agricultura: ghidare si masurare suprafete agricole.



#1 Turn Power On

Press the POWER BUTTON to power on the console.

Upon power up, the Matrix Pro will begin its Start Up Sequence.

To turn the power off, press and briefly hold the power button until a confirmation screen acknowledges shut down mode.

WARNING! Wait 30 seconds before restarting the console after powering off.



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USB Port with Rubber Cover Port USB cu protectie de cauciuc

#2 Start New Job or Continue Job

Once the power up sequence has completed, the Home screen will appear with the option to start a new job or continue an existing job.

To start a new job press New Job

To continue the existing job press Continue .

Figure 1-1: MUST HAVE GPS BEFORE STARTING JOB



Figure 1-2: Home Screen with Acquired GPS

14/12/20)10 03:52
Do you want to start a new j Starting a new job will cl	ob data or continue last job? ear the previous job data.
New Job	Continue

RealView Camera Full Screen Video View

RealView Camera Full Screen Video View View video feed(s) and setup cameras without GPS available. Options for Realview Guidance are not available on this screen.

#2 Pornire Lucrare Noua sau Continuare Lucrare

Dupa derularea secventei de pornire, va aparea fereasra Acasa (Home) cu optiunea de demarare a unei noi lucrari sau de continuare a lucrarii existente.

Pentru a porni o noua lucrare apasati: New Job

Pentru a continua lucrarea existenta apasati:

Continue

VERAD

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#4 Go To Unit Setup #4 Setare unitati si reglaje

The Configuration options will be displayed first. Data Management, Console Setting and Tools can be accessed through the side In prima faza vor fi afisate optiunile de configurare. Celelalte optiuni pot fi accesate prin scurtaturile laterale din dreapta tab keys.



Light or Dark Console Screen The console is available in two colour schemes. To change to "dark", press CONSOLE side tab - Press Display Press Color Scheme DOWN arrow 🖤 and select between "Dark" or "Light" colour mode.



#5 Cultural Setup

#5 Setari regionale

- 1. Press CONSOLE side tab . 1. Apasati pe CONSOLA 2. Apasati butonul Cultural
- 2. Press Cultural
- 3. Select from: 3. Selectati din:
 - ► Units defines the system measurements Unitati: defineste sistemul de masurare
 - ► Language 气 defines the system language Limba: defineste limba
 - ► Time Zone Concentration establishes the local time zone. Zona timp: defineste ora
- return to the main Console screen.
- 4. Press RETURN arrow 🕐 or CONSOLE side tab 🔲 to 4. Apasati butonul Reintoarcere 🕐 sau CONSOLA 🔲 pentru a reveni la fereastra principala

Figure 1-3: Cultural Options

Console Settings	0	
Display	Cultural	*
Sound	About	
]
	🔆 💿	



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Console->Cultural		?	
🚥 Units	Metric	₽	*
有 Language	English-UK	I.	
🎨 Time Zone	υτς	J	
			<u> </u>
	N 🔆 🔘		83

#6 Vehicle Setup

- 1. Press CONFIGURATION side tab 🗱 .
- 2. Press Vehicle
- 3. Select from:
 - ► Vehicle Type ¥ selects the type of vehicle that most closely represents your vehicle
 - Antenna Height A sets the height of the antenna from the ground
 - Direction to Boom . sets whether the boom is located behind or in front of the GPS antenna
 - ► Distance to Boom 🐱 defines the distance from the GPS antenna to the boom
- 4. Press RETURN arrow C or CONFIGURATION side tab 🏹 to return to the main Configuration screen.





Config-> Vehicle 23 Vehicle Type Front Wheel 💑 Ant Height 3,50 m Backward 🐔 Dir to Boom 🔏 Dist to Boom 0,00 m -6

- 1. Apasati butonul CONFIGURARE 🔭
- 2. Apasati butonul: Vehicle
- 3. Selectati din:
- Tipul vehiculului selectati tipul vehiculului care corespunde cel mai mult cu vehiculul Dvs
- Inaltimea antenei 🛛 💽 eteaza inaltimea antenei fata de suprafata pamantului
- Directia rampei 💒 👘 seteaza unde se afla rampa (in fata, in spate) fata de antena GPS
- Distanta rampa defineste distanta de la antena GPS pana la rampa

4. Apasati sageata Retu 💣 sau 🛛 butonul CONFIGURARE 🔀 pentru a reveni la pagina principala de configurare



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#7 Setari Implement Figure 1-5: Implement Setup Options **#7 Implement Setup**

When a SmartCable or Section Driver Module (SDM) is not present only a single boom setup is available. Configurations for Overlap, Delay On and Delay Off will not be available, and Number of Sections will be set to one.

- Press CONFIGURATION side tab X.
- Press Implement 2.
- 3. Select from:

Number of Boom Sections A – establishes the number of boom sections Numar sectiuni ale rampei

Guidance Width A – establishes the width between quidelines Distanta de ghidare intre linii

- Spray Width A establishes the width of each boom section for a total spray width Distanta fiecarei sectiuni
- Overlap

Delay On A - establishes the timing for the boom section valves to switch on

Delay Off A - establishes the timing for the boom section valves to switch off

4. Press RETURN arrow C or CONFIGURATION side tab X to return to the main Configuration screen.

NOTE: Press or to switch between Implement setup screens.

#8 AutoSteer Setup #8 Setari Autoghidare

When a Steering Control Module (SCM) is present, AutoSteer options will be available. For detailed setup instructions, refer to your specific FieldPilot or auto steering installation manual or visit www.teejet.com for the full Matrix Pro User Manual, part number 98-05239.

NOTE: An update of your SCM software may also be required when updating an existing Matrix console to Matrix Pro.

SCM Software Version Required

SCM Software Version	Matrix 1.x	Matrix Pro 2.x
1.03	•	
1.04	•	
1.05	•	
10.0		•

Configuration		
Vehicle	Implement	22
AutoSteer	Tilt	
Lightbar	GPS	
Video		
	<u>×</u> ©	8

Config->Implement	e	
Aum Sections	15 👢	
Guidance Width	24,50 m	
Spray Width	25,00 m	: 🚽
]
	<u>*</u> ()	





#9 Go To Guidance Screen #9 Ghidare

Figure 1-15: Vehicle View Guidance

< 0.0 > 6.0 km/h 7.6 ha S 6

Figure 1-16: Field View Guidance



Figure 1-17: RealView Guidance



#10 Choose a Guidance Mode #10 Alegeti modul de ghidare

- 1. Press NAVIGATION & GUIDANCE OPTIONS icon Kento display navigation options. 2. Press GUIDANCE MODE icon 5.
- 3. Select from:
 - Straight AB 55
 - Curved AB Circle Pivot 9

 - Last Pass 100 NextRow
- Figure 1-18: Choose a Guidance Mode



- 1. Apasati pe scurtatura OPTIUNINAVIGARE & GHIDARE
- 2. Apasati scurtatura MOD DE GHIDARE

~

0

en.

 \subset

- 3. Selectati din:
- Linie dreapta AB
- Linie curba AB
- Pivot
- Ultima trecere
- Randul urmator

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#11 Mark A and B Points

To establish a AB guideline:

- Drive to the desired location of Point A .
- Press NAVIGATION & GUIDANCE OPTIONS icon 2. display navigation options.
- While the vehicle is in motion, press MARK A icon 4 3.
- Drive to the desired location of Point B 4.
- Press MARK B icon 🙂 to establish the AB line. 5.
- "Would you like to name this guideline?" 6. Press
 - Yes to enter a name and save the guideline in the console.
 - No to automatically generate a name and save the quideline in the console.
- The console will begin providing navigation information.
- NOTE: The MARK B icon 🙂 is not available for selection (greyed out) until the minimum distance is travelled.
- Use CANCEL MARK icon 1 to cancel the Mark A command and revert to the previous AB guideline (when established).
- To establish additional guidelines, follow the same steps as the initial guideline.

Figure 1-19: Mark A Point



Figure 1-20: Mark B Point



Figure 1-21: Save Guideline



Figure 1-22: Follow Guidance



#11 Marcati punctele A si B

Pentru a crea linia de ghidare:

- 1. Mergeti spre punctul pe care ati dori sa il desemnati ca Punct A 🌑
- 2. Apasati butonul OPTIUNI DE NAVIGARE & GHIDARE
- 3. Din mers (fara a opri) apasati butonul 👘
- 4. Continuati deplasarea spre locul unde doriti sa stabilit Punctul B 🔵
- 5. Apasati butonul 😱 pentru a terminarea crearii liniei AB
- 6. Pe ecran va aparea mesajul « Doriti sa dati o denumire liniei create? »
- Apasati butonul Da (Yes) daca dori sa ii dati o denulire liniei recent create
- Apasati butonul Nu (No) pentur generare automata si salvare a liniei

distanta minima (de regula 20-30 metri)

Folositi butonul pentru a stege punctul A si a reveni la linia AB definita anterior (daca este cazul)



- Remarca: Butonul **W** va ramane inactiv pana cand nu veti parcurge o

INFORMATION ON GUIDANCE MODES



Straight AB Guidance

Straight AB guidance provides straight line guidance based on A and B reference points. The original A and B point are used to calculate all other parallel guidelines.





Curved AB Guidance

Curved AB Guidance provides guidance along curved lines based on an initial AB reference line. This initial baseline is used to calculate all other guidelines.

- 0 0-	
- @ FFFF	
((^(() →	3
-	



Circle Pivot Guidance

Circle Pivot guidance provides guidance around a central location that radiates inward or outward. It is used for product application in a centre pivot field while being guided along a circular guideline that matches a centre pivot irrigation system radius.

Last Pass Guidance offers true last pass navigation. The

and establish adjacent pass based on that guideline.

console will automatically detect the nearest "applied" guideline







NextRow Guidance

Last Pass Guidance

NextRow Guidance indicates where the NextRow is located and provides guidance at row ends to the next adjacent row. When the operator marks the end of the row and begins turning to the next row, a Straight AB guidance line is provided in the next row. When the vehicle is in the NextRow guidance is turned off.







No Guidance

No Guidance turns off guidance.



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Guidance Options

Guidelines	
	Mark A Marks the first point of the guideline.
B	Mark B Marks the end point of the guideline. Greyed = minimum distance has not been traveled.
Ø	Cancel Mark A. Cancels the Mark A process. Reverts to previous AB guideline (when established).
B	NextRow Mark B 🛑. Marks the end point of the row.
A	Azimuth Degree Establishes a straight guideline measured by degrees clockwise from a north base line. North = 0, East = 90, South = 180, West = 270.
A	A+ Nudge. Shifts the existing guideline to the vehicle's current position.
-)	Next Straight AB or Azimuth Degree Guideline. Shows the next straight guideline saved in the current job.
→\$	Next Curved AB Guideline. Shows the next Curved AB guideline saved in the current job.
Θ	Next Circle Pivot Guideline. Shows the next Circle Pivot AB guideline saved in the current job.
	Curved Lookahead. Provides an indication of where the current steering will take the vehicle using a 'pointer' as guidance

Return to Point	
	Mark Point Establishes a point at the vehicle location. Greyed = GPS is unavailable.
G	Return to Point. Provides distance back to an established point. (Switch to Vehicle View to provide navigation back to an established point.)
	Cancel Point. Deletes the Marked Point.

Boundaries	
	Mark Boundary. Establishes application area and determines no apply zones. Boundary is established to the outside of an applied pass. Greyed = GPS is unavailable.
8	Finish Boundary. Finalizes boundary process. Boundaries can also be closed by travelling to within a swath width of the starting point. Greyed = minimum distance has not been traveled.
G	Cancel Boundary. Cancels the new mark boundary process. Reverts to previous boundary (when established).
G	Delete Boundary. Deletes all established boundaries from current job.

BoomPilot



BoomPilot. Selects BoomPilot mode. Greyed = GPS is unavailable.

RealView Guidance Options

0	Video Camera Select. Selects one of up to eight camera views if a Video Selection Module (VSM) is attached.
00	Split Camera View. Selects one of two sets of four camera inputs (A/B/C/D or E/F/G/H) to divide the screen into four separate video feeds.
×0	Guidance Over Video Setup. Access to turn on Guidance Over Video or Steering Angle and adjust guidelines.
	Guidance Over Video. Places three-dimensional guidelines over the video feed for navigational assistance.
	Steering Angle. Displays the direction in which the steering wheel needs to be adjusted.
	Up & Down Icons. Used to adjust the guidance lines to match the camera's view.







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A+ Nudge Feature

To adjust a AB guideline to your current location:

- 1. Press NAVIGATION & GUIDANCE OPTIONS icon Set to display navigation options.
- 2. Press A+ NUDGE icon 🔇 to adjust the guideline to the current location.

Azimuth Degree

To establish the azimuth guideline:

- 1. Press NAVIGATION & GUIDANCE OPTIONS icon Kento display navigation options.
- Press AZIMUTH icon I to enter azimuth degree.
- Use the entry screen to establish the Azimuth degree. 3.
- 4. Press:
 - Accept it is save the settings
 - Cancel 3 to leave the keypad without saving
- 5. "Would you like to name this guideline?" Press
 - Yes to enter a name and save the guideline.
 - No to automatically generate a name.

The console will begin providing navigation information.

To establish additional azimuth guidelines, follow the same steps as the initial azimuth guideline.

Figure 1-6: Azimuth Degree



Figure 1-7: Save Guideline



Figure 1-8: Follow Guidance





Field Boundary

To establish a field boundary:

- 1. Drive to a desired location at the perimetre of the field/ area.
- 2. Press NAVIGATION & GUIDANCE OPTIONS icon Con to display navigation options.
- 3. While the vehicle is in motion, press BOUNDARY icon 🗔.
- Travel the perimetre of the field/area. 4.
- Finish boundary: 5.
 - Travel to within one swath width of the starting point. The boundary will close automatically (the white guideline will turn black).

Press BOUNDARY FINISH icon 100. A straight line will complete the boundary between your current location and the starting point.

- 6. Press:
 - Yes to save the boundary.
 - No to delete the boundary.

Figure 1-9: Boundary in Progress



NOTE: On the external or initial boundary, the BOUNDARY FINISH icon 💹 is not available for selection (greyed out) until the minimum distance is travelled (five-times the swath width).

To create an interior boundary, follow the same steps as the initial boundary.

Figure 1-10: Save Boundary - Field View



Figure 1-11: Boundaries Complete



If a swath was applied while creating an external or initial boundary, the boundary line will be to the exterior of the applied swath. If a swath was applied while creating an interior or additional boundary, the boundary line will be to the interior of the applied swath.

Use CANCEL BOUNDARY icon Concel the new field boundary process and revert to the previous boundary (when established).

Use DELETE BOUNDARY icon 💁 to delete all field boundaries for the current job.

In correspondence to your current location, the IN BOUNDARY icon (or OUT BOUNDARY icon 😨 is displayed on the Status Bar once the boundary is established.





To mark a return point:

- 1. Drive to the desired location of Return Point
- 2. Press NAVIGATION & GUIDANCE OPTIONS icon Set to display navigation options.
- 3. Press ADD POINT icon 🐻.

Figure 1-12: Return Point Established - Vehicle View



To show distance and guidance to the established point:

- 1. Press NAVIGATION & GUIDANCE OPTIONS icon Control to display navigation options.
- 2. Press the RETURN TO POINT icon 5.

Use CANCEL RETURN TO POINT icon to delete the established point.

🕣 🥌 🕒 Next Guideline

To show other saved guidelines:

- 1. Press NAVIGATION & GUIDANCE OPTIONS icon Conton display navigation options.
- 2. Press NEXT GUIDELINE icon 🕑 🥌 🕒.

Figure 1-13: Next Guideline



To view which guideline is active, press the Guidance Mode icon on the Status Bar.

Figure 1-14: View Which Guideline is Active



